Appendix B
Laboratory Reports
(On CD)

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

March 16, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/08/2011
Group Number: 1232079
SDG: DE077
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-048-SA5A-SB-3.0-4.0 Soil	6200286
SL-049-SA5A-SB-2.0-3.0 Soil	6200287
SL-160-SA5B-SB-4.0-5.0 Soil	6200288
SL-161-SA5B-SB-4.0-5.0 Soil	6200289
SL-162-SA5B-SB-4.0-5.0 Soil	6200290
SL-163-SA5B-SB-3.5-4.5 Soil	6200291
TB-020711 Water	6200292

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

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Erik J. Frederiksen
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200286
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL048 SDG#: DE077-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0	0.91
06192	Benzene	71-43-2	0.1	U	0.1	4.0	0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0	0.91
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0	0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0	0.91
06192	Bromoform	75-25-2	0.40	U	0.40	4.0	0.91
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0	0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0	0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0	0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0	0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0	0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0	0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0	0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0	0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0	0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.0	0.91
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0	0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0	0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0	0.91
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0	0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0	0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0	0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0	0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0	0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0	0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0	0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0	0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0	0.91
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0	0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0	0.91
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0	0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0	0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0	0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0	0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0	0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0	0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0	0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0	0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0	0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0	0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.0	0.91
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0	0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0	0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0	0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0	0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0	0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0	0.91
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0	0.91
06192	Methylene Chloride	75-09-2	1.3	J	0.24	4.0	0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0	0.91

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

Sample Description: SL-048-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200286
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL048 SDG#: DE077-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0	0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0	0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0	0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0	0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.0	0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0	0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0	0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0	0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0	0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0	0.91
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0	0.91
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0	0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0	0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0	0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0	0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0	0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0	0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	22.98
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

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

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SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200286
LLI Group # 1232079
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Collected: 02/07/2011 12:28

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL048 SDG#: DE077-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1

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

Sample Description: SL-048-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
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LLI Sample # SW 6200286
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SL048 SDG#: DE077-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.94	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.41	21.5	1
07914	Boron	7440-42-8	0.958	U	0.958	5.38	1
01650	Calcium	7440-70-2	2,610		6.60	21.5	1
01654	Iron	7439-89-6	22,700		5.07	21.5	1
01656	Lithium	7439-93-2	21.5		0.24	2.2	1
01657	Magnesium	7439-95-4	5,580		2.73	10.8	1
06958	Manganese	7439-96-5	250		0.0839	0.538	1
10145	Phosphorus	7723-14-0	378		0.603	10.8	1
01662	Potassium	7440-09-7	1,960		19.4	53.8	1
01667	Sodium	7440-23-5	102	J	40.1	108	1
07968	Strontium	7440-24-6	18.6		0.0667	0.538	1
06969	Tin	7440-31-5	2.45	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,170		0.409	1.08	1
10146	Zirconium	7440-67-7	2.09	J	0.904	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.147	J	0.0659	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.33		0.0878	0.439	2
06126	Barium	7440-39-3	57.3		0.119	0.439	2
06127	Beryllium	7440-41-7	0.472		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.0580	J	0.0439	0.110	2
06131	Chromium	7440-47-3	24.3		0.132	0.439	2
06132	Cobalt	7440-48-4	6.72		0.0220	0.110	2
06133	Copper	7440-50-8	8.40		0.0724	0.439	2
06135	Lead	7439-92-1	5.03		0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.581		0.0549	0.110	2

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

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SL048 SDG#: DE077-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	16.3		0.110	0.439	2
06141	Selenium	7782-49-2	0.146	J	0.0439	0.439	2
06142	Silver	7440-22-4	0.0191	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.276		0.0329	0.110	2
06148	Vanadium	7440-62-2	42.0		0.0241	0.110	2
06149	Zinc	7440-66-6	51.1		0.615	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	556		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.39		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-048-SA5A-SB-3.5.

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

Sample Description: **SL-048-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200286
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL048 SDG#: DE077-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110391AA	02/08/2011 19:15	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110392AA	02/08/2011 22:24	Sara E Johnson	22.98
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:22	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:41	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103923655	02/08/2011 18:19	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 09:43	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11041SLE026	02/11/2011 09:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11041SLE026	02/10/2011 18:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 19:03	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/14/2011 10:55	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 16:31	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 16:31	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:10	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 16:31	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 16:31	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2

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

Sample Description: **SL-048-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200286
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL048 SDG#: DE077-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 12:52	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 04:51	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 06:37	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-049-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL049 SDG#: DE077-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2	0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1	0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1	0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1	0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1	0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1	0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1	0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2	0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1	0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1	0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1	0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1	0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1	0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1	0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1	0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1	0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1	0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1	0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1	0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1	0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1	0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1	0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1	0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1	0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1	0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1	0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1	0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1	0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1	0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1	0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1	0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1	0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1	0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1	0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1	0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1	0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1	0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1	0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1	0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1	0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1	0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1	0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1	0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2	0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1	0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1	0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1	0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2	0.9
06192	Methylene Chloride	75-09-2	0.82	J	0.24	4.1	0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1	0.9

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

Sample Description: SL-049-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL049 SDG#: DE077-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1	0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1	0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1	0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1	0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.1	0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1	0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1	0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1	0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1	0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1	0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1	0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1	0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1	0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1	0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1	0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1	0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1	0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16	24.04
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

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

Sample Description: SL-049-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL049 SDG#: DE077-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	J	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	2.5		0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.90	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.91	J	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1

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

Sample Description: SL-049-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL049 SDG#: DE077-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.92	J	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,400		5.56	22.1	1
07914	Boron	7440-42-8	0.983	U	0.983	5.52	1
01650	Calcium	7440-70-2	2,390		6.77	22.1	1
01654	Iron	7439-89-6	20,900		5.20	22.1	1
01656	Lithium	7439-93-2	22.8		0.24	2.2	1
01657	Magnesium	7439-95-4	4,610		2.81	11.0	1
06958	Manganese	7439-96-5	331		0.0862	0.552	1
10145	Phosphorus	7723-14-0	517		0.619	11.0	1
01662	Potassium	7440-09-7	3,100		19.9	55.2	1
01667	Sodium	7440-23-5	68.3	J	41.2	110	1
07968	Strontium	7440-24-6	16.6		0.0685	0.552	1
06969	Tin	7440-31-5	2.44	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,120		0.420	1.10	1
10146	Zirconium	7440-67-7	1.72	J	0.928	5.52	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0663	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.02		0.0884	0.442	2
06126	Barium	7440-39-3	90.5		0.119	0.442	2
06127	Beryllium	7440-41-7	0.543		0.0177	0.110	2
06128	Cadmium	7440-43-9	0.125		0.0442	0.110	2
06131	Chromium	7440-47-3	17.8		0.133	0.442	2
06132	Cobalt	7440-48-4	5.60		0.0221	0.110	2
06133	Copper	7440-50-8	9.29		0.0729	0.442	2
06135	Lead	7439-92-1	5.54		0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.594		0.0552	0.110	2

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

Sample Description: SL-049-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL049 SDG#: DE077-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	12.7	0.110	0.442	2
06141	Selenium	7782-49-2	0.110 J	0.0442	0.442	2
06142	Silver	7440-22-4	0.0343 J	0.0133	0.110	2
06145	Thallium	7440-28-0	0.278	0.0331	0.110	2
06148	Vanadium	7440-62-2	33.6	0.0243	0.110	2
06149	Zinc	7440-66-6	57.1	0.619	3.31	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.1	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	539	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.36	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-049-SA5A-SB-2.5.

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

Sample Description: **SL-049-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL049 SDG#: DE077-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110391AA	02/08/2011 21:29	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110392AA	02/08/2011 22:44	Sara E Johnson	24.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103923655	02/08/2011 18:23	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 10:09	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11041SLE026	02/11/2011 11:08	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11041SLE026	02/10/2011 18:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 19:59	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/14/2011 11:11	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 16:45	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:28	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 16:45	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:28	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 16:45	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 16:45	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2

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

Sample Description: **SL-049-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL049 SDG#: DE077-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 13:36	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 05:16	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 06:49	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-160-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL160 SDG#: DE077-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	8.4	U	8.4	10	1.13
06192	Benzene	71-43-2	0.12	U	0.12	5.0	1.13
06192	Bromobenzene	108-86-1	0.16	U	0.16	5.0	1.13
06192	Bromochloromethane	74-97-5	0.41	U	0.41	5.0	1.13
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	5.0	1.13
06192	Bromoform	75-25-2	0.50	U	0.50	5.0	1.13
06192	Bromomethane	74-83-9	0.31	U	0.31	5.0	1.13
06192	2-Butanone	78-93-3	1.5	U	1.5	10	1.13
06192	n-Butylbenzene	104-51-8	0.15	U	0.15	5.0	1.13
06192	sec-Butylbenzene	135-98-8	0.08	U	0.08	5.0	1.13
06192	tert-Butylbenzene	98-06-6	0.20	U	0.20	5.0	1.13
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	5.0	1.13
06192	Chlorobenzene	108-90-7	0.14	U	0.14	5.0	1.13
06192	Chloroethane	75-00-3	0.16	U	0.16	5.0	1.13
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.37	U	0.37	5.0	1.13
06192	Chloroform	67-66-3	0.15	U	0.15	5.0	1.13
06192	Chloromethane	74-87-3	0.41	U	0.41	5.0	1.13
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	5.0	1.13
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	5.0	1.13
06192	Chlorotrifluoroethene	79-38-9	0.62	U	0.62	6.2	1.13
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.87	U	0.87	5.0	1.13
06192	Dibromochloromethane	124-48-1	0.25	U	0.25	5.0	1.13
06192	1,2-Dibromoethane	106-93-4	0.21	U	0.21	5.0	1.13
06192	Dibromomethane	74-95-3	0.30	U	0.30	5.0	1.13
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	5.0	1.13
06192	1,3-Dichlorobenzene	541-73-1	0.15	U	0.15	5.0	1.13
06192	1,4-Dichlorobenzene	106-46-7	0.20	U	0.20	5.0	1.13
06192	Dichlorodifluoromethane	75-71-8	0.15	U	0.15	5.0	1.13
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	5.0	1.13
06192	1,2-Dichloroethane	107-06-2	0.19	U	0.19	5.0	1.13
06192	1,1-Dichloroethene	75-35-4	0.49	U	0.49	5.0	1.13
06192	cis-1,2-Dichloroethene	156-59-2	0.24	U	0.24	5.0	1.13
06192	trans-1,2-Dichloroethene	156-60-5	0.15	U	0.15	5.0	1.13
06192	1,2-Dichloropropane	78-87-5	0.21	U	0.21	5.0	1.13
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	5.0	1.13
06192	2,2-Dichloropropane	594-20-7	0.21	U	0.21	5.0	1.13
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	5.0	1.13
06192	cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.0	1.13
06192	trans-1,3-Dichloropropene	10061-02-6	0.21	U	0.21	5.0	1.13
06192	Ethylbenzene	100-41-4	0.08	U	0.08	5.0	1.13
06192	Freon 113	76-13-1	0.14	U	0.14	5.0	1.13
06192	Freon 133a	75-88-7	0.62	U	0.62	6.2	1.13
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	5.0	1.13
06192	2-Hexanone	591-78-6	2.0	U	2.0	10	1.13
06192	Isopropylbenzene	98-82-8	0.08	U	0.08	5.0	1.13
06192	p-Isopropyltoluene	99-87-6	0.14	U	0.14	5.0	1.13
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26	U	0.26	5.0	1.13
06192	4-Methyl-2-pentanone	108-10-1	0.49	U	0.49	10	1.13
06192	Methylene Chloride	75-09-2	0.55	J	0.30	5.0	1.13
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	5.0	1.13

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

Sample Description: SL-160-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL160 SDG#: DE077-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	5.0	1.13
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.14	U	0.14	5.0	1.13
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.29	U	0.29	5.0	1.13
06192	Tetrachloroethene	127-18-4	0.25	U	0.25	5.0	1.13
06192	Toluene	108-88-3	0.1	U	0.1	5.0	1.13
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	5.0	1.13
06192	1,2,4-Trichlorobenzene	120-82-1	0.23	U	0.23	5.0	1.13
06192	1,1,1-Trichloroethane	71-55-6	0.25	U	0.25	5.0	1.13
06192	1,1,2-Trichloroethane	79-00-5	0.34	U	0.34	5.0	1.13
06192	Trichloroethene	79-01-6	0.19	U	0.19	5.0	1.13
06192	Trichlorofluoromethane	75-69-4	0.36	U	0.36	5.0	1.13
06192	1,2,3-Trichloropropane	96-18-4	0.41	U	0.41	5.0	1.13
06192	1,2,4-Trimethylbenzene	95-63-6	0.50	U	0.50	5.0	1.13
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	5.0	1.13
06192	Vinyl Chloride	75-01-4	0.25	U	0.25	5.0	1.13
06192	m+p-Xylene	179601-23-1	0.21	U	0.21	5.0	1.13
06192	o-Xylene	95-47-6	0.21	U	0.21	5.0	1.13
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.7	U	6.7	20	30.27
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

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

Sample Description: SL-160-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL160 SDG#: DE077-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.40	J	0.37	1.8	1
10138	Anthracene	120-12-7	1.1	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.7	J	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	7.0	J	6.6	20	1
10138	Chrysene	218-01-9	1.4	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	1.4	J	0.74	1.8	1
10138	Fluorene	86-73-7	0.79	J	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1

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

Sample Description: SL-160-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL160 SDG#: DE077-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.90	J	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Phenanthrene	85-01-8	1.4	J	0.74	1.8	1
10138	Pyrene	129-00-0	1.5	J	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.2	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	2.3		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		5.44	21.6	1
07914	Boron	7440-42-8	0.963	U	0.963	5.41	1
01650	Calcium	7440-70-2	2,400		6.63	21.6	1
01654	Iron	7439-89-6	20,500		5.10	21.6	1
01656	Lithium	7439-93-2	21.9		0.24	2.2	1
01657	Magnesium	7439-95-4	4,150		2.75	10.8	1
06958	Manganese	7439-96-5	200		0.0844	0.541	1
10145	Phosphorus	7723-14-0	224		0.606	10.8	1
01662	Potassium	7440-09-7	1,620		19.5	54.1	1
01667	Sodium	7440-23-5	127		40.4	108	1
07968	Strontium	7440-24-6	18.2		0.0671	0.541	1
06969	Tin	7440-31-5	2.45	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,060		0.411	1.08	1
10146	Zirconium	7440-67-7	2.18	J	0.909	5.41	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.126	J	0.0656	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.96		0.0874	0.437	2
06126	Barium	7440-39-3	76.2		0.118	0.437	2
06127	Beryllium	7440-41-7	0.586		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.117		0.0437	0.109	2
06131	Chromium	7440-47-3	20.9		0.131	0.437	2

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

Sample Description: SL-160-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL160 SDG#: DE077-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	4.44	0.0219	0.109	2
06133	Copper	7440-50-8	7.54	0.0721	0.437	2
06135	Lead	7439-92-1	5.45	0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.268	0.0546	0.109	2
06139	Nickel	7440-02-0	13.7	0.109	0.437	2
06141	Selenium	7782-49-2	0.0841 J	0.0437	0.437	2
06142	Silver	7440-22-4	0.767	0.0131	0.109	2
06145	Thallium	7440-28-0	0.233	0.0328	0.109	2
06148	Vanadium	7440-62-2	35.0	0.0240	0.109	2
06149	Zinc	7440-66-6	44.6	0.612	3.28	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	553	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.74	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-160-SA5B-SB-4.5.

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

Sample Description: **SL-160-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL160 SDG#: DE077-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110391AA	02/08/2011 20:00	Laura M Krieger	1.13
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110392AA	02/08/2011 23:04	Sara E Johnson	30.27
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:29	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103923655	02/08/2011 18:27	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 10:36	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11041SLE026	02/11/2011 11:40	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11041SLE026	02/10/2011 18:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 20:18	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/09/2011 03:55	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 16:47	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:31	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 16:47	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:31	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 16:47	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 16:47	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL160 SDG#: DE077-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 13:51	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 05:40	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11043243201A	02/16/2011 07:08	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-161-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL161 SDG#: DE077-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.6	U	7.6	9.0	1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.5	1.02
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5	1.02
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5	1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5	1.02
06192	Bromoform	75-25-2	0.45	U	0.45	4.5	1.02
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5	1.02
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0	1.02
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5	1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5	1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5	1.02
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5	1.02
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5	1.02
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5	1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5	1.02
06192	Chloroform	67-66-3	0.14	U	0.14	4.5	1.02
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5	1.02
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5	1.02
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5	1.02
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7	1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5	1.02
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5	1.02
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5	1.02
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5	1.02
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5	1.02
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5	1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5	1.02
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5	1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5	1.02
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5	1.02
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5	1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5	1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5	1.02
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5	1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5	1.02
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5	1.02
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5	1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5	1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5	1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5	1.02
06192	Freon 113	76-13-1	0.12	U	0.12	4.5	1.02
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7	1.02
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5	1.02
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0	1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5	1.02
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5	1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5	1.02
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0	1.02
06192	Methylene Chloride	75-09-2	0.63	J	0.27	4.5	1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5	1.02

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

Sample Description: SL-161-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL161 SDG#: DE077-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5	1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5	1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5	1.02
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5	1.02
06192	Toluene	108-88-3	0.09	U	0.09	4.5	1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5	1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5	1.02
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5	1.02
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5	1.02
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5	1.02
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5	1.02
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5	1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5	1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5	1.02
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5	1.02
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5	1.02
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5	1.02
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16	24.8
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

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

Sample Description: SL-161-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL161 SDG#: DE077-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.59	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.88	J	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.76	J	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.94	J	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	1.0	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.86	J	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1

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

Sample Description: SL-161-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL161 SDG#: DE077-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	1.1	J	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Phenanthrene	85-01-8	0.93	J	0.74	1.8	1
10138	Pyrene	129-00-0	1.1	J	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	3.3	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	9.3		0.37	1.9	1
10225	PCB-1260	11096-82-5	3.1		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,900		5.46	21.7	1
07914	Boron	7440-42-8	0.965	U	0.965	5.42	1
01650	Calcium	7440-70-2	2,510		6.65	21.7	1
01654	Iron	7439-89-6	27,400		5.11	21.7	1
01656	Lithium	7439-93-2	27.1		0.24	2.2	1
01657	Magnesium	7439-95-4	4,610		2.75	10.8	1
06958	Manganese	7439-96-5	341		0.0846	0.542	1
10145	Phosphorus	7723-14-0	255		0.607	10.8	1
01662	Potassium	7440-09-7	1,860		19.5	54.2	1
01667	Sodium	7440-23-5	140		40.5	108	1
07968	Strontium	7440-24-6	22.0		0.0672	0.542	1
06969	Tin	7440-31-5	2.70	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,280		0.412	1.08	1
10146	Zirconium	7440-67-7	2.64	J	0.911	5.42	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0919	J	0.0638	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.03		0.0851	0.425	2
06126	Barium	7440-39-3	107		0.115	0.425	2
06127	Beryllium	7440-41-7	0.745		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.105	J	0.0425	0.106	2
06131	Chromium	7440-47-3	21.5		0.128	0.425	2

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

Sample Description: SL-161-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL161 SDG#: DE077-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	6.48	0.0213	0.106	2
06133	Copper	7440-50-8	8.48	0.0702	0.425	2
06135	Lead	7439-92-1	7.45	0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.628	0.0532	0.106	2
06139	Nickel	7440-02-0	13.4	0.106	0.425	2
06141	Selenium	7782-49-2	0.0823 J	0.0425	0.425	2
06142	Silver	7440-22-4	0.873	0.0128	0.106	2
06145	Thallium	7440-28-0	0.235	0.0319	0.106	2
06148	Vanadium	7440-62-2	40.5	0.0234	0.106	2
06149	Zinc	7440-66-6	47.4	0.596	3.19	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	554	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.62	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-161-SA5B-SB-4.5.

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

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

Sample Description: SL-161-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL161 SDG#: DE077-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110391AA	02/08/2011 20:22	Laura M Krieger	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110392AA	02/08/2011 23:24	Sara E Johnson	24.8
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:32	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103923655	02/08/2011 18:30	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 18:51	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11041SLE026	02/11/2011 12:12	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11041SLE026	02/10/2011 18:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 20:36	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 16:55	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:40	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 16:55	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:40	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 16:55	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 16:55	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2

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

Sample Description: **SL-161-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL161 SDG#: DE077-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:45	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 14:06	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 06:04	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 07:14	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-162-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL162 SDG#: DE077-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	8.0	U	8.0	9.6	1.06
06192	Benzene	71-43-2	0.12	U	0.12	4.8	1.06
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.8	1.06
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.8	1.06
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.8	1.06
06192	Bromoform	75-25-2	0.48	U	0.48	4.8	1.06
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8	1.06
06192	2-Butanone	78-93-3	1.5	U	1.5	9.6	1.06
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8	1.06
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8	1.06
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8	1.06
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8	1.06
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8	1.06
06192	Chloroethane	75-00-3	0.16	U	0.16	4.8	1.06
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8	1.06
06192	Chloroform	67-66-3	0.14	U	0.14	4.8	1.06
06192	Chloromethane	74-87-3	0.39	U	0.39	4.8	1.06
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8	1.06
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8	1.06
06192	Chlorotrifluoroethene	79-38-9	0.60	U	0.60	6.0	1.06
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.84	U	0.84	4.8	1.06
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8	1.06
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.8	1.06
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8	1.06
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8	1.06
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8	1.06
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8	1.06
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8	1.06
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8	1.06
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8	1.06
06192	1,1-Dichloroethene	75-35-4	0.47	U	0.47	4.8	1.06
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8	1.06
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8	1.06
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.8	1.06
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.8	1.06
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.8	1.06
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.8	1.06
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8	1.06
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.8	1.06
06192	Ethylbenzene	100-41-4	0.13	J	0.07	4.8	1.06
06192	Freon 113	76-13-1	0.13	U	0.13	4.8	1.06
06192	Freon 133a	75-88-7	0.60	U	0.60	6.0	1.06
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8	1.06
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.6	1.06
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8	1.06
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8	1.06
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8	1.06
06192	4-Methyl-2-pentanone	108-10-1	0.47	U	0.47	9.6	1.06
06192	Methylene Chloride	75-09-2	0.72	J	0.29	4.8	1.06
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8	1.06

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

Sample Description: SL-162-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL162 SDG#: DE077-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.8	1.06
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8	1.06
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.8	1.06
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8	1.06
06192	Toluene	108-88-3	0.1	U	0.1	4.8	1.06
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8	1.06
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.8	1.06
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8	1.06
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.8	1.06
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8	1.06
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.8	1.06
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.8	1.06
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8	1.06
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8	1.06
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8	1.06
06192	m+p-Xylene	179601-23-1	0.46	J	0.20	4.8	1.06
06192	o-Xylene	95-47-6	0.20	U	0.20	4.8	1.06
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17	25
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

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

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL162 SDG#: DE077-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.81	J	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.61	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1

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

Sample Description: SL-162-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL162 SDG#: DE077-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	1.4	J	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	2.4	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	4.5		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,700		5.51	21.9	1
07914	Boron	7440-42-8	0.974	U	0.974	5.47	1
01650	Calcium	7440-70-2	4,140		6.71	21.9	1
01654	Iron	7439-89-6	27,700		5.16	21.9	1
01656	Lithium	7439-93-2	31.6		0.24	2.2	1
01657	Magnesium	7439-95-4	5,420		2.78	10.9	1
06958	Manganese	7439-96-5	199		0.0854	0.547	1
10145	Phosphorus	7723-14-0	183		0.613	10.9	1
01662	Potassium	7440-09-7	1,460		19.7	54.7	1
01667	Sodium	7440-23-5	281		40.8	109	1
07968	Strontium	7440-24-6	30.1		0.0679	0.547	1
06969	Tin	7440-31-5	2.85	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,310		0.416	1.09	1
10146	Zirconium	7440-67-7	2.96	J	0.919	5.47	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.121	J	0.0650	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.79		0.0867	0.434	2
06126	Barium	7440-39-3	81.3		0.117	0.434	2
06127	Beryllium	7440-41-7	0.653		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.172		0.0434	0.108	2
06131	Chromium	7440-47-3	24.3		0.130	0.434	2
06132	Cobalt	7440-48-4	4.29		0.0217	0.108	2
06133	Copper	7440-50-8	9.81		0.0715	0.434	2
06135	Lead	7439-92-1	6.56		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.371		0.0542	0.108	2

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

Sample Description: SL-162-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL162 SDG#: DE077-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	13.5	0.108	0.434	2
06141	Selenium	7782-49-2	0.0529 J	0.0434	0.434	2
06142	Silver	7440-22-4	3.05	0.0130	0.108	2
06145	Thallium	7440-28-0	0.230	0.0325	0.108	2
06148	Vanadium	7440-62-2	39.0	0.0238	0.108	2
06149	Zinc	7440-66-6	50.4	0.607	3.25	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0122 J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29 J	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	567	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.72	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-162-SA5B-SB-4.5.

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

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL162 SDG#: DE077-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110391AA	02/08/2011 20:44	Laura M Krieger	1.06
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110392AA	02/08/2011 23:44	Sara E Johnson	25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:36	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103923655	02/08/2011 18:34	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 19:18	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11041SLE026	02/11/2011 12:43	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11041SLE026	02/10/2011 18:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 20:55	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 16:57	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:43	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 16:57	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:43	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 16:57	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 16:57	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL162 SDG#: DE077-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 14:20	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202B	02/22/2011 06:28	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11043243201A	02/16/2011 07:33	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202B	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-163-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL163 SDG#: DE077-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	8.2	U	8.2	9.8	1.14
06192	Benzene	71-43-2	0.12	U	0.12	4.9	1.14
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.9	1.14
06192	Bromochloromethane	74-97-5	0.41	U	0.41	4.9	1.14
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.9	1.14
06192	Bromoform	75-25-2	0.49	U	0.49	4.9	1.14
06192	Bromomethane	74-83-9	0.31	U	0.31	4.9	1.14
06192	2-Butanone	78-93-3	1.5	U	1.5	9.8	1.14
06192	n-Butylbenzene	104-51-8	0.15	U	0.15	4.9	1.14
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.9	1.14
06192	tert-Butylbenzene	98-06-6	0.20	U	0.20	4.9	1.14
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.9	1.14
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.9	1.14
06192	Chloroethane	75-00-3	0.16	U	0.16	4.9	1.14
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.37	U	0.37	4.9	1.14
06192	Chloroform	67-66-3	0.15	U	0.15	4.9	1.14
06192	Chloromethane	74-87-3	0.41	U	0.41	4.9	1.14
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.9	1.14
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.9	1.14
06192	Chlorotrifluoroethene	79-38-9	0.61	U	0.61	6.1	1.14
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.86	U	0.86	4.9	1.14
06192	Dibromochloromethane	124-48-1	0.25	U	0.25	4.9	1.14
06192	1,2-Dibromoethane	106-93-4	0.21	U	0.21	4.9	1.14
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.9	1.14
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.9	1.14
06192	1,3-Dichlorobenzene	541-73-1	0.15	U	0.15	4.9	1.14
06192	1,4-Dichlorobenzene	106-46-7	0.20	U	0.20	4.9	1.14
06192	Dichlorodifluoromethane	75-71-8	0.15	U	0.15	4.9	1.14
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.9	1.14
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.9	1.14
06192	1,1-Dichloroethene	75-35-4	0.48	U	0.48	4.9	1.14
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.9	1.14
06192	trans-1,2-Dichloroethene	156-60-5	0.15	U	0.15	4.9	1.14
06192	1,2-Dichloropropane	78-87-5	0.21	U	0.21	4.9	1.14
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.9	1.14
06192	2,2-Dichloropropane	594-20-7	0.21	U	0.21	4.9	1.14
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.9	1.14
06192	cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	4.9	1.14
06192	trans-1,3-Dichloropropene	10061-02-6	0.21	U	0.21	4.9	1.14
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.9	1.14
06192	Freon 113	76-13-1	0.13	U	0.13	4.9	1.14
06192	Freon 133a	75-88-7	0.61	U	0.61	6.1	1.14
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.9	1.14
06192	2-Hexanone	591-78-6	2.0	U	2.0	9.8	1.14
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.9	1.14
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.9	1.14
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26	U	0.26	4.9	1.14
06192	4-Methyl-2-pentanone	108-10-1	0.48	U	0.48	9.8	1.14
06192	Methylene Chloride	75-09-2	0.75	J	0.29	4.9	1.14
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	4.9	1.14

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

Sample Description: SL-163-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL163 SDG#: DE077-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.9	1.14
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.9	1.14
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.9	1.14
06192	Tetrachloroethene	127-18-4	0.25	U	0.25	4.9	1.14
06192	Toluene	108-88-3	0.1	U	0.1	4.9	1.14
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.9	1.14
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.9	1.14
06192	1,1,1-Trichloroethane	71-55-6	0.25	U	0.25	4.9	1.14
06192	1,1,2-Trichloroethane	79-00-5	0.33	U	0.33	4.9	1.14
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.9	1.14
06192	Trichlorofluoromethane	75-69-4	0.36	U	0.36	4.9	1.14
06192	1,2,3-Trichloropropane	96-18-4	0.41	U	0.41	4.9	1.14
06192	1,2,4-Trimethylbenzene	95-63-6	0.49	U	0.49	4.9	1.14
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.9	1.14
06192	Vinyl Chloride	75-01-4	0.25	U	0.25	4.9	1.14
06192	m+p-Xylene	179601-23-1	0.21	U	0.21	4.9	1.14
06192	o-Xylene	95-47-6	0.21	U	0.21	4.9	1.14
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.6	U	6.6	20	30.49
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

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

Sample Description: SL-163-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL163 SDG#: DE077-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.41	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1

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

Sample Description: SL-163-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL163 SDG#: DE077-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.83	J	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	2.1		0.36	1.8	1
10225	PCB-1260	11096-82-5	1.1	J	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,500		5.31	21.1	1
07914	Boron	7440-42-8	0.940	U	0.940	5.28	1
01650	Calcium	7440-70-2	2,410		6.48	21.1	1
01654	Iron	7439-89-6	22,900		4.98	21.1	1
01656	Lithium	7439-93-2	23.0		0.23	2.1	1
01657	Magnesium	7439-95-4	4,270		2.68	10.6	1
06958	Manganese	7439-96-5	248		0.0824	0.528	1
10145	Phosphorus	7723-14-0	214		0.592	10.6	1
01662	Potassium	7440-09-7	1,840		19.0	52.8	1
01667	Sodium	7440-23-5	121		39.4	106	1
07968	Strontium	7440-24-6	21.0		0.0655	0.528	1
06969	Tin	7440-31-5	2.83	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,200		0.401	1.06	1
10146	Zirconium	7440-67-7	2.42	J	0.887	5.28	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0622	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.98		0.0829	0.414	2
06126	Barium	7440-39-3	110		0.112	0.414	2
06127	Beryllium	7440-41-7	0.688		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.149		0.0414	0.104	2
06131	Chromium	7440-47-3	21.9		0.124	0.414	2
06132	Cobalt	7440-48-4	5.51		0.0207	0.104	2
06133	Copper	7440-50-8	8.33		0.0684	0.414	2
06135	Lead	7439-92-1	7.00		0.0108	0.207	2
06138	Molybdenum	7439-98-7	0.567		0.0518	0.104	2

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

Sample Description: SL-163-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL163 SDG#: DE077-06

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	13.5		0.104	0.414	2
06141	Selenium		7782-49-2	0.122	J	0.0414	0.414	2
06142	Silver		7440-22-4	1.84		0.0124	0.104	2
06145	Thallium		7440-28-0	0.223		0.0311	0.104	2
06148	Vanadium		7440-62-2	39.4		0.0228	0.104	2
06149	Zinc		7440-66-6	56.4		0.580	3.11	2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0058	J	0.0030	0.105	1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.2		0.86	1.1	1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.7	U	9.7	32.3	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	1.1		0.22	1.1	1
		ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential		n.a.	542		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.77		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	7.2		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-163-SA5B-SB-4.0.

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

Sample Description: SL-163-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL163 SDG#: DE077-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110391AA	02/08/2011 21:07	Laura M Krieger	1.14
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110392AA	02/09/2011 00:04	Sara E Johnson	30.49
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:19	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103923655	02/08/2011 18:37	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 19:45	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11041SLE026	02/11/2011 13:16	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11041SLE026	02/10/2011 18:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 21:13	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 16:59	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:46	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 16:59	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:46	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 16:59	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 16:59	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2

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

Sample Description: **SL-163-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

SL163 SDG#: DE077-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 14:35	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202B	02/22/2011 08:04	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11043243201A	02/16/2011 07:45	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202B	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

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Analysis Report

Sample Description: **TB-020711 Water**
SSFL Area IV Collocated Soil Sampling
TB-020711

LLI Sample # WW 6200292
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 08:00

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

TB207 SDG#: DE077-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

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

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Analysis Report

Sample Description: **TB-020711 Water**
SSFL Area IV Collocated Soil Sampling
TB-020711

LLI Sample # WW 6200292
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 08:00

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

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

TB207 SDG#: DE077-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110451AA	02/14/2011 10:06	Chelsea B Eastep	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110391AA	02/08/2011 12:22	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110391AA	02/08/2011 12:22	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110451AA	02/14/2011 10:06	Chelsea B Eastep	1

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110391AA	Sample number(s): 6200286-6200291									
Acetone	6.7	U	6.7	8.0	ug/kg	93	99	32-209	6	30
Benzene	0.10	U	0.10	4.0	ug/kg	103	103	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	86	86	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	98	101	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95	94	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	95	96	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	86	87	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	97	94	46-153	4	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	79	99	72-120	22	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	92	90	75-120	3	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	85	82	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	102	102	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102	103	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	84	83	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	79	77	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	101	102	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	86	85	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94	94	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95	94	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	70	70	22-131	0	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	84	89	58-120	6	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	103	105	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	101	101	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99	99	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	79	96	79-120	19	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	92	91	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	94	92	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	74	73	20-120	0	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104	104	80-120	0	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	99	98	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	98	103	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	101	80-120	0	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	96	99	79-120	3	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	100	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	103	101	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103	103	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	97	97	77-120	0	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	85	82	80-120	4	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89	90	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	97	96	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	100	104	61-126	4	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	85	86	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	85	82	57-120	4	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	73	69	45-155	5	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	91	92	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	93	91	75-120	2	30

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	85	87	74-121	2	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	71	71	61-134	0	30
Methylene Chloride	0.44	J	0.24	4.0	ug/kg	90	95	76-124	5	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101	99	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	99	99	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	106	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	101	101	71-123	0	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	100	77-120	1	30
Toluene	0.09	J	0.08	4.0	ug/kg	103	103	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	81	80	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	73	69	68-120	5	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	99	97	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	106	105	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	96	95	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87	93	58-133	7	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	99	97	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	94	93	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	94	92	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	90	89	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103	104	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	89	89	80-120	0	30
Batch number: E110391AA	Sample number(s): 6200292									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	107	102	60-132	5	30
Batch number: E110392AA	Sample number(s): 6200286-6200291									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	118	114	70-130	3	30
Batch number: Y110451AA	Sample number(s): 6200292									
Acetone	6	U	6.	20	ug/l	126	124	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	99	100	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	98	103	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	102	108	80-120	6	30
Bromodichloromethane	1	U	1.	5	ug/l	97	99	80-120	2	30
Bromoform	1	U	1.	5	ug/l	88	94	61-120	7	30
Bromomethane	1	U	1.	5	ug/l	86	81	44-120	5	30
2-Butanone	3	U	3.	10	ug/l	123	126	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	100	97	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	102	99	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	97	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	101	97	75-123	4	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	102	80-120	3	30
Chloroethane	1	U	1.	5	ug/l	79	71	49-129	11	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	114	127	56-129	11	30
Chloroform	0.8	U	0.8	5	ug/l	101	101	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	91	84	60-129	8	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	100	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	100	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	60	60	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	99	108	56-126	9	30
Dibromochloromethane	1	U	1.	5	ug/l	93	101	80-120	8	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	105	80-120	7	30
Dibromomethane	1	U	1.	5	ug/l	98	105	80-120	6	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	97	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	99	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	99	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	83	76	47-120	10	30
1,1-Dichloroethane	1	U	1.	5	ug/l	101	102	79-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	106	111	70-130	5	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	101	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	98	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	102	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	101	109	80-120	7	30
2,2-Dichloropropane	1	U	1.	5	ug/l	100	97	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	103	100	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	96	100	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	97	104	79-120	7	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	99	79-120	0	30
Freon 113	2	U	2.	10	ug/l	108	99	69-128	9	30
Freon 133a	2	U	2.	5	ug/l	90	95	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	90	87	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	115	120	65-136	4	30
Isopropylbenzene	1	U	1.	5	ug/l	99	98	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	98	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	107	76-120	6	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	107	112	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	101	105	80-120	4	30
n-Propylbenzene	1	U	1.	5	ug/l	102	101	80-120	1	30
Styrene	1	U	1.	5	ug/l	96	98	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	95	100	80-120	5	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	107	71-120	7	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	96	96	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	99	101	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	96	80-120	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	95	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	93	91	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	100	106	80-120	6	30
Trichloroethene	1	U	1.	5	ug/l	98	97	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	104	95	64-129	9	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	99	111	80-120	11	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	100	102	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	100	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	95	86	65-125	10	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	98	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	98	99	80-120	1	30
Batch number: 11039SLA026	Sample number(s): 6200286-6200291									
Aniline	170 U		170.	500	ug/kg	62		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	33		15-121		
Benzoic acid	170 U		170.	500	ug/kg	105		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	103		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	87		79-117		
Carbazole	17	U	17.	170	ug/kg	100		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	102		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	31		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	101		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	88		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	90		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	61		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	101		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	108		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	670 U		670.	1,000	ug/kg	75		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	106		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	117		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	89		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	76		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		68-105		
Isophorone	17	U	17.	170	ug/kg	98		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	108		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	100		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	84		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	77		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	104		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	97		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	98		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	98		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	99		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	86		51-117		
Phenol	17	U	17.	170	ug/kg	113*		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	96		78-111		
Batch number: 11041SLE026	Sample number(s): 6200286-6200291									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	114		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	107		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	111		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	130		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	111		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	112		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	111		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	107		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	109		79-121		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	101		64-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	0.67	U	0.67	1.7	ug/kg	104		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	111		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	95		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	93		55-118		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	98		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	116		56-121		
Batch number: 110480040A	Sample number(s): 6200286-6200291									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	75	63	36-106	18	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	89		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	105		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110411026002A	Sample number(s): 6200286-6200291									
Antimony	0.0600	U	0.0600	0.200	mg/kg	97		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	98		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	106		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	110		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	112		82-118		
Copper	0.0662	J	0.0660	0.400	mg/kg	102		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	102		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	105		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	101		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	108		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	104		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	100		78-122		
Batch number: 110411026002B	Sample number(s): 6200286-6200291									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		79-122		
Batch number: 110411026002C	Sample number(s): 6200286-6200291									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	110		78-122		
Batch number: 110411026002D	Sample number(s): 6200286-6200291									
Barium	0.108	U	0.108	0.400	mg/kg	102		79-121		
Batch number: 110415708002	Sample number(s): 6200286-6200291									
Aluminum	5.03	U	5.03	20.0	mg/kg	94		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	96		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	96		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	99		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		81-119		
Phosphorus	0.560	U	0.560	10.0	mg/kg	108		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	93		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Strontium	0.0620	U	0.0620	0.500	mg/kg	107		79-121		
Tin	1.50	J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	90		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	99		80-120		
Batch number: 110415711002	Sample number(s): 6200286-6200291									
Mercury	0.0027	U	0.0027	0.0940	mg/kg	99		88-123		
Batch number: 11043243201A	Sample number(s): 6200286-6200291									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	88		80-120		
Batch number: 11048048202A	Sample number(s): 6200286-6200289									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11048048202B	Sample number(s): 6200290-6200291									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11052621201A	Sample number(s): 6200286-6200291									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11041039401A	Sample number(s): 6200286-6200291									
22a pH by 9045C						100		95-105		
Batch number: 11041182101A	Sample number(s): 6200286-6200291									
32a OR Potential						100		98-102		
Batch number: 11047162401B	Sample number(s): 6200286-6200291									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11039SLA026	Sample number(s): 6200286-6200291 UNSPK: P199403								
Aniline	77	79	35-95	2	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	72	67	10-173	6	30				
Benzyl alcohol	133*	119*	67-115	11	30				
4-Bromophenyl-phenylether	95	82	67-129	15	30				
Carbazole	108	98	64-120	10	30				
4-Chloro-3-methylphenol	124*	113*	76-110	9	30				
4-Chloroaniline	63	72	23-95	13	30				
bis(2-Chloroethoxy)methane	98	95	75-104	3	30				
bis(2-Chloroethyl)ether	106	98	60-116	8	30				
bis(2-Chloroisopropyl)ether	111	101	55-142	10	30				
2-Chloronaphthalene	89	71	50-141	22	30				
2-Chlorophenol	121	114	73-121	6	30				
4-Chlorophenyl-phenylether	98	88	80-109	11	30				
Dibenzofuran	104	95	71-112	8	30				
1,2-Dichlorobenzene	94	90	66-108	4	30				
1,3-Dichlorobenzene	88	83	63-109	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dichlorobenzene	89	84	70-100	5	30				
3,3'-Dichlorobenzidine	64	65	16-119	2	30				
2,4-Dichlorophenol	110	105	78-117	5	30				
2,4-Dimethylphenol	109	101	78-110	7	30				
3,5-Dimethylphenol	126	116	70-130	8	30				
4,6-Dinitro-2-methylphenol	53	52	24-116	3	30				
2,4-Dinitrophenol	34	34	20-143	1	30				
2,4-Dinitrotoluene	113	104	73-113	8	30				
2,6-Dinitrotoluene	110	101	69-123	8	30				
1,2-Diphenylhydrazine	113	98	71-129	14	30				
bis(2-Ethylhexyl)phthalate	130*	119	63-122	9	30				
Hexachlorobenzene	95	82	77-114	15	30				
Hexachlorobutadiene	80	75	62-120	7	30				
Hexachlorocyclopentadiene	56	50	10-153	12	30				
Hexachloroethane	90	78	57-109	14	30				
Isophorone	106*	98	73-102	8	30				
2-Methylphenol	136*	121*	75-111	12	30				
4-Methylphenol	137*	117*	71-111	16	30				
2-Nitroaniline	115	105	67-125	9	30				
3-Nitroaniline	107	101	59-122	6	30				
4-Nitroaniline	91	90	52-112	2	30				
Nitrobenzene	103	99	72-106	3	30				
2-Nitrophenol	102	96	74-115	6	30				
4-Nitrophenol	103	99	54-113	5	30				
N-Nitroso-di-n-propylamine	126*	113	60-116	11	30				
N-Nitrosodiphenylamine	102	88	86-145	14	30				
Di-n-octylphthalate	118	109	56-126	8	30				
Pentachlorophenol	69	67	28-127	3	30				
Phenol	135*	129*	58-126	4	30				
1,2,4-Trichlorobenzene	88	81	72-115	9	30				
2,4,5-Trichlorophenol	106	98	78-109	8	30				
2,4,6-Trichlorophenol	97	91	77-115	6	30				
Batch number: 11041SLE026	Sample number(s): 6200286-6200291 UNSPK: 6200286								
Acenaphthene	92	90	63-105	3	30				
Acenaphthylene	98	92	67-114	6	30				
Anthracene	97	96	60-122	2	30				
Benzo(a)anthracene	112	115	59-128	3	30				
Benzo(a)pyrene	103	117	45-138	12	30				
Benzo(b)fluoranthene	118	146	43-155	21	30				
Benzo(g,h,i)perylene	109	100	33-141	9	30				
Benzo(k)fluoranthene	98	123	42-144	22	30				
Butylbenzylphthalate	127	115	57-173	10	30				
Di-n-butylphthalate	108	113	65-148	4	30				
Chrysene	110	112	48-134	2	30				
Dibenz(a,h)anthracene	109	102	22-133	7	30				
Diethylphthalate	105	109	70-136	5	30				
Dimethylphthalate	106	106	74-118	0	30				
Fluoranthene	99	100	26-166	1	30				
Fluorene	97	94	66-122	3	30				
Indeno(1,2,3-cd)pyrene	108	99	21-143	9	30				
1-Methylnaphthalene	92	89	72-123	3	30				
2-Methylnaphthalene	83	81	64-103	2	30				

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Naphthalene	88	86	61-102	2	30				
N-Nitrosodimethylamine	91	90	48-113	1	30				
Phenanthrene	95	96	12-165	2	30				
Pyrene	112	118	15-153	5	30				
Batch number: 110480040A	Sample number(s): 6200286-6200291 UNSPK: 6200286								
PCB-1016	83	92	29-146	10	50				
PCB-1260	91	105	39-149	14	50				
Batch number: 110411026002A	Sample number(s): 6200286-6200291 UNSPK: 6200286 BKG: 6200286								
Antimony	43*	40*	75-125	9	20	0.134 J	0.136 J	1 (1)	20
Arsenic	108	87	75-125	6	20	6.68	6.79	2	20
Beryllium	88	87	75-125	3	20	0.430	0.450	5 (1)	20
Cadmium	97	99	75-125	1	20	0.0529 J	0.0613 J	15 (1)	20
Chromium	103	95	75-125	3	20	22.2	23.8	7	20
Cobalt	87	87	75-125	2	20	6.12	5.79	6	20
Copper	88	93	75-125	2	20	7.65	7.97	4	20
Lead	104	102	75-125	2	20	4.58	5.01	9	20
Nickel	89	89	75-125	1	20	14.8	14.2	4	20
Silver	98	100	75-125	1	20	0.0174 J	0.0195 J	11 (1)	20
Thallium	86	87	75-125	1	20	0.251	0.219	14 (1)	20
Vanadium	110	120	75-125	1	20	38.2	42.5	11	20
Zinc	99 (2)	117 (2)	75-125	3	20	46.5	46.2	1	20
Batch number: 110411026002B	Sample number(s): 6200286-6200291 UNSPK: 6200286 BKG: 6200286								
Selenium	83	82	75-125	5	20	0.133 J	0.116 J	14 (1)	20
Batch number: 110411026002C	Sample number(s): 6200286-6200291 UNSPK: 6200286 BKG: 6200286								
Molybdenum	98	98	75-125	3	20	0.529	0.541	2	20
Batch number: 110411026002D	Sample number(s): 6200286-6200291 UNSPK: 6200286 BKG: 6200286								
Barium	126 (2)	133 (2)	75-125	0	20	52.2	64.2	21*	20
Batch number: 110415708002	Sample number(s): 6200286-6200291 UNSPK: 6200286 BKG: 6200286								
Aluminum	1344 (2)	1349 (2)	75-125	0	20	14,500	14,400	1	20
Boron	100	99	84-115	3	20	0.873 U	0.881 U	0 (1)	20
Calcium	203 (2)	162 (2)	75-125	6	20	2,370	2,420	2	20
Iron	784 (2)	458 (2)	75-125	2	20	20,700	20,100	3	20
Lithium	100	97	82-114	4	20	19.6	19.8	1	20
Magnesium	351 (2)	177 (2)	75-125	6	20	5,090	4,960	3	20
Manganese	174 (2)	115 (2)	75-125	10	20	228	245	7	20
Phosphorus	139*	96	75-125	10	20	344	342	0	20
Potassium	137*	117	75-125	7	20	1,780	1,780	0	20
Sodium	101	98	75-125	4	20	93.0 J	88.3 J	5 (1)	20
Strontium	100	99	75-115	3	20	17.0	16.7	2	20
Tin	90	90	80-110	2	20	2.24 J	2.42 J	8 (1)	20
Titanium	396 (2)	303 (2)	75-125	7	20	1,060	1,100	3	20
Zirconium	97	96	75-125	4	20	1.91 J	2.35 J	21* (1)	20
Batch number: 110415711002	Sample number(s): 6200286-6200291 UNSPK: 6200286 BKG: 6200286								
Mercury	105	101	65-135	3	20	0.0027 U	0.0027 U	0 (1)	20

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11043243201A	Sample number(s): 6200286-6200291				UNSPK: P199403		BKG: P199403		
3a Cr VI by EPA 7199	92		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11048048202A	Sample number(s): 6200286-6200289				UNSPK: P199403		BKG: P199403		
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11048048202B	Sample number(s): 6200290-6200291				UNSPK: 6200290		BKG: 6200290		
7a Perchlorate EPA 314.0	117		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11052621201A	Sample number(s): 6200286-6200291				UNSPK: 6200286		BKG: 6200286		
11a Anions by 300.0 - Fluoride	54*		80-120			0.97 J	0.80 U	200* (1)	20
Batch number: 11041039401A	Sample number(s): 6200286-6200291				BKG: 6200286				
22a pH by 9045C						6.39	6.31	1	1
Batch number: 11041182101A	Sample number(s): 6200286-6200291				BKG: 6200286				
32a OR Potential						556	560	1	6
Batch number: 11047162401B	Sample number(s): 6200286-6200291				BKG: 6200286				
28a Moisture Content by 160.3						8.9	8.9	0	20

Surrogate Quality Control

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

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110391AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6200286	109	109	99	85
6200287	109	102	111	88
6200288	113	109	99	83
6200289	112	106	94	96
6200290	114	107	100	81
6200291	115	109	101	81
Blank	98	108	100	84
LCS	100	105	108	105
LCSD	101	104	109	106
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110391AA

	Toluene-d8
6200292	95
Blank	96
LCS	96
LCSD	96

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Surrogate Quality Control

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110392AA

	Toluene-d8
6200286	95
6200287	94
6200288	95
6200289	95
6200290	94
6200291	95
Blank	95
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110451AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6200292	99	101	103	98
Blank	99	101	103	98
LCS	100	103	104	101
LCSD	100	101	105	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11039SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6200286	99	96	100	84	81	110
6200287	104	99	97	84	81	100
6200288	95	92	86	78	71	89
6200289	90	90	96	83	93	96
6200290	89	91	96	87	88	92
6200291	97	99	94	92	94	96
Blank	93	96	98	89	89	98
LCS	105	105	103	97	95	99
MS	125*	115	113	98	89	102
MSD	119	110	109	94	84	94
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11041SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6200286	94	90	123
6200287	97	90	113
6200288	95	88	111
6200289	90	83	109
6200290	96	87	110
6200291	95	86	109

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Surrogate Quality Control

Blank	91	85	105
LCS	101	93	115
MS	97	90	112
MSD	95	83	108
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110480040A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6200286	103	109
6200287	103	117
6200288	115	137*
6200289	103	123*
6200290	93	110
6200291	86	111
Blank	96	104
LCS	90	102
LCSD	89	86
MS	82	89
MSD	94	102
Limits:	53-139	45-120

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

13013 1232079 6200286-92

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-048-SA5A-SB-3.0-4.0	2.07.2011	1228	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-048-SA5A-SB-3.5	2.07.2011	1222	SOIL	NONE	4-Encores									X	X												
SL-049-SA5A-SB-2.0-3.0	2.07.2011	1519	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-049-SA5A-SB-2.5	2.07.2011	1515	SOIL	NONE	4-Encores									X	X												
SL-160-SA5B-SB-4.0-5.0	2.07.2011	1023	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-160-SA5B-SB-4.5	2.07.2011	1020	SOIL	NONE	4-Encores									X	X												
SL-161-SA5B-SB-4.0-5.0	2.07.2011	1433	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-161-SA5B-SB-4.5	2.07.2011	1430	SOIL	NONE	4-Encores									X	X												
SL-162-SA5B-SB-4.0-5.0	2.07.2011	1154	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-162-SA5B-SB-4.5	2.07.2011	1149	SOIL	NONE	4-Encores									X	X												
SL-163-SA5B-SB-3.5-4.5	2.07.2011	1536	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-163-SA5B-SB-4.0	2.07.2011	1533	SOIL	NONE	4-Encores									X	X												
TB-020711	2.07.2011	0800	WATER	HCl	3-40 mL VOA VIALS									X	X												TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	02/07/2011 / 17:00	LLI 2/8/11 920	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8695 1432 2902	No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

March 16, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/08/2011
Group Number: 1232085
SDG: DX048
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-048-SA5A-SB-3.0-4.0 Soil	6200343
SL-049-SA5A-SB-2.0-3.0 Soil	6200344
SL-160-SA5B-SB-4.0-5.0 Soil	6200345
SL-161-SA5B-SB-4.0-5.0 Soil	6200346
SL-162-SA5B-SB-4.0-5.0 Soil	6200347
SL-163-SA5B-SB-3.5-4.5 Soil	6200348

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

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-048-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200343
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS048 SDG#: DX048-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

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

Sample Description: **SL-048-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200343
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS048 SDG#: DX048-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0354 JBQ	0.0117	1.10	1
11031	12378-PeCDD	40321-76-4	0.0528 JBQ	0.0127	5.49	1
11031	123478-HxCDD	39227-28-6	0.0314 JQ	0.0143	5.49	1
11031	123678-HxCDD	57653-85-7	0.0847 JBQ	0.0144	5.49	1
11031	123789-HxCDD	19408-74-3	0.0722 JB	0.0136	5.49	1
11031	1234678-HpCDD	35822-46-9	0.923 JB	0.0313	5.49	1
11031	OCDD	3268-87-9	7.72 JB	0.0258	11.0	1
11031	2378-TCDF	51207-31-9	0.0106 U	0.0106	1.10	1
11031	12378-PeCDF	57117-41-6	0.0565 JB	0.00615	5.49	1
11031	23478-PeCDF	57117-31-4	0.0774 JB	0.00659	5.49	1
11031	123478-HxCDF	70648-26-9	0.0458 JBQ	0.0124	5.49	1
11031	123678-HxCDF	57117-44-9	0.0563 JBQ	0.00955	5.49	1
11031	123789-HxCDF	72918-21-9	0.0465 JBQ	0.0114	5.49	1
11031	234678-HxCDF	60851-34-5	0.0783 JB	0.00922	5.49	1
11031	1234678-HpCDF	67562-39-4	0.277 JB	0.0142	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0693 JB	0.0199	5.49	1
11031	OCDF	39001-02-0	0.431 JB	0.0234	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-048-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200343
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS048 SDG#: DX048-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200343
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS048 SDG#: DX048-01

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/24/2011 14:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200344
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS049 SDG#: DX048-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

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

Sample Description: **SL-049-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200344
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS049 SDG#: DX048-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0193 JBQ	0.0122	1.14	1
11031	12378-PeCDD	40321-76-4	0.0350 JBQ	0.0146	5.69	1
11031	123478-HxCDD	39227-28-6	0.0325 JQ	0.0196	5.69	1
11031	123678-HxCDD	57653-85-7	0.112 JB	0.0184	5.69	1
11031	123789-HxCDD	19408-74-3	0.165 JB	0.0154	5.69	1
11031	1234678-HpCDD	35822-46-9	1.75 JB	0.0390	5.69	1
11031	OCDD	3268-87-9	26.9 B	0.0367	11.4	1
11031	2378-TCDF	51207-31-9	0.00978 U	0.00978	1.14	1
11031	12378-PeCDF	57117-41-6	0.0310 JBQ	0.00705	5.69	1
11031	23478-PeCDF	57117-31-4	0.0847 JBQ	0.00717	5.69	1
11031	123478-HxCDF	70648-26-9	0.0982 JB	0.0198	5.69	1
11031	123678-HxCDF	57117-44-9	0.0359 JBQ	0.0140	5.69	1
11031	123789-HxCDF	72918-21-9	0.111 JBQ	0.0109	5.69	1
11031	234678-HxCDF	60851-34-5	0.0583 JBQ	0.00944	5.69	1
11031	1234678-HpCDF	67562-39-4	0.418 JB	0.0207	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0520 JB	0.0192	5.69	1
11031	OCDF	39001-02-0	1.29 JB	0.0324	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	58	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200344
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS049 SDG#: DX048-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200344
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS049 SDG#: DX048-02

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/24/2011 15:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-160-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200345
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS160 SDG#: DX048-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

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

Sample Description: **SL-160-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200345
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS160 SDG#: DX048-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0165 JBQ	0.0143	1.10	1
11031	12378-PeCDD	40321-76-4	0.0715 JBQ	0.0262	5.52	1
11031	123478-HxCDD	39227-28-6	0.0918 J	0.0621	5.52	1
11031	123678-HxCDD	57653-85-7	0.512 JB	0.0598	5.52	1
11031	123789-HxCDD	19408-74-3	0.245 JBQ	0.0533	5.52	1
11031	1234678-HpCDD	35822-46-9	12.0 B	0.0474	5.52	1
11031	OCDD	3268-87-9	121 B	0.0508	11.0	1
11031	2378-TCDF	51207-31-9	0.0272 U	0.0272	1.10	1
11031	12378-PeCDF	57117-41-6	0.0131 JBQ	0.0127	5.52	1
11031	23478-PeCDF	57117-31-4	0.0866 JB	0.0132	5.52	1
11031	123478-HxCDF	70648-26-9	0.227 JBQ	0.0387	5.52	1
11031	123678-HxCDF	57117-44-9	0.120 JBQ	0.0275	5.52	1
11031	123789-HxCDF	72918-21-9	0.0391 JB	0.0247	5.52	1
11031	234678-HxCDF	60851-34-5	0.219 JB	0.0216	5.52	1
11031	1234678-HpCDF	67562-39-4	2.10 JB	0.0274	5.52	1
11031	1234789-HpCDF	55673-89-7	0.290 JBQ	0.0299	5.52	1
11031	OCDF	39001-02-0	4.66 JB	0.0296	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	101	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200345
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS160 SDG#: DX048-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200345
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS160 SDG#: DX048-03

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/24/2011 16:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-161-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200346
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS161 SDG#: DX048-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

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

Sample Description: **SL-161-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200346
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS161 SDG#: DX048-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0344	JQ	0.0184	1.11	1
11031	12378-PeCDD	40321-76-4	0.130	JB	0.0334	5.53	1
11031	123478-HxCDD	39227-28-6	0.246	JB	0.0814	5.53	1
11031	123678-HxCDD	57653-85-7	1.13	JB	0.0822	5.53	1
11031	123789-HxCDD	19408-74-3	0.591	JBQ	0.0746	5.53	1
11031	1234678-HpCDD	35822-46-9	34.1	B	0.0705	5.53	1
11031	OCDD	3268-87-9	388	B	0.0555	11.1	1
11031	2378-TCDF	51207-31-9	0.0746	J	0.0312	1.11	1
11031	12378-PeCDF	57117-41-6	0.0442	JBQ	0.0124	5.53	1
11031	23478-PeCDF	57117-31-4	0.135	JBQ	0.0137	5.53	1
11031	123478-HxCDF	70648-26-9	0.334	JBQ	0.0546	5.53	1
11031	123678-HxCDF	57117-44-9	0.256	JB	0.0386	5.53	1
11031	123789-HxCDF	72918-21-9	0.0743	JBQ	0.0421	5.53	1
11031	234678-HxCDF	60851-34-5	0.329	JB	0.0308	5.53	1
11031	1234678-HpCDF	67562-39-4	4.21	JB	0.0379	5.53	1
11031	1234789-HpCDF	55673-89-7	0.483	JB	0.0539	5.53	1
11031	OCDF	39001-02-0	9.85	JB	0.0409	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	42	26 - 138
13C12-OCDF	30	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-161-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200346
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS161 SDG#: DX048-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-161-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200346
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS161 SDG#: DX048-04

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/06/2011 05:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200347
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS162 SDG#: DX048-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

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

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200347
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS162 SDG#: DX048-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0755	JBQ	0.0114	1.13	1
11031	12378-PeCDD	40321-76-4	0.249	JB	0.0254	5.64	1
11031	123478-HxCDD	39227-28-6	0.481	JB	0.0345	5.64	1
11031	123678-HxCDD	57653-85-7	1.61	JB	0.0353	5.64	1
11031	123789-HxCDD	19408-74-3	0.940	JB	0.0325	5.64	1
11031	1234678-HpCDD	35822-46-9	41.6	B	0.0589	5.64	1
11031	OCDD	3268-87-9	470	B	0.0377	11.3	1
11031	2378-TCDF	51207-31-9	0.175	JBQ	0.0275	1.13	1
11031	12378-PeCDF	57117-41-6	0.168	JBQ	0.0157	5.64	1
11031	23478-PeCDF	57117-31-4	0.303	JB	0.0153	5.64	1
11031	123478-HxCDF	70648-26-9	0.878	JB	0.0471	5.64	1
11031	123678-HxCDF	57117-44-9	0.377	JB	0.0331	5.64	1
11031	123789-HxCDF	72918-21-9	0.175	JBQ	0.0256	5.64	1
11031	234678-HxCDF	60851-34-5	0.728	JB	0.0242	5.64	1
11031	1234678-HpCDF	67562-39-4	6.33	B	0.0248	5.64	1
11031	1234789-HpCDF	55673-89-7	0.827	JB	0.0239	5.64	1
11031	OCDF	39001-02-0	14.6	B	0.0178	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

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Analysis Report

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200347
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS162 SDG#: DX048-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200347
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS162 SDG#: DX048-05

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/08/2011 14:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

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

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Analysis Report

Sample Description: **SL-163-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200348
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS163 SDG#: DX048-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

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

Sample Description: **SL-163-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200348
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS163 SDG#: DX048-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0819	J	0.0117	1.08	1
11031	12378-PeCDD	40321-76-4	0.148	JB	0.0320	5.39	1
11031	123478-HxCDD	39227-28-6	0.394	JB	0.0634	5.39	1
11031	123678-HxCDD	57653-85-7	1.48	JB	0.0627	5.39	1
11031	123789-HxCDD	19408-74-3	0.801	JB	0.0583	5.39	1
11031	1234678-HpCDD	35822-46-9	41.7	B	0.0639	5.39	1
11031	OCDD	3268-87-9	492	B	0.0578	10.8	1
11031	2378-TCDF	51207-31-9	0.145	J	0.0254	1.08	1
11031	12378-PeCDF	57117-41-6	0.0537	JBQ	0.0109	5.39	1
11031	23478-PeCDF	57117-31-4	0.154	JB	0.0122	5.39	1
11031	123478-HxCDF	70648-26-9	0.415	JB	0.0511	5.39	1
11031	123678-HxCDF	57117-44-9	0.290	JB	0.0359	5.39	1
11031	123789-HxCDF	72918-21-9	0.102	JBQ	0.0345	5.39	1
11031	234678-HxCDF	60851-34-5	0.414	JB	0.0277	5.39	1
11031	1234678-HpCDF	67562-39-4	5.47	B	0.0276	5.39	1
11031	1234789-HpCDF	55673-89-7	0.716	JB	0.0338	5.39	1
11031	OCDF	39001-02-0	13.4	B	0.0282	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	48	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

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Analysis Report

Sample Description: **SL-163-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200348
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS163 SDG#: DX048-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-163-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200348
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

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

DS163 SDG#: DX048-06

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/06/2011 06:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232085
Reported: 03/16/11 at 11:40 PM

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11047162401B	Sample number(s): 6200343-6200348								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11049002	Sample number(s): 6200343-6200345								
2378-TCDD	0.0139 J	0.0121	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0159 J	0.0123	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0123 U	0.0123	5.00	ng/kg	98		70-164		
123678-HxCDD	0.0154 J	0.0116	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0248 J	0.00980	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.135 J	0.0131	5.00	ng/kg	95		70-140		
OCDD	0.324 J	0.0199	10.0	ng/kg	93		78-144		
2378-TCDF	0.0103 U	0.0103	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0168 J	0.00620	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0476 J	0.00670	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0290 J	0.0168	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0270 J	0.0111	5.00	ng/kg	94		84-130		
123789-HxCDF	0.0398 J	0.00850	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0418 J	0.00710	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.144 J	0.0105	5.00	ng/kg	94		82-122		
1234789-HpCDF	0.0364 J	0.00950	5.00	ng/kg	94		78-138		
OCDF	0.153 J	0.0183	10.0	ng/kg	95		63-170		
Batch number: 11060001	Sample number(s): 6200346,6200348								
2378-TCDD	0.00920 U	0.00920	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0125 J	0.00930	5.00	ng/kg	106		70-142		
123478-HxCDD	0.0135 J	0.00970	5.00	ng/kg	106		70-164		
123678-HxCDD	0.0102 J	0.00940	5.00	ng/kg	106		76-134		
123789-HxCDD	0.00946 J	0.00850	5.00	ng/kg	105		64-162		
1234678-HpCDD	0.118 J	0.0122	5.00	ng/kg	106		70-140		
OCDD	0.377 J	0.0224	10.0	ng/kg	106		78-144		
2378-TCDF	0.00810 U	0.00810	1.00	ng/kg	117		75-158		
12378-PeCDF	0.0121 J	0.00470	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0394 J	0.00550	5.00	ng/kg	105		68-160		
123478-HxCDF	0.0267 J	0.0110	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0145 J	0.00680	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0364 J	0.00790	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0191 J	0.00560	5.00	ng/kg	106		70-156		
1234678-HpCDF	0.0509 J	0.0114	5.00	ng/kg	104		82-122		
1234789-HpCDF	0.0321 J	0.0184	5.00	ng/kg	107		78-138		
OCDF	0.112 J	0.0230	10.0	ng/kg	106		63-170		
Batch number: 11062001	Sample number(s): 6200347								
2378-TCDD	0.0193 J	0.00990	1.00	ng/kg	85		67-158		

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232085
Reported: 03/16/11 at 11:40 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
12378-PeCDD	0.0406	J	0.00910	5.00	ng/kg	85		70-142		
123478-HxCDD	0.0364	J	0.0108	5.00	ng/kg	84		70-164		
123678-HxCDD	0.0400	J	0.0110	5.00	ng/kg	85		76-134		
123789-HxCDD	0.0571	J	0.0100	5.00	ng/kg	83		64-162		
1234678-HpCDD	0.355	J	0.0134	5.00	ng/kg	83		70-140		
OCDD	0.681	J	0.0139	10.0	ng/kg	83		78-144		
2378-TCDF	0.0236	J	0.00870	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0493	J	0.00670	5.00	ng/kg	83		80-134		
23478-PeCDF	0.149	J	0.00670	5.00	ng/kg	84		68-160		
123478-HxCDF	0.169	J	0.0190	5.00	ng/kg	84		72-134		
123678-HxCDF	0.135	J	0.0156	5.00	ng/kg	84		84-130		
123789-HxCDF	0.107	J	0.0163	5.00	ng/kg	83		78-130		
234678-HxCDF	0.271	J	0.0145	5.00	ng/kg	84		70-156		
1234678-HpCDF	0.917	J	0.0104	5.00	ng/kg	83		82-122		
1234789-HpCDF	0.128	J	0.0133	5.00	ng/kg	83		78-138		
OCDF	0.618	J	0.0127	10.0	ng/kg	82		63-170		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11047162401B	Sample number(s): 6200343-6200348					BKG: P200286			
28a Moisture Content by 160.3						8.9	8.9	0	20
Batch number: 11060001	Sample number(s): 6200346,6200348					UNSPK: P214547			
2378-TCDD	107	108	67-158	1	25				
12378-PeCDD	104	107	70-142	3	25				
123478-HxCDD	104	106	70-164	2	25				
123678-HxCDD	100	109	76-134	8	25				
123789-HxCDD	103	107	64-162	4	25				
1234678-HpCDD	49*	364*	70-140	89*	25				
OCDD	-68 (2)	1254 (2)	78-144	108*	25				
2378-TCDF	110	113	75-158	2	25				
12378-PeCDF	101	103	80-134	2	25				
23478-PeCDF	102	103	68-160	0	25				
123478-HxCDF	104	107	72-134	3	25				
123678-HxCDF	103	105	84-130	2	25				
123789-HxCDF	104	103	78-130	1	25				
234678-HxCDF	102	106	70-156	3	25				
1234678-HpCDF	101	111	82-122	9	25				
1234789-HpCDF	102	104	78-138	2	25				
OCDF	101	109	63-170	7	25				

Surrogate Quality Control

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232085
Reported: 03/16/11 at 11:40 PM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11049002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6200343	70	86	57	72	75	66
6200344	73	87	39	53	79	76
6200345	71	93	45	62	81	73
Blank	82	96	38	54	87	77
OPR	73	86	54	69	76	66
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6200343	70	56	44	90	79	69
6200344	48	61	46	87	81	58
6200345	59	60	47	89	84	65
Blank	52	67	51	101	90	61
OPR	68	54	41	94	83	68
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6200343	68	69	63	55	76	95
6200344	65	72	63	56	81	96
6200345	69	72	67	58	80	101
Blank	68	79	71	63	86	108
OPR	71	74	66	57	79	97
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11060001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6200346	70	66	42	58	67	58
6200348	73	68	41	59	72	66
Blank	61	50	29	47	53	44
MS	81	77	55	69	79	75
MSD	77	76	47	60	77	76
OPR	71	68	41	60	72	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6200346	55	42	30	88	70	65
6200348	55	48	34	88	72	68
Blank	47	33	23	76	62	57
MS	64	62	49	89	80	79
MSD	50	60	45	90	78	71
OPR	62	54	43	83	75	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232085
Reported: 03/16/11 at 11:40 PM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6200346	69	72	59	46	68	74
6200348	73	74	63	48	71	78
Blank	63	65	55	42	51	63
MS	81	82	72	58	79	83
MSD	77	78	66	52	78	79
OPR	77	79	70	59	65	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11062001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6200347	71	72	40	54	74	75
Blank	66	68	56	65	69	69
OPR	68	72	51	65	71	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6200347	58	69	67	79	79	70
Blank	75	66	65	79	73	72
OPR	74	62	58	86	76	74
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6200347	73	76	77	77	67	73
Blank	73	75	79	78	63	72
OPR	75	76	77	76	66	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

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

13013 1282085 6200343-48

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-048-SA5A-SB-3.0-4.0	2.07.2011	1228	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-048-SA5A-SB-3.5	2.07.2011	1222	SOIL	NONE	4-Encores									X	X												
SL-049-SA5A-SB-2.0-3.0	2.07.2011	1519	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-049-SA5A-SB-2.5	2.07.2011	1515	SOIL	NONE	4-Encores									X	X												
SL-160-SA5B-SB-4.0-5.0	2.07.2011	1023	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-160-SA5B-SB-4.5	2.07.2011	1020	SOIL	NONE	4-Encores									X	X												
SL-161-SA5B-SB-4.0-5.0	2.07.2011	1433	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-161-SA5B-SB-4.5	2.07.2011	1430	SOIL	NONE	4-Encores									X	X												
SL-162-SA5B-SB-4.0-5.0	2.07.2011	1154	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-162-SA5B-SB-4.5	2.07.2011	1149	SOIL	NONE	4-Encores									X	X												
SL-163-SA5B-SB-3.5-4.5	2.07.2011	1536	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-163-SA5B-SB-4.0	2.07.2011	1533	SOIL	NONE	4-Encores									X	X												
TB-020711	2.07.2011	0800	WATER	HCl	3-40 mL VOA VIALS									X	X												TRIP BLANK

Relinquished by: (Signature)

Date/Time: 02/07/2011 / 17:00

Received for Laboratory by: (Signature) Gary Hecht LLI 2/8/11 920

Received by: (Signature)

Date/Time

Airbill No.(s): 8695 1432 2902

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

March 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/17/2011
Group Number: 1233566
SDG: DE083
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-024-SA5A-SS-0.0-0.5 Soil	6208342
SL-025-SA5A-SS-0.0-0.5 Soil	6208343
SL-026-SA5A-SS-0.0-0.5 Soil	6208344
SL-028-SA5A-SS-0.0-0.5 Soil	6208345
SL-029-SA5A-SS-0.0-0.5 Soil	6208346
SL-031-SA5A-SS-0.0-0.5 Soil	6208347
SL-032-SA5A-SS-0.0-0.5 Soil	6208348
SL-041-SA5A-SS-0.0-0.5 Soil	6208349
SL-332-SA5B-SB-4.0-5.0 Soil	6208350
SL-333-SA5B-SB-4.0-5.0 Soil	6208351
SL-335-SA5B-SB-2.0-3.0 Soil	6208352
TB-021611 Water	6208353

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

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-024-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208342
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8301 SDG#: DE083-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	25	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208342
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8301 SDG#: DE083-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.61	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.6		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	4.2		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	9.6	J	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	10	J	6.5	20		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	J	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	24		6.5	20		1
10138	Fluoranthene	206-44-0	5.0		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.1		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	28		6.5	20		1
10138	Phenanthrene	85-01-8	2.0		0.73	1.8		1
10138	Pyrene	129-00-0	4.6		0.73	1.8		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	12	U	12	12		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	1,100	U	1,100	1,100		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.31		0.082	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208342
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8301 SDG#: DE083-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	1.7		0.072	0.37		1
01363	p,p-DDT	50-29-3	1.4		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.17	J	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.22	J	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.091	U	0.091	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to an error during the preparation of the sample, TCX and DCB are not present in the method blank and LCS. Due to insufficient sample volume a reextraction could not be performed. The client was notified and the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: endrin aldehyde.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.2		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.2		2
10225	Aroclor 5460	11126-42-4	12		2.2	7.2		2
10225	PCB-1016	12674-11-2	0.72	U	0.72	3.7		2
10225	PCB-1221	11104-28-2	0.72	U	0.72	3.7		2
10225	PCB-1232	11141-16-5	0.72	U	0.72	3.7		2
10225	PCB-1242	53469-21-9	0.72	U	0.72	3.7		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208342
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8301 SDG#: DE083-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.72	U	0.72	3.7		2
10225	PCB-1254	11097-69-1	5.7		0.72	3.7		2
10225	PCB-1260	11096-82-5	14		0.85	3.7		2
10225	PCB-1262	37324-23-5	0.72	U	0.72	3.7		2
10225	PCB-1268	11100-14-4	0.72	U	0.72	3.7		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.31	21.1		1
07914	Boron	7440-42-8	1.90	J	0.940	5.28		1
01650	Calcium	7440-70-2	2,340		6.48	21.1		1
01654	Iron	7439-89-6	16,800		4.98	21.1		1
01656	Lithium	7439-93-2	20.7		0.23	2.1		1
01657	Magnesium	7439-95-4	3,620		2.68	10.6		1
06958	Manganese	7439-96-5	319		0.0824	0.528		1
10145	Phosphorus	7723-14-0	455		0.592	10.6		1
01662	Potassium	7440-09-7	3,260		19.0	52.8		1
01667	Sodium	7440-23-5	67.6	J	39.4	106		1
07968	Strontium	7440-24-6	18.2		0.0655	0.528		1
06969	Tin	7440-31-5	2.59	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,110		0.401	1.06		1
10146	Zirconium	7440-67-7	2.20	J	0.887	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.306		0.0640	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.24		0.0853	0.427		2
06126	Barium	7440-39-3	142		0.115	0.427		2
06127	Beryllium	7440-41-7	0.578		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.298		0.0427	0.107		2
06131	Chromium	7440-47-3	26.5		0.128	0.427		2
06132	Cobalt	7440-48-4	8.39		0.0213	0.107		2
06133	Copper	7440-50-8	15.3		0.0704	0.427		2
06135	Lead	7439-92-1	22.0		0.0111	0.213		2
06138	Molybdenum	7439-98-7	1.08		0.0533	0.107		2
06139	Nickel	7440-02-0	17.7		0.107	0.427		2
06141	Selenium	7782-49-2	0.253	J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0856	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.398		0.0320	0.107		2
06148	Vanadium	7440-62-2	51.9		0.0235	0.107		2
06149	Zinc	7440-66-6	89.9		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.87	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208342
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8301 SDG#: DE083-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	582		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 21:01	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011 01:22	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	02/28/2011 21:05	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110520010A	02/25/2011 21:22	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 07:44	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110520010A	02/21/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208342
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8301 SDG#: DE083-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 05:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 11:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	03/02/2011 13:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 11:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 11:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 17:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 14:09	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11053243201A	02/23/2011 13:09	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182101B	02/18/2011 10:00	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208342
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8301 SDG#: DE083-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401B	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-025-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208343
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8302 SDG#: DE083-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208343
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8302 SDG#: DE083-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.83	J	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.93	J	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.9	J	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.9		0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	8.8	J	7.0	21		1
10138	Chrysene	218-01-9	2.4		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J	7.0	21		1
10138	Fluoranthene	206-44-0	2.4		0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.95	J	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	1.5	J	0.78	1.9		1
10138	Pyrene	129-00-0	2.4		0.78	1.9		1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	8.2	U	8.2	8.2		1
10401	Dicamba	1918-00-9	0.48	J	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	870		89	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

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

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Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208343
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8302 SDG#: DE083-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	1.9	U	1.9	4.0		1
01363	p,p-DDD	72-54-8	0.19	U	0.19	0.40		1
01363	p,p-DDE	72-55-9	0.85		0.077	0.40		1
01363	p,p-DDT	50-29-3	1.5		0.077	0.40		1
01363	Delta BHC	319-86-8	0.059	J	0.042	0.19		1
01363	Dieldrin	60-57-1	0.18	J	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.16	J	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.32	J	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram, the values reported for p,p-DDD represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.7		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.7		2
10225	Aroclor 5460	11126-42-4	10		2.3	7.7		2
10225	PCB-1016	12674-11-2	0.77	U	0.77	4.0		2
10225	PCB-1221	11104-28-2	0.77	U	0.77	4.0		2
10225	PCB-1232	11141-16-5	0.77	U	0.77	4.0		2
10225	PCB-1242	53469-21-9	0.77	U	0.77	4.0		2
10225	PCB-1248	12672-29-6	0.77	U	0.77	4.0		2
10225	PCB-1254	11097-69-1	0.77	U	0.77	4.0		2
10225	PCB-1260	11096-82-5	6.2		0.91	4.0		2
10225	PCB-1262	37324-23-5	0.77	U	0.77	4.0		2
10225	PCB-1268	11100-14-4	0.77	U	0.77	4.0		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		5.75	22.9		1
07914	Boron	7440-42-8	3.37	J	1.02	5.71		1

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Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208343
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8302 SDG#: DE083-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,130		7.00	22.9		1
01654	Iron	7439-89-6	18,300		5.38	22.9		1
01656	Lithium	7439-93-2	20.3		0.25	2.3		1
01657	Magnesium	7439-95-4	3,850		2.90	11.4		1
06958	Manganese	7439-96-5	375		0.0891	0.571		1
10145	Phosphorus	7723-14-0	341		0.640	11.4		1
01662	Potassium	7440-09-7	3,490		20.6	57.1		1
01667	Sodium	7440-23-5	81.4	J	42.6	114		1
07968	Strontium	7440-24-6	26.1		0.0708	0.571		1
06969	Tin	7440-31-5	2.80	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,270		0.434	1.14		1
10146	Zirconium	7440-67-7	2.33	J	0.960	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.226	J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.77		0.0905	0.453		2
06126	Barium	7440-39-3	173		0.122	0.453		2
06127	Beryllium	7440-41-7	0.531		0.0181	0.113		2
06128	Cadmium	7440-43-9	4.60		0.0453	0.113		2
06131	Chromium	7440-47-3	32.4		0.136	0.453		2
06132	Cobalt	7440-48-4	9.76		0.0226	0.113		2
06133	Copper	7440-50-8	18.3		0.0747	0.453		2
06135	Lead	7439-92-1	36.1		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.695		0.0566	0.113		2
06139	Nickel	7440-02-0	26.5		0.113	0.453		2
06141	Selenium	7782-49-2	0.270	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.161		0.0136	0.113		2
06145	Thallium	7440-28-0	0.409		0.0339	0.113		2
06148	Vanadium	7440-62-2	54.5		0.0249	0.113		2
06149	Zinc	7440-66-6	138		0.634	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0221	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208343
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E8302 SDG#: DE083-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	567	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.73	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 21:26	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011 03:05	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/05/2011 13:24	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011 08:36	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 01:10	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011 06:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:17	Tara L Snyder	1

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Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208343
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

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E8302 SDG#: DE083-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	03/02/2011 13:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 16:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 15:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 13:15	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182101B	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401B	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-026-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8303 SDG#: DE083-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)pyrene	50-32-8	72	J	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	41	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8303 SDG#: DE083-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.82	J	0.37	1.9		1
10138	Anthracene	120-12-7	1.4	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	5.9		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	11		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	6.8		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	25		6.7	20		1
10138	Chrysene	218-01-9	12		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	2.5		0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33		6.7	20		1
10138	Fluoranthene	206-44-0	6.5		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.9		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.81	J	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.87	J	0.75	1.9		1
10138	Naphthalene	91-20-3	0.89	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	3.1		0.75	1.9		1
10138	Pyrene	129-00-0	5.9		0.75	1.9		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	8.1	U	8.1	8.1		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	1,100	U	1,100	1,100		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8303 SDG#: DE083-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.056	J	0.038	0.19		1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.10	J	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.32	J	0.074	0.38		1
01363	p,p-DDT	50-29-3	1.6		0.074	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.13	J	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.20	J	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.14	U	0.14	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.23	J	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram, the values reported for endrin ketone represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	7.1		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	7.2		0.37	1.9		1
10225	PCB-1260	11096-82-5	6.1		0.44	1.9		1

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Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8303 SDG#: DE083-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The DCB surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		5.48	21.8		1
07914	Boron	7440-42-8	1.55	J	0.970	5.45		1
01650	Calcium	7440-70-2	2,760		6.68	21.8		1
01654	Iron	7439-89-6	18,200		5.13	21.8		1
01656	Lithium	7439-93-2	22.5		0.24	2.2		1
01657	Magnesium	7439-95-4	4,180		2.77	10.9		1
06958	Manganese	7439-96-5	272		0.0850	0.545		1
10145	Phosphorus	7723-14-0	389		0.610	10.9		1
01662	Potassium	7440-09-7	3,100		19.6	54.5		1
01667	Sodium	7440-23-5	90.1	J	40.6	109		1
07968	Strontium	7440-24-6	17.1		0.0676	0.545		1
06969	Tin	7440-31-5	2.88	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,190		0.414	1.09		1
10146	Zirconium	7440-67-7	1.78	J	0.915	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.283		0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.40		0.0863	0.432		2
06126	Barium	7440-39-3	138		0.117	0.432		2
06127	Beryllium	7440-41-7	0.444		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.222		0.0432	0.108		2
06131	Chromium	7440-47-3	27.4		0.130	0.432		2
06132	Cobalt	7440-48-4	8.67		0.0216	0.108		2
06133	Copper	7440-50-8	13.7		0.0712	0.432		2
06135	Lead	7439-92-1	26.2		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.738		0.0540	0.108		2
06139	Nickel	7440-02-0	16.3		0.108	0.432		2
06141	Selenium	7782-49-2	0.133	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0551	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.376		0.0324	0.108		2
06148	Vanadium	7440-62-2	56.9		0.0237	0.108		2
06149	Zinc	7440-66-6	92.2		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0438	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.90	1.1		1

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Sample Description: SL-026-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8303 SDG#: DE083-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	555		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.24		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011	21:51	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011	03:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011	08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/05/2011	13:51	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110540019A	03/02/2011	14:59	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011	08:50	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011	01:33	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011	06:00	Joseph S Feister	1

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Sample Description: SL-026-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E8303 SDG#: DE083-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110540019A	02/24/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:21	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	03/02/2011 13:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 17:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 15:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 13:29	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8303 SDG#: DE083-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182101B	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401B	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-028-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208345
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8304 SDG#: DE083-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208345
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8304 SDG#: DE083-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 20 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	7.3	J	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	13	J	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	5.8	U	5.8	5.8		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	84	U	84	280		1
10401	MCPP (Mecoprop)	93-65-2	170	J	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208345
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8304 SDG#: DE083-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. MCPP was detected in the method blank at a concentration of 347 ug/kg. A reextraction was performed outside the sample hold time. Results from the reextraction were within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.083	J	0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208345
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8304 SDG#: DE083-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.36	21.3		1
07914	Boron	7440-42-8	2.54	J	0.949	5.33		1
01650	Calcium	7440-70-2	3,040		6.53	21.3		1
01654	Iron	7439-89-6	17,100		5.02	21.3		1
01656	Lithium	7439-93-2	17.1		0.23	2.1		1
01657	Magnesium	7439-95-4	3,560		2.71	10.7		1
06958	Manganese	7439-96-5	343		0.0831	0.533		1
10145	Phosphorus	7723-14-0	240		0.597	10.7		1
01662	Potassium	7440-09-7	3,520		19.2	53.3		1
01667	Sodium	7440-23-5	81.4	J	39.8	107		1
07968	Strontium	7440-24-6	23.2		0.0661	0.533		1
06969	Tin	7440-31-5	2.61	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,240		0.405	1.07		1
10146	Zirconium	7440-67-7	2.24	J	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.209	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.46		0.0887	0.443		2
06126	Barium	7440-39-3	148		0.120	0.443		2
06127	Beryllium	7440-41-7	0.537		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.413		0.0443	0.111		2
06131	Chromium	7440-47-3	28.0		0.133	0.443		2
06132	Cobalt	7440-48-4	9.41		0.0222	0.111		2
06133	Copper	7440-50-8	15.1		0.0732	0.443		2
06135	Lead	7439-92-1	9.21		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.949		0.0554	0.111		2
06139	Nickel	7440-02-0	17.6		0.111	0.443		2
06141	Selenium	7782-49-2	0.196	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0480	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.421		0.0333	0.111		2
06148	Vanadium	7440-62-2	51.3		0.0244	0.111		2
06149	Zinc	7440-66-6	71.8		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208345
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8304 SDG#: DE083-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	470	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.13	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 22:16	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011 04:14	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	02/28/2011 19:44	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011 09:19	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 01:57	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011 06:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208345
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8304 SDG#: DE083-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 17:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 16:34	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11053243201A	02/23/2011 14:00	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182101B	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401B	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-029-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208346
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8305 SDG#: DE083-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-029-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208346
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8305 SDG#: DE083-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.69	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	4.6		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	4.7		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	7.6		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	4.6		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	3.0		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	19	J	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	11	J	6.8	20		1
10138	Chrysene	218-01-9	6.9		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.91	J	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6,000		680	2,000		100
10138	Fluoranthene	206-44-0	6.6		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.0		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	77		6.8	20		1
10138	Phenanthrene	85-01-8	2.3		0.76	1.9		1
10138	Pyrene	129-00-0	6.2		0.76	1.9		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	4.3	U	4.3	4.3		1
10401	Dicamba	1918-00-9	0.92	J	0.45	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	570		86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-029-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208346
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8305 SDG#: DE083-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.11	U	0.11	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	1.6	U	1.6	3.9		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.15	J	0.075	0.39		1
01363	p,p-DDT	50-29-3	0.37	J	0.075	0.39		1
01363	Delta BHC	319-86-8	0.077	U	0.077	0.19		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.11	J	0.075	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.23	J	0.075	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram, the values reported for beta-BHC and delta-BHC represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.5		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.5		2
10225	Aroclor 5460	11126-42-4	2.3	U	2.3	7.5		2
10225	PCB-1016	12674-11-2	0.75	U	0.75	3.8		2
10225	PCB-1221	11104-28-2	0.75	U	0.75	3.8		2
10225	PCB-1232	11141-16-5	0.75	U	0.75	3.8		2
10225	PCB-1242	53469-21-9	0.75	U	0.75	3.8		2
10225	PCB-1248	12672-29-6	0.75	U	0.75	3.8		2
10225	PCB-1254	11097-69-1	0.75	U	0.75	3.8		2
10225	PCB-1260	11096-82-5	1.4	J	0.88	3.8		2
10225	PCB-1262	37324-23-5	0.75	U	0.75	3.8		2
10225	PCB-1268	11100-14-4	0.75	U	0.75	3.8		2
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-029-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208346
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8305 SDG#: DE083-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.64	22.4		1
07914	Boron	7440-42-8	2.67	J	0.998	5.61		1
01650	Calcium	7440-70-2	4,550		6.87	22.4		1
01654	Iron	7439-89-6	18,700		5.28	22.4		1
01656	Lithium	7439-93-2	20.7		0.25	2.2		1
01657	Magnesium	7439-95-4	4,070		2.85	11.2		1
06958	Manganese	7439-96-5	343		0.0875	0.561		1
10145	Phosphorus	7723-14-0	314		0.628	11.2		1
01662	Potassium	7440-09-7	3,370		20.2	56.1		1
01667	Sodium	7440-23-5	99.5	J	41.8	112		1
07968	Strontium	7440-24-6	25.8		0.0695	0.561		1
06969	Tin	7440-31-5	2.55	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,280		0.426	1.12		1
10146	Zirconium	7440-67-7	2.46	J	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.10		0.0880	0.440		2
06126	Barium	7440-39-3	119		0.119	0.440		2
06127	Beryllium	7440-41-7	0.495		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.165		0.0440	0.110		2
06131	Chromium	7440-47-3	25.6		0.132	0.440		2
06132	Cobalt	7440-48-4	7.58		0.0220	0.110		2
06133	Copper	7440-50-8	13.0		0.0726	0.440		2
06135	Lead	7439-92-1	12.8		0.0114	0.220		2
06138	Molybdenum	7439-98-7	1.00		0.0550	0.110		2
06139	Nickel	7440-02-0	15.0		0.110	0.440		2
06141	Selenium	7782-49-2	0.180	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0535	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.333		0.0330	0.110		2
06148	Vanadium	7440-62-2	46.0		0.0242	0.110		2
06149	Zinc	7440-66-6	70.3		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.74	J	0.23	1.1		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-029-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208346
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8305 SDG#: DE083-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	451	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.99	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 22:41	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011 04:48	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/26/2011 00:14	Gregory J Drahovsky	100
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	02/28/2011 22:27	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011 09:33	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 02:20	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011 06:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-029-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208346
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

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

E8305 SDG#: DE083-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	03/02/2011 13:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 18:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 16:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 14:06	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182101B	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401B	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-031-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8306 SDG#: DE083-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	38	J	19	190		1
04688	Aniline	62-53-3	190	U	190	560		1
04688	Anthracene	120-12-7	96	J	19	190		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	910		19	190		1
04688	Benzo(a)pyrene	50-32-8	800		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	560		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	580		19	190		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	140	J	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Chrysene	218-01-9	1,300		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	180	J	19	190		1
04688	Dibenzofuran	132-64-9	19	J	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Fluoranthene	206-44-0	1,900		19	190		1
04688	Fluorene	86-73-7	26	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	590		19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-031-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8306 SDG#: DE083-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenanthrene	85-01-8	770		19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	1,600		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthylene	208-96-8	8.7		0.38	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.2	J	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	10	J	6.8	20		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.8	20		1
10138	1-Methylnaphthalene	90-12-0	1.0	J	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.2	J	0.75	1.9		1
10138	Naphthalene	91-20-3	1.4	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 6.5 ug/kg bis(2-ethylhexyl)phthalate 9.4 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	27		1.4	3.8		2
10401	Dicamba	1918-00-9	0.51	J	0.45	1.4		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	810	U	810	810		1
10401	MCPP (Mecoprop)	93-65-2	120	U	120	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8306 SDG#: DE083-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
	MCPP was detected in the method blank at a concentration of 347 ug/kg. A reextraction was performed outside the sample hold time. Results from the reextraction were within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial is reported.							
	Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable.							
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.13	J	0.038	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8		1
01363	p,p-DDD	72-54-8	1.3	U	1.3	1.3		1
01363	p,p-DDE	72-55-9	0.075	U	0.075	0.38		1
01363	p,p-DDT	50-29-3	0.075	U	0.075	0.38		1
01363	Delta BHC	319-86-8	0.12	J	0.041	0.19		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.38		1
01363	Endosulfan I	959-98-8	0.11	U	0.11	0.19		1
01363	Endosulfan II	33213-65-9	0.29	U	0.29	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.38		1
01363	Endrin	72-20-8	0.075	U	0.075	0.38		1
01363	Endrin Aldehyde	7421-93-4	1.5		0.075	0.38		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.38		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.095	J	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	30		0.75	3.8		10
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds are affected.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8306 SDG#: DE083-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.60	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.2	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.63	22.4		1
07914	Boron	7440-42-8	2.06	J	0.996	5.59		1
01650	Calcium	7440-70-2	2,150		6.86	22.4		1
01654	Iron	7439-89-6	16,800		5.27	22.4		1
01656	Lithium	7439-93-2	16.3		0.25	2.2		1
01657	Magnesium	7439-95-4	3,270		2.84	11.2		1
06958	Manganese	7439-96-5	327		0.0873	0.559		1
10145	Phosphorus	7723-14-0	227		0.627	11.2		1
01662	Potassium	7440-09-7	3,130		20.1	55.9		1
01667	Sodium	7440-23-5	78.9	J	41.7	112		1
07968	Strontium	7440-24-6	18.2		0.0694	0.559		1
06969	Tin	7440-31-5	2.58	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,120		0.425	1.12		1
10146	Zirconium	7440-67-7	1.96	J	0.940	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.197	J	0.0652	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.08		0.0869	0.435		2
06126	Barium	7440-39-3	126		0.117	0.435		2
06127	Beryllium	7440-41-7	0.527		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.324		0.0435	0.109		2
06131	Chromium	7440-47-3	27.0		0.130	0.435		2
06132	Cobalt	7440-48-4	9.56		0.0217	0.109		2
06133	Copper	7440-50-8	14.8		0.0717	0.435		2
06135	Lead	7439-92-1	11.1		0.0113	0.217		2
06138	Molybdenum	7439-98-7	1.34		0.0543	0.109		2
06139	Nickel	7440-02-0	17.6		0.109	0.435		2
06141	Selenium	7782-49-2	0.450		0.0435	0.435		2
06142	Silver	7440-22-4	0.0658	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.404		0.0326	0.109		2
06148	Vanadium	7440-62-2	49.4		0.0239	0.109		2
06149	Zinc	7440-66-6	148		0.608	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8306 SDG#: DE083-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	493		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.69		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011	23:06	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011	05:23	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011	08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	02/28/2011	22:55	John W Perkins	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/08/2011	00:22	John W Perkins	2
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011	09:48	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011	10:02	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011	02:43	Lindsey K Lafferty	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8306 SDG#: DE083-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011 06:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 18:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 17:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11053243201A	02/23/2011 14:25	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8306 SDG#: DE083-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182102A	02/18/2011 11:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039402A	02/18/2011 11:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208348
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8307 SDG#: DE083-07

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

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Sample Description: SL-032-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208348
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8307 SDG#: DE083-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.53	J	0.37	1.8		1
10138	Anthracene	120-12-7	0.45	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.2	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	11	J	6.6	20		1
10138	Chrysene	218-01-9	2.4		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18	J	6.6	20		1
10138	Fluoranthene	206-44-0	1.9		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	15	J	6.6	20		1
10138	Phenanthrene	85-01-8	1.4	J	0.74	1.8		1
10138	Pyrene	129-00-0	1.5	J	0.74	1.8		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	9.5	U	9.5	9.5		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	5.5		0.88	1.9		1
10401	MCPA	94-74-6	390	U	390	390		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.67		0.083	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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Sample Description: SL-032-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208348
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8307 SDG#: DE083-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.17	J	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.27	J	0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.093	J	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.081	J	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.5	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.6	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.1	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,600		5.40	21.5		1
07914	Boron	7440-42-8	1.54	J	0.956	5.37		1
01650	Calcium	7440-70-2	2,420		6.58	21.5		1

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Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208348
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8307 SDG#: DE083-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	24,000		5.06	21.5		1
01656	Lithium	7439-93-2	27.1		0.24	2.1		1
01657	Magnesium	7439-95-4	5,070		2.73	10.7		1
06958	Manganese	7439-96-5	347		0.0838	0.537		1
10145	Phosphorus	7723-14-0	560		0.601	10.7		1
01662	Potassium	7440-09-7	4,870		19.3	53.7		1
01667	Sodium	7440-23-5	71.0	J	40.1	107		1
07968	Strontium	7440-24-6	20.9		0.0666	0.537		1
06969	Tin	7440-31-5	3.01	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,300		0.408	1.07		1
10146	Zirconium	7440-67-7	1.30	J	0.902	5.37		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.160	J	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.19		0.0885	0.442		2
06126	Barium	7440-39-3	120		0.119	0.442		2
06127	Beryllium	7440-41-7	0.647		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.223		0.0442	0.111		2
06131	Chromium	7440-47-3	22.1		0.133	0.442		2
06132	Cobalt	7440-48-4	6.97		0.0221	0.111		2
06133	Copper	7440-50-8	11.6		0.0730	0.442		2
06135	Lead	7439-92-1	11.6		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.545		0.0553	0.111		2
06139	Nickel	7440-02-0	13.9		0.111	0.442		2
06141	Selenium	7782-49-2	0.169	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0620	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.259		0.0332	0.111		2
06148	Vanadium	7440-62-2	41.0		0.0243	0.111		2
06149	Zinc	7440-66-6	72.8		0.619	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	582		10.0	10.0		1

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Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208348
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8307 SDG#: DE083-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.50	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 23:31	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011 05:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110540018A	02/24/2011 21:34	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011 11:44	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 08:07	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011 06:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110540018A	02/23/2011 23:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208348
LLI Group # 1233566
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

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E8307 SDG#: DE083-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	03/02/2011 13:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 19:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 17:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 14:31	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182102A	02/18/2011 11:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039402A	02/18/2011 11:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-041-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208349
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8308 SDG#: DE083-08

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

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Sample Description: SL-041-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208349
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8308 SDG#: DE083-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.51	J	0.37	1.8		1
10138	Anthracene	120-12-7	0.38	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.84	J	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.86	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.2		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.89	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.5	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	14	J	6.6	20		1
10138	Chrysene	218-01-9	2.4		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	21		6.6	20		1
10138	Fluoranthene	206-44-0	3.0		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	J	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.6	J	0.74	1.8		1
10138	Pyrene	129-00-0	2.3		0.74	1.8		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	5.1	U	5.1	5.1		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	84	U	84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.11	U	0.11	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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Sample Description: SL-041-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208349
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8308 SDG#: DE083-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB and 2,4,5-TP.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.13	U	0.13	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.11	U	0.11	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.2	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The DCB surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to							

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Sample Description: **SL-041-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208349
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8308 SDG#: DE083-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.52	21.9		1
07914	Boron	7440-42-8	1.41	J	0.976	5.48		1
01650	Calcium	7440-70-2	2,630		6.72	21.9		1
01654	Iron	7439-89-6	19,900		5.16	21.9		1
01656	Lithium	7439-93-2	25.3		0.24	2.2		1
01657	Magnesium	7439-95-4	4,560		2.78	11.0		1
06958	Manganese	7439-96-5	320		0.0855	0.548		1
10145	Phosphorus	7723-14-0	687		0.614	11.0		1
01662	Potassium	7440-09-7	4,360		19.7	54.8		1
01667	Sodium	7440-23-5	66.6	J	40.9	110		1
07968	Strontium	7440-24-6	15.7		0.0680	0.548		1
06969	Tin	7440-31-5	2.50	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,210		0.417	1.10		1
10146	Zirconium	7440-67-7	1.39	J	0.921	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0932	J	0.0658	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.03		0.0877	0.439		2
06126	Barium	7440-39-3	136		0.118	0.439		2
06127	Beryllium	7440-41-7	0.517		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.297		0.0439	0.110		2
06131	Chromium	7440-47-3	26.7		0.132	0.439		2
06132	Cobalt	7440-48-4	7.87		0.0219	0.110		2
06133	Copper	7440-50-8	13.9		0.0724	0.439		2
06135	Lead	7439-92-1	11.1		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.740		0.0548	0.110		2
06139	Nickel	7440-02-0	16.1		0.110	0.439		2
06141	Selenium	7782-49-2	0.108	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0431	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.225		0.0329	0.110		2
06148	Vanadium	7440-62-2	48.3		0.0241	0.110		2
06149	Zinc	7440-66-6	86.1		0.614	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-041-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208349
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

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

E8308 SDG#: DE083-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	583		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 23:56	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011 06:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/05/2011 15:14	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011 11:59	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 03:06	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011 06:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208349
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8308 SDG#: DE083-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:45	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	03/02/2011 13:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 19:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 18:10	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11053243201A	02/23/2011 14:50	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182102A	02/18/2011 11:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039402A	02/18/2011 11:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1	U	6.1	7.3		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.3		0.83
06192	Methylene Chloride	75-09-2	0.52	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.83

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.83
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.								
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		21.97
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	905	U	905	1,810		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	1.9		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	64		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	75		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	97		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	22		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	42		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	18	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	14	J	6.6	20		1
10138	Chrysene	218-01-9	60		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	7.6		0.73	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	21		6.6	20		1
10138	Fluoranthene	206-44-0	21		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	20		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.2	J	0.73	1.8		1
10138	Pyrene	129-00-0	32		0.73	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 6.5 ug/kg bis(2-ethylhexyl)phthalate 9.4 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.05
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1

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Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	19		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	8.4		0.36	1.9		1
10225	PCB-1260	11096-82-5	2.7		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	22	U	22	66		50
10199	EFH (C15-C20)	n.a.	22	U	22	66		50
10199	EFH (C21-C30)	n.a.	420		22	66		50
10199	EFH (C30 - C40)	n.a.	1,100		22	66		50
10199	EFH (C8-C11)	n.a.	22	U	22	66		50
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.6	U	6.6	14		1
08283	Ethylene glycol	107-21-1	9.9	U	9.9	14		1

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Sample Description: **SL-332-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.37	21.4		1
07914	Boron	7440-42-8	6.20		0.951	5.34		1
01650	Calcium	7440-70-2	2,860		6.55	21.4		1
01654	Iron	7439-89-6	17,300		5.03	21.4		1
01656	Lithium	7439-93-2	15.6		0.23	2.1		1
01657	Magnesium	7439-95-4	3,180		2.71	10.7		1
06958	Manganese	7439-96-5	197		0.0833	0.534		1
10145	Phosphorus	7723-14-0	330		0.598	10.7		1
01662	Potassium	7440-09-7	2,500		19.2	53.4		1
01667	Sodium	7440-23-5	144		39.8	107		1
07968	Strontium	7440-24-6	18.0		0.0662	0.534		1
06969	Tin	7440-31-5	2.49	J	1.07	10.7		1
06970	Titanium	7440-32-6	920		0.406	1.07		1
10146	Zirconium	7440-67-7	0.914	J	0.897	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.06		0.0871	0.436		2
06126	Barium	7440-39-3	82.9		0.118	0.436		2
06127	Beryllium	7440-41-7	0.564		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0881	J	0.0436	0.109		2
06131	Chromium	7440-47-3	16.8		0.131	0.436		2
06132	Cobalt	7440-48-4	4.43		0.0218	0.109		2
06133	Copper	7440-50-8	8.56		0.0719	0.436		2
06135	Lead	7439-92-1	6.63		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.582		0.0545	0.109		2
06139	Nickel	7440-02-0	10.2		0.109	0.436		2
06141	Selenium	7782-49-2	0.231	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0273	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.288		0.0327	0.109		2
06148	Vanadium	7440-62-2	45.0		0.0240	0.109		2
06149	Zinc	7440-66-6	75.1		0.610	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	486		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-332-SA5B-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 20:24	Chelsea B Eastep	0.83

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Sample Description: **SL-332-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8309 SDG#: DE083-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011 22:34	Sara E Johnson	21.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:08	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:11	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104823704	02/17/2011 12:11	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104823704	02/17/2011 12:09	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/03/2011 23:58	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/27/2011 00:21	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/26/2011 01:24	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/18/2011 11:16	Marie D John	22.05
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:09	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 14:13	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 17:31	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 03:29	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 05:01	Heather E Williams	50
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 19:48	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 16:42	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 10:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:49	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1

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Sample Description: **SL-332-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E8309 SDG#: DE083-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 19:44	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11060621201A	03/03/2011 19:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 18:34	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 14:56	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 16:28	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11049182102A	02/18/2011 11:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039402A	02/18/2011 11:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.86
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.86
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.86
06192	Methylene Chloride	75-09-2	0.67	J	0.24	3.9		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.86

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Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.86

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	19.0	U	19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)pyrene	50-32-8	20	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1

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Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.62	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.82	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.2	J	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	8.4	J	6.9	21		1
10138	Chrysene	218-01-9	1.7	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1

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Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	19	J	6.9	21		1
10138	Fluoranthene	206-44-0	3.1		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	2.6		0.76	1.9		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
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E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	16		1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	4.5		0.38	1.9		1
10225	PCB-1260	11096-82-5	3.0		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14		10
10199	EFH (C15-C20)	n.a.	4.6	U	4.6	14		10
10199	EFH (C21-C30)	n.a.	37		4.6	14		10
10199	EFH (C30 - C40)	n.a.	100		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	8.0	U	8.0	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

Due to interfering peaks on the chromatogram, the value reported for ethylene

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,800		5.69	22.6		1
07914	Boron	7440-42-8	1.04	J	1.01	5.66		1
01650	Calcium	7440-70-2	1,390		6.94	22.6		1
01654	Iron	7439-89-6	14,100		5.33	22.6		1
01656	Lithium	7439-93-2	13.2		0.25	2.3		1
01657	Magnesium	7439-95-4	2,500		2.87	11.3		1
06958	Manganese	7439-96-5	116		0.0883	0.566		1
10145	Phosphorus	7723-14-0	158		0.634	11.3		1
01662	Potassium	7440-09-7	2,050		20.4	56.6		1
01667	Sodium	7440-23-5	715		42.2	113		1
07968	Strontium	7440-24-6	10.2		0.0702	0.566		1
06969	Tin	7440-31-5	2.74	J	1.13	11.3		1
06970	Titanium	7440-32-6	830		0.430	1.13		1
10146	Zirconium	7440-67-7	0.950	U	0.950	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0824	J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.96		0.0905	0.453		2
06126	Barium	7440-39-3	51.1		0.122	0.453		2
06127	Beryllium	7440-41-7	0.268		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0453	U	0.0453	0.113		2
06131	Chromium	7440-47-3	11.9		0.136	0.453		2
06132	Cobalt	7440-48-4	2.26		0.0226	0.113		2
06133	Copper	7440-50-8	4.12		0.0747	0.453		2
06135	Lead	7439-92-1	5.25		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.217		0.0566	0.113		2
06139	Nickel	7440-02-0	4.76		0.113	0.453		2
06141	Selenium	7782-49-2	0.0977	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0273	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.300		0.0339	0.113		2
06148	Vanadium	7440-62-2	24.8		0.0249	0.113		2
06149	Zinc	7440-66-6	58.1		0.634	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.4		0.91	1.7		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	479		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.80		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-333-SA5B-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 20:47	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011 22:54	Sara E Johnson	20
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:05	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:11	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104823704	02/17/2011 12:11	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104823704	02/17/2011 12:06	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 00:14	Timothy J Trees	1

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Sample Description: **SL-333-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8310 SDG#: DE083-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/27/2011 00:46	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/26/2011 01:58	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/18/2011 11:53	Marie D John	21.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:06	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 14:55	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 17:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 03:52	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 04:36	Heather E Williams	10
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 20:03	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 17:00	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 12:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:52	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:50	Choon Y Tian	2

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Sample Description: **SL-333-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8310 SDG#: DE083-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	03/02/2011 13:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 19:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11060621201A	03/03/2011 19:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 18:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 15:08	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 16:29	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11049182102A	02/18/2011 11:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039402A	02/18/2011 11:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.96
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.96
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.96
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.96
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.96
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.96
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.96
06192	Methylene Chloride	75-09-2	0.68	J	0.25	4.2		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.96

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Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.96
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.96
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.96
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.95
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.0	U	18.0	36.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1

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Sample Description: **SL-335-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1

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Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 9.4 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1

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Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
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Project Name: SSFL Area IV Collocated Soil Sampling

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E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	310	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	8.8	U	8.8	14		1
08283	Ethylene glycol	107-21-1	8.8	U	8.8	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

Due to interfering peaks on the chromatogram, the values reported for ethylene

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Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
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E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	glycol and diethylene glycol represent the lowest reporting limit attainable. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls		**SW-846 8015B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		5.45	21.7		1
07914	Boron	7440-42-8	0.964	U	0.964	5.42		1
01650	Calcium	7440-70-2	2,540		6.64	21.7		1
01654	Iron	7439-89-6	20,700		5.10	21.7		1
01656	Lithium	7439-93-2	15.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,070		2.75	10.8		1
06958	Manganese	7439-96-5	192		0.0845	0.542		1
10145	Phosphorus	7723-14-0	389		0.607	10.8		1
01662	Potassium	7440-09-7	2,990		19.5	54.2		1
01667	Sodium	7440-23-5	473		40.4	108		1
07968	Strontium	7440-24-6	13.5		0.0672	0.542		1
06969	Tin	7440-31-5	2.87	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,270		0.412	1.08		1
10146	Zirconium	7440-67-7	0.965	J	0.910	5.42		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.14		0.0858	0.429		2
06126	Barium	7440-39-3	63.5		0.116	0.429		2
06127	Beryllium	7440-41-7	0.402		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.0459	J	0.0429	0.107		2
06131	Chromium	7440-47-3	15.9		0.129	0.429		2
06132	Cobalt	7440-48-4	3.95		0.0215	0.107		2
06133	Copper	7440-50-8	4.80		0.0708	0.429		2
06135	Lead	7439-92-1	6.93		0.0112	0.215		2
06138	Molybdenum	7439-98-7	1.07		0.0536	0.107		2
06139	Nickel	7440-02-0	6.20		0.107	0.429		2
06141	Selenium	7782-49-2	0.183	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0203	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.410		0.0322	0.107		2
06148	Vanadium	7440-62-2	41.6		0.0236	0.107		2
06149	Zinc	7440-66-6	64.7		0.601	3.22		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.103		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.7		0.88	1.6		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	480		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.47		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	8.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-335-SA5B-SB-2.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011	21:09	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011	23:14	Sara E Johnson	23.95
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104823704	02/17/2011	12:02	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-335-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8311 SDG#: DE083-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:11	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104823704	02/17/2011 12:11	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104823704	02/17/2011 12:02	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 00:31	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/27/2011 01:11	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/26/2011 02:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/18/2011 12:29	Marie D John	22.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:03	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 15:37	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 18:19	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 04:15	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 00:52	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 20:48	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 18:45	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/24/2011 21:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1

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Analysis Report

Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8311 SDG#: DE083-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201B	03/03/2011 20:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11060621201B	03/03/2011 20:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 19:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 15:21	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 16:31	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201B	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201B	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11049182102A	02/18/2011 11:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039402A	02/18/2011 11:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-021611 Water
SSFL Area IV Collocated Soil Sampling
TB-021611

LLI Sample # WW 6208353
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 08:00

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8312 SDG#: DE083-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-021611 Water**
SSFL Area IV Collocated Soil Sampling
TB-021611

LLI Sample # WW 6208353
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 08:00

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

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

E8312 SDG#: DE083-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110482AA	02/17/2011	16:17	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110481AA	02/17/2011	15:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110481AA	02/17/2011	15:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110482AA	02/17/2011	16:17	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11053B20A	02/22/2011	22:43	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11053B20A	02/22/2011	22:43	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110482AA	Sample number(s): 6208350-6208352									
Acetone	6.7	U	6.7	8.0	ug/kg	105		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	93		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	81		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	105		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	96		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	81		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	91		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	83		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	78		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	75		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	99		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	95		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	72		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	106		43-146		
Chloroform	0.14	J	0.12	4.0	ug/kg	99		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	73		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	82		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	85		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	57		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	88		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	100		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	98		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	89		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	85		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	87		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	61		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	92		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	102		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	94		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	93		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	95		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	88		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	92		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	95		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	87		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	79*		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	82		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	87		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	90		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	79		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	68		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	67		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	84		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	81		75-120		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	90		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	65		61-134		
Methylene Chloride	0.39	J	0.24	4.0	ug/kg	93		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	90		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	93		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	85		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	91		77-120		
Toluene	0.11	J	0.08	4.0	ug/kg	92		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	75		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	67*		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	89		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	88		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	92		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	86		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	83		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	71		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	94		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	82		80-120		
Batch number: E110481AA	Sample number(s): 6208353									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101	106	80-123	4	30
Batch number: E110482AA	Sample number(s): 6208350-6208352									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	101	70-130	2	30
Batch number: Y110482AA	Sample number(s): 6208353									
Acetone	6	U	6.	20	ug/l	106	106	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	95	99	79-120	5	30
Bromobenzene	1	U	1.	5	ug/l	94	98	80-120	4	30
Bromochloromethane	1	U	1.	5	ug/l	100	105	80-120	5	30
Bromodichloromethane	1	U	1.	5	ug/l	88	92	80-120	5	30
Bromoform	1	U	1.	5	ug/l	73	77	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	95	99	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	104	108	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	92	95	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	93	99	78-120	5	30
tert-Butylbenzene	1	U	1.	5	ug/l	92	96	80-120	5	30
Carbon Tetrachloride	1	U	1.	5	ug/l	88	93	75-123	5	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	100	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	95	96	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	106	111	56-129	5	30
Chloroform	0.8	U	0.8	5	ug/l	96	100	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	95	98	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	96	99	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	94	97	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	79	81	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	91	56-126	5	30
Dibromochloromethane	1	U	1.	5	ug/l	83	87	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	97	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	96	100	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	91	96	80-120	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	97	80-120	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	93	95	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	76	78	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	97	102	79-120	5	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	106	109	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	87	91	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	100	80-120	5	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	96	80-120	4	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	99	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	99	103	80-120	4	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	95	77-124	5	30
1,1-Dichloropropene	1	U	1.	5	ug/l	97	100	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	89	93	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	93	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	94	99	79-120	5	30
Freon 113	2	U	2.	10	ug/l	81	83	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	106	108	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	83	86	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	100	103	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	94	98	77-120	4	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	98	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	101	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	99	104	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	97	98	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	96	100	80-120	4	30
Styrene	1	U	1.	5	ug/l	90	94	80-120	4	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	91	94	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	92	96	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	97	80-121	4	30
Toluene	0.7	U	0.7	5	ug/l	95	99	79-120	4	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	95	80-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	94	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	81	83	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	96	99	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	92	97	80-120	5	30
Trichlorofluoromethane	2	U	2.	5	ug/l	90	94	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	96	100	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	95	98	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	94	97	75-120	3	30
Vinyl Chloride	1	U	1.	5	ug/l	95	98	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	94	98	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	94	99	80-120	5	30

Batch number: 11052SLG026 Sample number(s): 6208342-6208352

Acenaphthene	17	U	17.	170	ug/kg	81		76-111
Aniline	170 U		170.	500	ug/kg	64		34-94
Anthracene	17	U	17.	170	ug/kg	102		76-112
Benzidine	1,200 U		1,200.	3,300	ug/kg	55		15-121
Benzo(a)anthracene	17	U	17.	170	ug/kg	102		73-112
Benzo(a)pyrene	17	U	17.	170	ug/kg	79		69-122
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	87		61-127
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	86		65-122
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	90		67-125
Benzoic acid	170 U		170.	500	ug/kg	109		62-113
Benzyl alcohol	170 U		170.	500	ug/kg	111		68-111
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	100		79-117
Di-n-butylphthalate	17	U	17.	170	ug/kg	102		79-112
Carbazole	17	U	17.	170	ug/kg	99		77-113

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	46		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	91		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	101		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	101		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	105		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	87		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	48		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	104		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	105		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	112		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	83		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	83		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	20	J	17.	330	ug/kg	84		75-117		
Fluoranthene	17	U	17.	170	ug/kg	107		78-116		
Fluorene	17	U	17.	170	ug/kg	82		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	86		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	80		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	90		64-119		
Isophorone	17	U	17.	170	ug/kg	99		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	100		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	87		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	88		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	100		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	86		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	84		51-117		
Phenanthrene	17	U	17.	170	ug/kg	104		77-113		
Phenol	17	U	17.	170	ug/kg	101		58-112		
Pyrene	17	U	17.	170	ug/kg	101		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11052SLJ026	Sample number(s): 6208342-6208352									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	102		63-120		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	99		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	101		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	112		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	105		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	116		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	112		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	115		65-131		
Di-n-butylphthalate	6.5	J	6.0	18	ug/kg	110		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	109		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	109		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	108		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		79-121		
Bis(2-Ethylhexyl)phthalate	9.4	J	6.0	18	ug/kg	108		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	108		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	99		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	107		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	98		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	109		56-121		
Batch number: 11060SLB026	Sample number(s): 6208350-6208352									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93		70-130		
Batch number: 11048A34A	Sample number(s): 6208350-6208352									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68		67-119		
Batch number: 11053B20A	Sample number(s): 6208353									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 110530007A	Sample number(s): 6208350-6208352									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	120		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	119	119	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	119	118	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	118		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
HMX	100 U		100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	116		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	105		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	110		80-120		
PETN	800 U		800.	2,400	ug/kg	120		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110530006A	Sample number(s): 6208350-6208352									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	97		80-126		
Batch number: 110540018A	Sample number(s): 6208348									
2,4-D	1.2	U	1.2	3.6	ug/kg	87		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	61		24-89		
2,4-DB	0.75	J	0.62	1.7	ug/kg	85		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	82		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	99		60-141		
MCPA	76	U	76.	250	ug/kg	81		34-113		
MCPP (Mecoprop)	210 J		75.	250	ug/kg	80		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	86		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	81		48-138		
Batch number: 110570005A	Sample number(s): 6208342-6208347,6208349									
2,4-D	1.2	U	1.2	3.6	ug/kg	84		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	53		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	84		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	87		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	139		62-170		
MCPA	76	U	76.	250	ug/kg	77		60-130		
MCPP (Mecoprop)	350		75.	250	ug/kg	69		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	87		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	84		68-114		
Batch number: 110540019A	Sample number(s): 6208344									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		85-115		
Batch number: 110520010A	Sample number(s): 6208342									
Aldrin	0.066	U	0.066	0.17	ug/kg	88		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	61		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	69		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	64		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	72		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	102		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	77		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	66		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	74		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	52		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	80		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	94		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	73		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	67		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	83		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	67		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	97		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	82		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110530013A	Sample number(s): 6208343-6208347,6208349-6208352									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	81	36-106	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	111		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110540017A	Sample number(s): 6208342,6208348									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	81	71	36-106	14	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	102		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110590001A	Sample number(s): 6208343-6208349									
Aldrin	0.066	U	0.066	0.17	ug/kg	85		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	61		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	72		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	64		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	75		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	102		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	78		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	69		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	74		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	52		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	83		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	98		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	74		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	67		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	94		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	64		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	94		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	82		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110530029A	Sample number(s): 6208350-6208352									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	91		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	80		66-113		
Batch number: 110490013A	Sample number(s): 6208350-6208352									
Ethanol	100 U		100.	500	ug/kg	92		75-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropanol	100 U		100.	500	ug/kg	97		75-125		
Methanol	100 U		100.	500	ug/kg	91		75-134		
Batch number: 110520024A	Sample number(s): 6208350-6208352									
Diethylene glycol	6.0	U	6.0	13	mg/kg	95		75-125		
Ethylene glycol	9.0	U	9.0	13	mg/kg	91		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	101		75-125		
Batch number: 110530028A	Sample number(s): 6208350-6208352									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	81		75-125		
Batch number: 110481026001A	Sample number(s): 6208342-6208352									
Antimony	0.0600	U	0.0600	0.200	mg/kg	94		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	107		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	103		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	110		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	112		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	107		82-118		
Copper	0.162	J	0.0660	0.400	mg/kg	113		80-120		
Lead	0.0131	J	0.0104	0.200	mg/kg	100		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	116		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	108		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	107		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	111		78-122		
Batch number: 110481026001B	Sample number(s): 6208342-6208352									
Selenium	0.0400	U	0.0400	0.400	mg/kg	110		79-122		
Batch number: 110481026001C	Sample number(s): 6208342-6208352									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	114		78-122		
Batch number: 110481026001D	Sample number(s): 6208342-6208352									
Barium	0.108	U	0.108	0.400	mg/kg	104		79-121		
Batch number: 110485708001	Sample number(s): 6208342-6208352									
Aluminum	5.03	U	5.03	20.0	mg/kg	99		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	97		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	99		61-110		
Lithium	0.63	J	0.22	2.0	mg/kg	105		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	104		81-119		
Phosphorus	1.08	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	101		78-110		
Sodium	37.3	U	37.3	100	mg/kg	99		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.35	J	1.00	10.0	mg/kg	108		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	106		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 110485711001	Sample number(s): 6208342-6208352									
Mercury	0.0028	U	0.0028	0.0989	mg/kg	91		88-123		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11053243201A	Sample number(s): 6208342-6208352									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	92		80-120		
Batch number: 11054102202A	Sample number(s): 6208350-6208352									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	95		80-120		
Batch number: 11055191201A	Sample number(s): 6208342-6208352									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	110		85-115		
Batch number: 11060621201A	Sample number(s): 6208342-6208351									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11060621201B	Sample number(s): 6208352									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11049039401B	Sample number(s): 6208342-6208346									
22a pH by 9045C						100		95-105		
Batch number: 11049039402A	Sample number(s): 6208347-6208352									
22a pH by 9045C						100		95-105		
Batch number: 11049182101B	Sample number(s): 6208342-6208346									
32a OR Potential						99		98-102		
Batch number: 11049182102A	Sample number(s): 6208347-6208352									
32a OR Potential						99		98-102		
Batch number: 11055162401A	Sample number(s): 6208342-6208349									
28a Moisture Content by 160.3						99		80-120		
Batch number: 11061162401B	Sample number(s): 6208350-6208352									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110482AA	Sample number(s): 6208350-6208352 UNSPK: P206985								
Acetone	88	88	15-210	12	30				
Benzene	99	93	55-143	18	30				
Bromobenzene	83	76	43-139	21	30				
Bromochloromethane	102	100	60-137	14	30				
Bromodichloromethane	95	90	53-136	18	30				
Bromoform	86	83	38-124	16	30				
Bromomethane	84	83	42-168	14	30				
2-Butanone	72	76	37-163	6	30				
n-Butylbenzene	81	68	30-146	28	30				
sec-Butylbenzene	80	69	33-157	26	30				
tert-Butylbenzene	76	68	41-152	23	30				

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Quality Control Summary

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Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbon Tetrachloride	110	100	45-153	21	30				
Chlorobenzene	95	85	49-135	23	30				
Chloroethane	74	69	39-152	19	30				
2-Chloroethyl Vinyl Ether	99	105	32-139	6	30				
Chloroform	105	98	61-142	19	30				
Chloromethane	83	82	51-163	13	30				
2-Chlorotoluene	84	75	42-146	23	30				
4-Chlorotoluene	83	77	39-145	20	30				
Chlorotrifluoroethene	70	70	70-130	2	30				
1,2-Dibromo-3-chloropropane	69	77	30-139	1	30				
Dibromochloromethane	98	91	51-128	19	30				
1,2-Dibromoethane	90	88	54-129	14	30				
Dibromomethane	95	90	57-130	17	30				
1,2-Dichlorobenzene	84	77	36-133	21	30				
1,3-Dichlorobenzene	81	73	34-134	23	30				
1,4-Dichlorobenzene	82	74	35-136	21	30				
Dichlorodifluoromethane	74	72	26-151	14	30				
1,1-Dichloroethane	99	94	63-142	17	30				
1,2-Dichloroethane	103	97	68-131	18	30				
1,1-Dichloroethene	105	100	61-149	17	30				
cis-1,2-Dichloroethene	101	96	60-136	17	30				
trans-1,2-Dichloroethene	103	96	59-142	19	30				
1,2-Dichloropropane	92	88	62-135	17	30				
1,3-Dichloropropane	90	88	58-129	15	30				
2,2-Dichloropropane	103	98	53-147	17	30				
1,1-Dichloropropene	97	91	54-145	18	30				
cis-1,3-Dichloropropene	81	77	51-131	16	30				
trans-1,3-Dichloropropene	80	78	49-129	14	30				
Ethylbenzene	88	77	44-141	26	30				
Freon 113	106	101	56-156	17	30				
Freon 133a	93	98	61-131	6	30				
Hexachlorobutadiene	68	60	10-155	23	30				
2-Hexanone	52	54	32-160	8	30				
Isopropylbenzene	81	69	38-144	27	30				
p-Isopropyltoluene	81	69	29-152	27	30				
Methyl Tertiary Butyl Ether	82	85	55-129	9	30				
4-Methyl-2-pentanone	52	57	46-139	5	30				
Methylene Chloride	97	103	61-141	6	30				
n-Propylbenzene	90	77	39-157	28	30				
Styrene	89	79	35-134	24	30				
1,1,1,2-Tetrachloroethane	100	91	52-130	21	30				
1,1,2,2-Tetrachloroethane	80	85	40-152	7	30				
Tetrachloroethene	96	85	42-149	25	30				
Toluene	96	86	50-146	23	30				
1,2,3-Trichlorobenzene	55	52	10-140	17	30				
1,2,4-Trichlorobenzene	51	48	10-136	19	30				
1,1,1-Trichloroethane	103	97	64-142	18	30				
1,1,2-Trichloroethane	95	92	54-139	15	30				
Trichloroethene	98	91	53-144	19	30				
Trichlorofluoromethane	105	99	47-163	18	30				
1,2,3-Trichloropropane	85	88	45-154	8	30				
1,2,4-Trimethylbenzene	85	75	37-149	25	30				
1,3,5-Trimethylbenzene	85	75	38-150	25	30				

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Reported: 03/21/11 at 05:37 AM

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Vinyl Chloride	83	83	50-154	12	30				
m+p-Xylene	94	81	44-137	27	30				
o-Xylene	83	72	42-137	26	30				
Batch number: E110482AA	Sample number(s): 6208350-6208352 UNSPK: P206985								
1,4-Dioxane	91	90	70-130	11	30				
Batch number: 11052SLG026	Sample number(s): 6208342-6208352 UNSPK: P206985								
Acenaphthene	96	101	75-115	5	30				
Aniline	72	66	35-95	8	30				
Anthracene	104	104	75-115	0	30				
Benzidine	33*	19*	35-141	56*	30				
Benzo(a)anthracene	112	110	65-122	2	30				
Benzo(a)pyrene	96	98	57-126	2	30				
Benzo(b)fluoranthene	103	98	59-125	5	30				
Benzo(g,h,i)perylene	98	102	59-127	3	30				
Benzo(k)fluoranthene	91	101	56-132	10	30				
Benzoic acid	93	99	10-173	7	30				
Benzyl alcohol	105	104	67-115	1	30				
4-Bromophenyl-phenylether	100	92	67-129	8	30				
Di-n-butylphthalate	100	99	67-123	1	30				
Carbazole	103	108	64-120	5	30				
4-Chloro-3-methylphenol	97	107	76-110	10	30				
4-Chloroaniline	62	70	23-95	11	30				
bis(2-Chloroethoxy)methane	93	102	75-104	9	30				
bis(2-Chloroethyl)ether	98	97	60-116	1	30				
bis(2-Chloroisopropyl)ether	98	98	55-142	0	30				
2-Chloronaphthalene	97	100	50-141	3	30				
2-Chlorophenol	102	100	73-121	1	30				
4-Chlorophenyl-phenylether	94	100	80-109	6	30				
Chrysene	88	118	62-128	29	30				
Dibenz(a,h)anthracene	99	99	65-125	0	30				
Dibenzofuran	97	102	71-112	5	30				
1,2-Dichlorobenzene	94	91	66-108	3	30				
1,3-Dichlorobenzene	91	78	63-109	15	30				
1,4-Dichlorobenzene	94	90	70-100	4	30				
3,3'-Dichlorobenzidine	57	89	16-119	44*	30				
2,4-Dichlorophenol	98	109	78-117	10	30				
2,4-Dimethylphenol	104	107	78-110	2	30				
3,5-Dimethylphenol	110	112	70-130	2	30				
4,6-Dinitro-2-methylphenol	79	72	24-116	10	30				
2,4-Dinitrophenol	54	54	20-143	0	30				
2,4-Dinitrotoluene	96	103	73-113	7	30				
2,6-Dinitrotoluene	97	105	69-123	8	30				
1,2-Diphenylhydrazine	104	107	71-129	4	30				
bis(2-Ethylhexyl)phthalate	114	111	63-122	3	30				
Fluoranthene	98	103	73-112	6	30				
Fluorene	92	103	77-111	11	30				
Hexachlorobenzene	107	105	77-114	2	30				
Hexachlorobutadiene	90	102	62-120	13	30				
Hexachlorocyclopentadiene	78	78	10-153	0	30				
Hexachloroethane	94	91	57-109	4	30				
Indeno(1,2,3-cd)pyrene	101	103	61-126	2	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isophorone	101	103*	73-102	3	30				
2-Methylphenol	94	101	75-111	7	30				
4-Methylphenol	95	96	71-111	1	30				
2-Nitroaniline	104	108	67-125	4	30				
3-Nitroaniline	103	104	59-122	1	30				
4-Nitroaniline	61	78	52-112	24	30				
Nitrobenzene	96	97	72-106	2	30				
2-Nitrophenol	102	109	74-115	7	30				
4-Nitrophenol	89	94	54-113	6	30				
N-Nitroso-di-n-propylamine	96	97	60-116	1	30				
N-Nitrosodiphenylamine	99	105	86-145	6	30				
Pentachlorophenol	96	102	28-127	6	30				
Phenanthrene	104	106	65-125	2	30				
Phenol	99	98	58-126	1	30				
Pyrene	113	127*	74-126	12	30				
1,2,4-Trichlorobenzene	102	102	72-115	0	30				
2,4,5-Trichlorophenol	100	105	78-109	5	30				
2,4,6-Trichlorophenol	106	109	77-115	3	30				
Batch number: 11052SLJ026	Sample number(s): 6208342-6208352 UNSPK: 6208342								
Acenaphthene	102	105	63-105	3	30				
Acenaphthylene	106	109	67-114	3	30				
Anthracene	105	115	60-122	8	30				
Benzo(a)anthracene	118	128	59-128	8	30				
Benzo(a)pyrene	104	114	45-138	8	30				
Benzo(b)fluoranthene	91	101	43-155	9	30				
Benzo(g,h,i)perylene	124	118	33-141	5	30				
Benzo(k)fluoranthene	92	99	42-144	7	30				
Butylbenzylphthalate	131	138	57-173	5	30				
Di-n-butylphthalate	108	106	65-148	2	30				
Chrysene	109	124	48-134	11	30				
Dibenz(a,h)anthracene	115	115	22-133	0	30				
Diethylphthalate	115	120	70-136	4	30				
Dimethylphthalate	110	114	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	144	153	39-167	4	30				
Fluoranthene	99	135	26-166	28	30				
Fluorene	99	103	66-122	4	30				
Indeno(1,2,3-cd)pyrene	114	115	21-143	1	30				
1-Methylnaphthalene	97	100	72-123	3	30				
2-Methylnaphthalene	88	90	64-103	2	30				
Naphthalene	94	96	61-102	2	30				
N-Nitrosodimethylamine	100	101	48-113	1	30				
Di-n-octylphthalate	103	77	40-192	16	30				
Phenanthrene	97	118	12-165	18	30				
Pyrene	114	135	15-153	16	30				
Batch number: 11060SLB026	Sample number(s): 6208350-6208352 UNSPK: P206985								
N-Nitrosodimethylamine	82	83	70-130	1	30				
Batch number: 11048A34A	Sample number(s): 6208350-6208352 UNSPK: P206985								
9a TPH by EPA 8015B Gas C5-C12	78	67	39-118	7	30				
Batch number: 110530007A	Sample number(s): 6208350-6208352 UNSPK: P206985								

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Amino-2,6-Dinitrotoluene	98	96	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	96	95	80-137	1	50				
1,3-Dinitrobenzene	99	97	38-166	2	50				
2,4-Dinitrotoluene	95	93	80-131	1	50				
2,6-Dinitrotoluene	98	94	80-127	4	50				
HMX	81	82	63-128	1	50				
Nitrobenzene	97	98	80-125	1	50				
Nitroglycerin	91	89	80-120	2	50				
2-Nitrotoluene	97	95	80-122	2	50				
3-Nitrotoluene	95	92	72-119	3	50				
4-Nitrotoluene	94	91	80-125	4	50				
PETN	98	97	80-121	1	50				
RDX	79	79	75-129	0	50				
Tetryl	80	76	55-174	5	50				
1,3,5-Trinitrobenzene	93	92	82-126	1	50				
2,4,6-Trinitrotoluene	99	97	82-130	2	50				
Batch number: 110530006A	Sample number(s): 6208350-6208352 UNSPK: 6208350								
17a Formaldehyde by 8315A	102	104	80-120	1	50				
Batch number: 110540018A	Sample number(s): 6208348 UNSPK: P208342								
2,4-D	79	100	28-161	23	35				
Dalapon	253*	67	12-86	116*	50				
2,4-DB	72	241*	20-170	108*	50				
Dicamba	-2*	-222*	33-120	126*	50				
Dinoseb	9	10	1-44	16	35				
2,4-DP (Dichlorprop)	105	114	55-141	8	50				
MCPA	235*	89	31-184	90*	50				
MCPP (Mecoprop)	104	155	16-174	40	50				
2,4,5-T	35	27	25-132	27	35				
2,4,5-TP	7*	23	10-183	20	35				
Batch number: 110570005A	Sample number(s): 6208342-6208347,6208349 UNSPK: 6208345								
2,4-D	56	63	17-180	11	35				
Dalapon	0*	39	10-125	200*	50				
2,4-DB	128	119	10-201	7	50				
Dicamba	205*	193*	10-190	6	50				
Dinoseb	19	22	10-46	16	35				
2,4-DP (Dichlorprop)	88	139	33-178	45	50				
MCPA	183	184	10-213	1	50				
MCPP (Mecoprop)	82	86	10-184	4	50				
2,4,5-T	57	40	10-156	35	35				
2,4,5-TP	93	87	24-141	7	35				
Batch number: 110540019A	Sample number(s): 6208344 UNSPK: p210672								
6a Perchlorate EPA 6850	103	109	80-120	6	20				
Batch number: 110520010A	Sample number(s): 6208342 UNSPK: P205494								
Aldrin	70	79	16-126	12	50				
Alpha BHC	58	64	10-129	10	50				
Beta BHC	50	59	14-147	17	50				
Gamma BHC - Lindane	58	52	10-140	11	50				
p,p-DDD	64	64	16-163	0	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p,p-DDE	118	137	18-161	14	50				
p,p-DDT	208*	215*	10-176	4	50				
Delta BHC	56	53	23-140	6	50				
Dieldrin	67	67	19-154	0	50				
Endosulfan I	18	0*	16-137	200*	50				
Endosulfan II	63	48	28-154	28	50				
Endosulfan Sulfate	68	68	21-160	0	50				
Endrin	0*	0*	11-149	0	50				
Endrin Aldehyde	52	65	10-148	23	35				
Endrin Ketone	47	52	22-165	9	50				
Heptachlor	52	52	13-126	0	50				
Heptachlor Epoxide	82	0*	13-157	200*	50				
Methoxychlor	43	67	32-147	44	50				
Batch number: 110540017A	Sample number(s): 6208342,6208348 UNSPK: P209557								
PCB-1016	61	84	29-146	32	50				
PCB-1260	74	98	39-149	26	50				
Batch number: 110590001A	Sample number(s): 6208343-6208349 UNSPK: P205495								
Aldrin	73	73	16-126	0	50				
Alpha BHC	52	64	10-129	21	50				
Beta BHC	166*	244*	14-147	25	50				
Gamma BHC - Lindane	64	55	10-140	15	50				
p,p-DDD	51	66	16-163	26	50				
p,p-DDE	97	98	18-161	1	50				
p,p-DDT	106	100	10-176	4	50				
Delta BHC	66	69	23-140	5	50				
Dieldrin	44	39	19-154	5	50				
Endosulfan I	36	26	16-137	33	50				
Endosulfan II	2*	3*	28-154	3	50				
Endosulfan Sulfate	40	49	21-160	10	50				
Endrin	42	45	11-149	7	50				
Endrin Aldehyde	23	21	10-148	4	35				
Endrin Ketone	40	56	22-165	27	50				
Heptachlor	-9*	-12*	13-126	5	50				
Heptachlor Epoxide	76	55	13-157	33	50				
Methoxychlor	58	24*	32-147	66*	50				
Batch number: 110530029A	Sample number(s): 6208350-6208352 UNSPK: 6208350								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	2133 (2)	5256 (2)	49-123	14	20				
EFH (C30 - C40)	16238 (2)	25509 (2)	49-123	16	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 110490013A	Sample number(s): 6208350-6208352 UNSPK: 6208351								
Ethanol	84	86	24-143	2	20				
Isopropanol	87	88	75-125	2	20				
Methanol	92	97	45-136	5	20				
Batch number: 110520024A	Sample number(s): 6208350-6208352 UNSPK: 6208350								

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Diethylene glycol	52*	73	59-109	33*	20				
Ethylene glycol	65	80	63-107	21*	20				
Propylene glycol	77	89	63-107	15	20				
Batch number: 110530028A	Sample number(s): 6208350-6208352 UNSPK: P206985								
m-Terphenyl	80	80	75-125	1	20				
o-Terphenyl	96	95	75-125	2	20				
p-Terphenyl	75	73*	75-125	2	20				
Batch number: 110481026001A	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
Antimony	41*	63*	75-125	29*	20	0.281	0.160 J	55* (1)	20
Arsenic	48*	117	75-125	18	20	5.74	4.55	23*	20
Beryllium	87	85	75-125	1	20	0.532	0.450	17 (1)	20
Cadmium	138*	182*	75-125	24*	20	0.274	0.367	29* (1)	20
Chromium	104	165*	75-125	16	20	24.4	22.7	7	20
Cobalt	140*	154*	75-125	8	20	7.71	5.90	27*	20
Copper	123	148*	75-125	9	20	14.0	11.1	23*	20
Lead	135 (2)	242 (2)	75-125	12	20	20.2	19.8	2	20
Nickel	131*	160*	75-125	9	20	16.3	13.2	21*	20
Silver	138*	156*	75-125	13	20	0.0787 J	0.185	81* (1)	20
Thallium	121	143*	75-125	9	20	0.366	0.228	47* (1)	20
Vanadium	59 (2)	143 (2)	75-125	14	20	47.7	38.0	22*	20
Zinc	58 (2)	183 (2)	75-125	13	20	82.6	73.9	11	20
Batch number: 110481026001B	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
Selenium	128*	157*	75-125	19	20	0.232 J	0.193 J	18 (1)	20
Batch number: 110481026001C	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
Molybdenum	136*	156*	75-125	13	20	0.991	0.846	16	20
Batch number: 110481026001D	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
Barium	-20 (2)	168 (2)	75-125	13	20	130	106	21*	20
Batch number: 110485708001	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
Aluminum	1237 (2)	1545 (2)	75-125	3	20	12,500	12,700	2	20
Boron	101	100	84-115	3	20	1.74 J	1.59 J	9 (1)	20
Calcium	181 (2)	183 (2)	75-125	1	20	2,150	2,180	1	20
Iron	218 (2)	661 (2)	75-125	3	20	15,400	15,700	2	20
Lithium	101	105	82-114	0	20	19.0	18.5	3	20
Magnesium	147 (2)	230 (2)	75-125	4	20	3,330	3,380	2	20
Manganese	98 (2)	101 (2)	75-125	0	20	293	290	1	20
Phosphorus	107 (2)	112 (2)	75-125	0	20	418	439	5	20
Potassium	124	137*	75-125	2	20	3,000	3,070	2	20
Sodium	99	101	75-125	1	20	62.1 J	62.2 J	0 (1)	20
Strontium	101	102	75-115	2	20	16.7	16.6	1	20
Tin	93	95	80-110	1	20	2.38 J	2.30 J	4 (1)	20
Titanium	291 (2)	312 (2)	75-125	1	20	1,020	1,020	0	20
Zirconium	94	96	75-125	1	20	2.02 J	2.33 J	14 (1)	20
Batch number: 110485711001	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
Mercury	103	97	65-135	7	20	0.0027 U	0.0029 J	200* (1)	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11053243201A	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
3a Cr VI by EPA 7199	82		75-125			0.42 J	0.41 J	2 (1)	20
Batch number: 11054102202A	Sample number(s): 6208350-6208352 UNSPK: P206985 BKG: P206985								
21a Cyanide by 9012B	98		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11055191201A	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
7a Perchlorate EPA 314.0	106		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11060621201A	Sample number(s): 6208342-6208351 UNSPK: 6208343 BKG: 6208343								
11a Anions by 300.0 - Fluoride	51*		80-120			1.5	1.7	10 (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			2.2	2.3	5 (1)	20
Batch number: 11060621201B	Sample number(s): 6208352 UNSPK: 6208352 BKG: 6208352								
11a Anions by 300.0 - Fluoride	93		80-120			2.7	2.6	6 (1)	20
11a Anions by 300.0 - Nitrate	102		80-120			3.4	3.4	0 (1)	20
Batch number: 11049039401B	Sample number(s): 6208342-6208346 BKG: P206985								
22a pH by 9045C						7.00	7.00	0	1
Batch number: 11049039402A	Sample number(s): 6208347-6208352 BKG: 6208347								
22a pH by 9045C						6.69	6.69	0	1
Batch number: 11049182101B	Sample number(s): 6208342-6208346 BKG: P206985								
32a OR Potential						535	535	0	6
Batch number: 11049182102A	Sample number(s): 6208347-6208352 BKG: 6208347								
32a OR Potential						493	494	0	6
Batch number: 11055162401A	Sample number(s): 6208342-6208349 BKG: 6208348								
28a Moisture Content by 160.3						9.6	6.7	35*	20
Batch number: 11061162401B	Sample number(s): 6208350-6208352 BKG: P206985								
28a Moisture Content by 160.3						8.3	9.2	10	20

Surrogate Quality Control

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

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110482AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6208350	112	106	98	87
6208351	113	107	97	88
6208352	112	105	96	86
Blank	115	110	96	87
LCS	105	104	105	107
MS	103	102	106	104

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Surrogate Quality Control

MSD	103	105	105	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110481AA

	Toluene-d8
6208353	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110482AA

	Toluene-d8
6208350	95
6208351	95
6208352	95
Blank	96
LCS	95
LCSD	95
MS	95
MSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110482AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6208353	101	102	105	99
Blank	102	103	105	99
LCS	103	105	106	100
LCSD	103	103	105	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11052SLG026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6208342	97	98	87	94	92	89
6208343	100	100	85	97	95	91
6208344	70	72	68	75	71	66
6208345	94	96	94	95	94	92
6208346	96	97	93	94	94	90
6208347	96	99	90	97	96	87
6208348	94	96	89	96	94	87
6208349	97	99	91	94	94	87
6208350	91	94	86	93	93	84
6208351	93	94	88	95	93	85
6208352	91	95	92	95	93	87
Blank	88	92	99	93	92	91

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Surrogate Quality Control

LCS	102	99	92	88	80	87
MS	98	95	86	94	89	97
MSD	99	98	100	91	95	106
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11052SLJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6208342	114	95	108
6208343	114	91	108
6208344	119	86	80
6208345	115	95	93
6208346	116	92	91
6208347	117	95	89
6208348	118	97	97
6208349	129	93	96
6208350	117	87	99
6208351	119	87	98
6208352	123	90	101
Blank	114	103	125
LCS	116	88	103
MS	139*	95	108
MSD	138*	98	110
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11060SLB026

	N-Nitrosodimethylamine-d6
6208350	96
6208351	93
6208352	99
Blank	92
LCS	93
MS	99
MSD	112
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11048A34A

	Trifluorotoluene-F
6208350	78
6208351	79
6208352	78
Blank	80
LCS	87
MS	81
MSD	82
Limits:	61-122

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Surrogate Quality Control

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11053B20A

	Trifluorotoluene-F
6208353	85
Blank	87
LCS	113
LCSD	115
Limits:	63-135

Analysis Name: 12a Pesticides by 8081A
Batch number: 110520010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6208342	73	43
Blank	1*	0*
LCS	1*	0*
MS	2*	43
MSD	1*	36
Limits:	50-130	20-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110530006A

	Butyraldehyde
6208350	110
6208351	107
6208352	115
Blank	118
LCS	121
MS	117
MSD	112
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110530007A

	2-Nitro-m-xylene
6208350	112
6208351	116
6208352	102
Blank	116
LCS	130
LCSD	125
MS	104
MSD	108
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110530013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6208343	110	130*

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Surrogate Quality Control

6208344	119	130*
6208345	108	112
6208346	114	116
6208347	130	144*
6208349	118	135*
6208350	122	119
6208351	117	114
6208352	96	100
Blank	103	109
LCS	105	115
LCSD	103	110
Limits:	53-139	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110540017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6208342	124	141*
6208348	88	99
Blank	74	118
LCS	88	104
LCSD	99	100
MS	68	85
MSD	88	111
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110540018A

	2,4-Dichlorophenylacetic acid
6208348	69
Blank	96
LCS	92
MS	142
MSD	69
Limits:	36-156

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110570005A

	2,4-Dichlorophenylacetic acid
6208342	91
6208343	76
6208344	90
6208345	108
6208346	88
6208347	120
6208349	64
Blank	80
LCS	82
MS	105
MSD	96

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Surrogate Quality Control

Limits: 36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 110590001A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6208343	52	45
6208344	66	56
6208345	56	35
6208346	72	57
6208347	69	1024*
6208348	61	63
6208349	59	50
Blank	50	80
LCS	61	86
MS	66	114
MSD	63	33
Limits:	50-130	20-120

Analysis Name: 25a Alcohols by 8015B
Batch number: 110490013A

	Acetone
6208350	78
6208351	84
6208352	81
Blank	94
LCS	94
MS	82
MSD	83
Limits:	42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 110520024A

	Tetramethylene glycol
6208350	74
6208351	57
6208352	54
Blank	110
LCS	107
MS	101
MSD	92
Limits:	29-137

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110530028A

	n-Triacontane-d62
6208350	427*
6208351	196*
6208352	78
Blank	80

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Surrogate Quality Control

LCS	78
MS	85
MSD	81
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110530029A

	Chlorobenzene	Orthoterphenyl
6208350	62	97
6208351	61	82
6208352	65	77
Blank	78	89
LCS	80	91
MS	66	104
MSD	56	89
Limits:	37-125	47-145

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

acct# 13013 Cap# 1233566 sample# 6208342-53

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 8850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-024-SA5A-SS-0.0-0.5	2.16.2011	1030	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-024-SA5A-SS-0.0-0.5	2.16.2011	1030	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-025-SA5A-SS-0.0-0.5	2.16.2011	1328	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-025-SA5A-SS-0.0-0.5	2.16.2011	1328	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-026-SA5A-SS-0.0-0.5	2.16.2011	1045	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X														
SL-026-SA5A-SS-0.0-0.5	2.16.2011	1045	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-028-SA5A-SS-0.0-0.5	2.16.2011	1255	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-028-SA5A-SS-0.0-0.5	2.16.2011	1255	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-029-SA5A-SS-0.0-0.5	2.16.2011	1310	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-029-SA5A-SS-0.0-0.5	2.16.2011	1310	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-031-SA5A-SS-0.0-0.5	2.16.2011	1110	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-031-SA5A-SS-0.0-0.5	2.16.2011	1110	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-032-SA5A-SS-0.0-0.5	2.16.2011	0920	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-032-SA5A-SS-0.0-0.5	2.16.2011	0920	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-041-SA5A-SS-0.0-0.5	2.16.2011	930	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-041-SA5A-SS-0.0-0.5	2.16.2011	930	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-332-SA5B-SB-4.0-5.0	2.16.2011	1616	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-332-SA5B-SB-4.5	2.16.2011	1610	SOIL	NONE	5-Encores											X	X	X											
SL-333-SA5B-SB-4.0-5.0	2.16.2011	1230	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-333-SA5B-SB-4.5	2.16.2011	1226	SOIL	NONE	5-Encores											X	X	X											
SL-335-SA5B-SB-2.0-3.0	2.16.2011	1057	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-335-SA5B-SB-2.5	2.16.2011	1050	SOIL	NONE	5-Encores											X	X	X											
TB-021611	2.16.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 02/16/2011 / 17:00

Received by: (*Signature*) — Date/Time:

Received for Laboratory by: (*Signature*) 2/17/11 845

Airbill No.(s): 8695 1432 3130, ...3140

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

March 23, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/17/2011
Group Number: 1233568
SDG: DX051
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-024-SA5A-SS-0.0-0.5 Soil	6208374
SL-025-SA5A-SS-0.0-0.5 Soil	6208375
SL-026-SA5A-SS-0.0-0.5 Soil	6208376
SL-028-SA5A-SS-0.0-0.5 Soil	6208377
SL-029-SA5A-SS-0.0-0.5 Soil	6208378
SL-031-SA5A-SS-0.0-0.5 Soil	6208379
SL-032-SA5A-SS-0.0-0.5 Soil	6208380
SL-041-SA5A-SS-0.0-0.5 Soil	6208381
SL-332-SA5B-SB-4.0-5.0 Soil	6208382
SL-333-SA5B-SB-4.0-5.0 Soil	6208383
SL-335-SA5B-SB-2.0-3.0 Soil	6208384

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

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208374
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5101 SDG#: DX051-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

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

Sample Description: SL-024-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208374
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5101 SDG#: DX051-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0951	JQ	0.00936	1.09	1
11031	12378-PeCDD	40321-76-4	0.535	JBQ	0.0456	5.44	1
11031	123478-HxCDD	39227-28-6	0.855	J	0.303	5.44	1
11031	123678-HxCDD	57653-85-7	2.58	JB	0.255	5.44	1
11031	123789-HxCDD	19408-74-3	2.09	J	0.0799	5.44	1
11031	1234678-HpCDD	35822-46-9	69.1	B	0.117	5.44	1
11031	OCDD	3268-87-9	1,200	B	0.137	10.9	1
11031	2378-TCDF	51207-31-9	0.483	JB	0.0421	1.09	1
11031	12378-PeCDF	57117-41-6	0.196	JB	0.0396	5.44	1
11031	23478-PeCDF	57117-31-4	0.983	JB	0.0624	5.44	1
11031	123478-HxCDF	70648-26-9	0.440	U	0.440	5.44	1
11031	123678-HxCDF	57117-44-9	0.492	JB	0.277	5.44	1
11031	123789-HxCDF	72918-21-9	0.454	JB	0.0347	5.44	1
11031	234678-HxCDF	60851-34-5	0.509	JB	0.0656	5.44	1
11031	1234678-HpCDF	67562-39-4	7.36	B	0.218	5.44	1
11031	1234789-HpCDF	55673-89-7	0.440	JB	0.0639	5.44	1
11031	OCDF	39001-02-0	22.9	B	0.0812	10.9	1

The recoveries of several labeled compounds were outside QC limits in this sample. Sufficient sample was not available to perform a re-extraction.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	27	25 - 181
13C12-123478-HxCDD	12	32 - 141
13C12-123678-HxCDD	14	28 - 130
13C12-123789-HxCDD	41	28 - 130
13C12-1234678-HpCDD	22	23 - 140
13C12-OCDD	24	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	36	24 - 185
13C12-23478-PeCDF	21	21 - 178
13C12-123478-HxCDF	5	26 - 152
13C12-123678-HxCDF	7	26 - 123
13C12-234678-HxCDF	30	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	7	28 - 143
13C12-1234789-HpCDF	27	26 - 138
13C12-OCDF	17	17 - 157
13C12-1278-TCDD (CRS)	21	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

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

Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208374
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5101 SDG#: DX051-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208374
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5101 SDG#: DX051-01

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 02:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208375
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5102 SDG#: DX051-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

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

Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208375
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5102 SDG#: DX051-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0890	JQ	0.0176	1.17	1
11031	12378-PeCDD	40321-76-4	0.843	JB	0.0463	5.83	1
11031	123478-HxCDD	39227-28-6	1.25	J	0.131	5.83	1
11031	123678-HxCDD	57653-85-7	3.46	JB	0.122	5.83	1
11031	123789-HxCDD	19408-74-3	2.78	J	0.115	5.83	1
11031	1234678-HpCDD	35822-46-9	80.6	B	0.106	5.83	1
11031	OCDD	3268-87-9	1,220	B	0.182	11.7	1
11031	2378-TCDF	51207-31-9	0.906	JB	0.108	1.17	1
11031	12378-PeCDF	57117-41-6	0.0572	U	0.0572	5.83	1
11031	23478-PeCDF	57117-31-4	1.65	JB	0.0589	5.83	1
11031	123478-HxCDF	70648-26-9	0.128	U	0.128	5.83	1
11031	123678-HxCDF	57117-44-9	0.638	JB	0.0881	5.83	1
11031	123789-HxCDF	72918-21-9	0.339	JBQ	0.0803	5.83	1
11031	234678-HxCDF	60851-34-5	0.746	JB	0.0656	5.83	1
11031	1234678-HpCDF	67562-39-4	8.99	B	0.0512	5.83	1
11031	1234789-HpCDF	55673-89-7	0.560	JB	0.0558	5.83	1
11031	OCDF	39001-02-0	25.0	B	0.0556	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208375
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5102 SDG#: DX051-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208375
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5102 SDG#: DX051-02

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 03:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208376
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5103 SDG#: DX051-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

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

Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208376
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5103 SDG#: DX051-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0729	JQ	0.0163	1.12	1
11031	12378-PeCDD	40321-76-4	0.855	JB	0.0396	5.61	1
11031	123478-HxCDD	39227-28-6	1.44	J	0.0920	5.61	1
11031	123678-HxCDD	57653-85-7	3.23	JB	0.0886	5.61	1
11031	123789-HxCDD	19408-74-3	2.64	J	0.0816	5.61	1
11031	1234678-HpCDD	35822-46-9	82.9	B	0.0895	5.61	1
11031	OCDD	3268-87-9	911	B	0.104	11.2	1
11031	2378-TCDF	51207-31-9	0.486	JBQ	0.0825	1.12	1
11031	12378-PeCDF	57117-41-6	0.168	JB	0.0464	5.61	1
11031	23478-PeCDF	57117-31-4	1.22	JB	0.0464	5.61	1
11031	123478-HxCDF	70648-26-9	0.488	JB	0.0887	5.61	1
11031	123678-HxCDF	57117-44-9	0.522	JB	0.0643	5.61	1
11031	123789-HxCDF	72918-21-9	0.296	JB	0.0567	5.61	1
11031	234678-HxCDF	60851-34-5	0.783	JB	0.0508	5.61	1
11031	1234678-HpCDF	67562-39-4	10.5	B	0.0545	5.61	1
11031	1234789-HpCDF	55673-89-7	0.778	JB	0.0571	5.61	1
11031	OCDF	39001-02-0	30.9	B	0.0398	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	94	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	107	24 - 169
13C12-12378-PeCDF	111	24 - 185
13C12-23478-PeCDF	104	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	101	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	108	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208376
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5103 SDG#: DX051-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208376
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5103 SDG#: DX051-03

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 04:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208377
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5104 SDG#: DX051-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

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

Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208377
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5104 SDG#: DX051-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0435	JQ	0.0111	1.11	1
11031	12378-PeCDD	40321-76-4	0.222	JB	0.0222	5.54	1
11031	123478-HxCDD	39227-28-6	0.290	JQ	0.0649	5.54	1
11031	123678-HxCDD	57653-85-7	1.08	JB	0.0665	5.54	1
11031	123789-HxCDD	19408-74-3	1.08	J	0.0631	5.54	1
11031	1234678-HpCDD	35822-46-9	23.8	B	0.0608	5.54	1
11031	OCDD	3268-87-9	322	B	0.0761	11.1	1
11031	2378-TCDF	51207-31-9	0.0329	JB	0.0173	1.11	1
11031	12378-PeCDF	57117-41-6	0.0648	JBQ	0.00898	5.54	1
11031	23478-PeCDF	57117-31-4	0.130	JB	0.00987	5.54	1
11031	123478-HxCDF	70648-26-9	0.246	JB	0.0274	5.54	1
11031	123678-HxCDF	57117-44-9	0.181	JB	0.0210	5.54	1
11031	123789-HxCDF	72918-21-9	0.243	JB	0.0278	5.54	1
11031	234678-HxCDF	60851-34-5	0.171	JB	0.0218	5.54	1
11031	1234678-HpCDF	67562-39-4	2.65	JB	0.0204	5.54	1
11031	1234789-HpCDF	55673-89-7	0.190	JB	0.0374	5.54	1
11031	OCDF	39001-02-0	6.52	JB	0.0376	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	106	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208377
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5104 SDG#: DX051-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208377
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5104 SDG#: DX051-04

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 04:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208378
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5105 SDG#: DX051-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

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

Sample Description: **SL-029-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208378
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5105 SDG#: DX051-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0482	J	0.0118	1.13	1
11031	12378-PeCDD	40321-76-4	0.344	JB	0.0231	5.66	1
11031	123478-HxCDD	39227-28-6	0.453	J	0.0877	5.66	1
11031	123678-HxCDD	57653-85-7	1.49	JB	0.0803	5.66	1
11031	123789-HxCDD	19408-74-3	1.43	J	0.0632	5.66	1
11031	1234678-HpCDD	35822-46-9	39.4	B	0.0690	5.66	1
11031	OCDD	3268-87-9	528	B	0.0723	11.3	1
11031	2378-TCDF	51207-31-9	0.169	JB	0.0447	1.13	1
11031	12378-PeCDF	57117-41-6	0.0983	JBQ	0.0227	5.66	1
11031	23478-PeCDF	57117-31-4	0.404	JB	0.0247	5.66	1
11031	123478-HxCDF	70648-26-9	0.0689	U	0.0689	5.66	1
11031	123678-HxCDF	57117-44-9	0.247	JB	0.0472	5.66	1
11031	123789-HxCDF	72918-21-9	0.167	JB	0.0323	5.66	1
11031	234678-HxCDF	60851-34-5	0.213	JB	0.0277	5.66	1
11031	1234678-HpCDF	67562-39-4	3.56	JB	0.0401	5.66	1
11031	1234789-HpCDF	55673-89-7	0.281	JB	0.0378	5.66	1
11031	OCDF	39001-02-0	10.1	JB	0.0490	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208378
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5105 SDG#: DX051-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208378
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5105 SDG#: DX051-05

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 05:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208379
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5106 SDG#: DX051-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

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

Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208379
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5106 SDG#: DX051-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.306 J	0.0176	1.13	1
11031	12378-PeCDD	40321-76-4	3.95 JB	0.0934	5.65	1
11031	123478-HxCDD	39227-28-6	9.53	0.181	5.65	1
11031	123678-HxCDD	57653-85-7	35.3 B	0.175	5.65	1
11031	123789-HxCDD	19408-74-3	17.3	0.125	5.65	1
11031	1234678-HpCDD	35822-46-9	1,070 B	0.227	5.65	1
11031	OCDD	3268-87-9	10,600 EB	0.294	11.3	1
11031	2378-TCDF	51207-31-9	0.491 JB	0.0267	1.13	1
11031	12378-PeCDF	57117-41-6	2.34 JB	0.0278	5.65	1
11031	23478-PeCDF	57117-31-4	3.91 JB	0.0279	5.65	1
11031	123478-HxCDF	70648-26-9	17.0 B	0.147	5.65	1
11031	123678-HxCDF	57117-44-9	5.45 JB	0.114	5.65	1
11031	123789-HxCDF	72918-21-9	6.70 B	0.0751	5.65	1
11031	234678-HxCDF	60851-34-5	7.36 B	0.0832	5.65	1
11031	1234678-HpCDF	67562-39-4	142 B	0.130	5.65	1
11031	1234789-HpCDF	55673-89-7	11.9 B	0.114	5.65	1
11031	OCDF	39001-02-0	223 B	0.0845	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	92	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	47	28 - 143

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

Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208379
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5106 SDG#: DX051-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208379
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5106 SDG#: DX051-06

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 06:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208380
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5107 SDG#: DX051-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

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

Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208380
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5107 SDG#: DX051-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0346	JQ	0.0117	1.11	1
11031	12378-PeCDD	40321-76-4	0.362	JBQ	0.0256	5.53	1
11031	123478-HxCDD	39227-28-6	0.376	J	0.0739	5.53	1
11031	123678-HxCDD	57653-85-7	1.16	JB	0.0713	5.53	1
11031	123789-HxCDD	19408-74-3	1.13	J	0.0645	5.53	1
11031	1234678-HpCDD	35822-46-9	26.4	B	0.0488	5.53	1
11031	OCDD	3268-87-9	452	B	0.0768	11.1	1
11031	2378-TCDF	51207-31-9	0.223	JB	0.0363	1.11	1
11031	12378-PeCDF	57117-41-6	0.220	JBQ	0.0215	5.53	1
11031	23478-PeCDF	57117-31-4	0.352	JB	0.0225	5.53	1
11031	123478-HxCDF	70648-26-9	0.208	JBQ	0.0534	5.53	1
11031	123678-HxCDF	57117-44-9	0.207	JBQ	0.0409	5.53	1
11031	123789-HxCDF	72918-21-9	0.354	JB	0.0463	5.53	1
11031	234678-HxCDF	60851-34-5	0.259	JB	0.0366	5.53	1
11031	1234678-HpCDF	67562-39-4	2.86	JB	0.0221	5.53	1
11031	1234789-HpCDF	55673-89-7	0.212	JBQ	0.0355	5.53	1
11031	OCDF	39001-02-0	8.07	JB	0.0366	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208380
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5107 SDG#: DX051-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208380
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5107 SDG#: DX051-07

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 07:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208381
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5108 SDG#: DX051-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

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

Sample Description: **SL-041-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208381
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5108 SDG#: DX051-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0846	JQ	0.0123	1.11	1
11031	12378-PeCDD	40321-76-4	0.640	JB	0.0349	5.54	1
11031	123478-HxCDD	39227-28-6	1.12	J	0.0843	5.54	1
11031	123678-HxCDD	57653-85-7	2.96	JB	0.0831	5.54	1
11031	123789-HxCDD	19408-74-3	2.58	J	0.0776	5.54	1
11031	1234678-HpCDD	35822-46-9	85.9	B	0.0979	5.54	1
11031	OCDD	3268-87-9	1,530	B	0.0993	11.1	1
11031	2378-TCDF	51207-31-9	0.184	JBQ	0.0279	1.11	1
11031	12378-PeCDF	57117-41-6	0.195	JB	0.0186	5.54	1
11031	23478-PeCDF	57117-31-4	0.363	JBQ	0.0190	5.54	1
11031	123478-HxCDF	70648-26-9	0.941	JB	0.0587	5.54	1
11031	123678-HxCDF	57117-44-9	0.423	JB	0.0412	5.54	1
11031	123789-HxCDF	72918-21-9	0.334	JB	0.0432	5.54	1
11031	234678-HxCDF	60851-34-5	0.589	JB	0.0361	5.54	1
11031	1234678-HpCDF	67562-39-4	13.0	B	0.0372	5.54	1
11031	1234789-HpCDF	55673-89-7	0.877	JB	0.0549	5.54	1
11031	OCDF	39001-02-0	46.4	B	0.0472	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208381
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5108 SDG#: DX051-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-041-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208381
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5108 SDG#: DX051-08

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 08:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-332-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208382
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5109 SDG#: DX051-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.1	0.50	0.50	1

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

Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208382
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5109 SDG#: DX051-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0329	J	0.0154	1.10	1
11031	12378-PeCDD	40321-76-4	0.131	JBQ	0.0410	5.50	1
11031	123478-HxCDD	39227-28-6	0.175	JB	0.0592	5.50	1
11031	123678-HxCDD	57653-85-7	1.05	JB	0.0605	5.50	1
11031	123789-HxCDD	19408-74-3	0.682	JB	0.0592	5.50	1
11031	1234678-HpCDD	35822-46-9	44.3	B	0.0887	5.50	1
11031	OCDD	3268-87-9	441	B	0.125	11.0	1
11031	2378-TCDF	51207-31-9	0.136	JB	0.0479	1.10	1
11031	12378-PeCDF	57117-41-6	0.0829	JBQ	0.0318	5.50	1
11031	23478-PeCDF	57117-31-4	0.878	JBQ	0.0299	5.50	1
11031	123478-HxCDF	70648-26-9	0.470	JB	0.0453	5.50	1
11031	123678-HxCDF	57117-44-9	0.394	JB	0.0428	5.50	1
11031	123789-HxCDF	72918-21-9	0.265	JBQ	0.0523	5.50	1
11031	234678-HxCDF	60851-34-5	0.363	JB	0.0444	5.50	1
11031	1234678-HpCDF	67562-39-4	4.29	JB	0.0497	5.50	1
11031	1234789-HpCDF	55673-89-7	0.575	JB	0.0594	5.50	1
11031	OCDF	39001-02-0	7.91	JB	0.115	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	93	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	97	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	95	26 - 152
13C12-123678-HxCDF	98	26 - 123
13C12-234678-HxCDF	100	28 - 136
13C12-123789-HxCDF	95	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	109	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

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Analysis Report

Sample Description: **SL-332-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208382
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5109 SDG#: DX051-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-332-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208382
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5109 SDG#: DX051-09

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11073001	03/17/2011 03:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11073001	03/14/2011 13:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-333-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208383
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5110 SDG#: DX051-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

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

Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208383
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5110 SDG#: DX051-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0454	J	0.0157	1.14	1
11031	12378-PeCDD	40321-76-4	0.263	JBQ	0.0489	5.71	1
11031	123478-HxCDD	39227-28-6	0.652	J	0.0923	5.71	1
11031	123678-HxCDD	57653-85-7	1.20	JB	0.0913	5.71	1
11031	123789-HxCDD	19408-74-3	1.22	J	0.0899	5.71	1
11031	1234678-HpCDD	35822-46-9	48.9	B	0.110	5.71	1
11031	OCDD	3268-87-9	683	B	0.0585	11.4	1
11031	2378-TCDF	51207-31-9	0.0177	U	0.0177	1.14	1
11031	12378-PeCDF	57117-41-6	0.0591	JBQ	0.0200	5.71	1
11031	23478-PeCDF	57117-31-4	0.665	JB	0.0207	5.71	1
11031	123478-HxCDF	70648-26-9	0.961	JB	0.0866	5.71	1
11031	123678-HxCDF	57117-44-9	0.768	JB	0.0589	5.71	1
11031	123789-HxCDF	72918-21-9	0.847	JB	0.0534	5.71	1
11031	234678-HxCDF	60851-34-5	0.493	JB	0.0503	5.71	1
11031	1234678-HpCDF	67562-39-4	7.33	B	0.0566	5.71	1
11031	1234789-HpCDF	55673-89-7	0.866	JB	0.0640	5.71	1
11031	OCDF	39001-02-0	16.9	B	0.0257	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Sample Description: **SL-333-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208383
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5110 SDG#: DX051-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-333-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208383
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5110 SDG#: DX051-10

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/04/2011 12:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-335-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208384
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5111 SDG#: DX051-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

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

Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208384
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5111 SDG#: DX051-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0105 U	0.0105	1.09	1
11031	12378-PeCDD	40321-76-4	0.0177 JBQ	0.0121	5.47	1
11031	123478-HxCDD	39227-28-6	0.0252 U	0.0252	5.47	1
11031	123678-HxCDD	57653-85-7	0.212 JB	0.0223	5.47	1
11031	123789-HxCDD	19408-74-3	0.242 J	0.0171	5.47	1
11031	1234678-HpCDD	35822-46-9	1.32 JB	0.0322	5.47	1
11031	OCDD	3268-87-9	14.6 B	0.0199	10.9	1
11031	2378-TCDF	51207-31-9	0.00864 U	0.00864	1.09	1
11031	12378-PeCDF	57117-41-6	0.0174 JBQ	0.00580	5.47	1
11031	23478-PeCDF	57117-31-4	0.0519 JBQ	0.00667	5.47	1
11031	123478-HxCDF	70648-26-9	0.0298 JB	0.0231	5.47	1
11031	123678-HxCDF	57117-44-9	0.126 JBQ	0.0164	5.47	1
11031	123789-HxCDF	72918-21-9	0.0662 JBQ	0.00974	5.47	1
11031	234678-HxCDF	60851-34-5	0.0194 JB	0.00842	5.47	1
11031	1234678-HpCDF	67562-39-4	0.150 JB	0.0196	5.47	1
11031	1234789-HpCDF	55673-89-7	0.0511 JB	0.0129	5.47	1
11031	OCDF	39001-02-0	0.328 JBQ	0.0193	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	57	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	43	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	43	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-335-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208384
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

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

X5111 SDG#: DX051-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-335-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

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Suite 210
Chantilly VA 20151

X5111 SDG#: DX051-11

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/04/2011 13:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233568
Reported: 03/23/11 at 08:40 AM

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11055162401A	Sample number(s): 6208374-6208381								
28a Moisture Content by 160.3					99		80-120		
Batch number: 11061162401B	Sample number(s): 6208382-6208384								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11054001	Sample number(s): 6208374-6208381,6208383-6208384								
2378-TCDD	0.00940 U	0.00940	1.00	ng/kg	111		67-158		
12378-PeCDD	0.0223 J	0.00940	5.00	ng/kg	113		70-142		
123478-HxCDD	0.00940 U	0.00940	5.00	ng/kg	112		70-164		
123678-HxCDD	0.0141 J	0.00960	5.00	ng/kg	109		76-134		
123789-HxCDD	0.00920 U	0.00920	5.00	ng/kg	110		64-162		
1234678-HpCDD	0.119 J	0.0138	5.00	ng/kg	108		70-140		
OCDD	0.303 J	0.0185	10.0	ng/kg	106		78-144		
2378-TCDF	0.0106 J	0.00690	1.00	ng/kg	124		75-158		
12378-PeCDF	0.0154 J	0.00530	5.00	ng/kg	109		80-134		
23478-PeCDF	0.0405 J	0.00530	5.00	ng/kg	110		68-160		
123478-HxCDF	0.0161 J	0.00660	5.00	ng/kg	109		72-134		
123678-HxCDF	0.0176 J	0.00570	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0361 J	0.00650	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0143 J	0.00560	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.0451 J	0.00530	5.00	ng/kg	105		82-122		
1234789-HpCDF	0.0280 J	0.00830	5.00	ng/kg	105		78-138		
OCDF	0.133 J	0.0169	10.0	ng/kg	106		63-170		
Batch number: 11073001	Sample number(s): 6208382								
2378-TCDD	0.00850 U	0.00850	1.00	ng/kg	87		67-158		
12378-PeCDD	0.0159 J	0.00920	5.00	ng/kg	88		70-142		
123478-HxCDD	0.00942 J	0.00930	5.00	ng/kg	86		70-164		
123678-HxCDD	0.0267 J	0.00950	5.00	ng/kg	88		76-134		
123789-HxCDD	0.0153 J	0.00880	5.00	ng/kg	86		64-162		
1234678-HpCDD	0.208 J	0.0138	5.00	ng/kg	86		70-140		
OCDD	0.397 J	0.0113	10.0	ng/kg	87		78-144		
2378-TCDF	0.0133 J	0.00870	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0184 J	0.00490	5.00	ng/kg	84		80-134		
23478-PeCDF	0.0583 J	0.00520	5.00	ng/kg	84		68-160		
123478-HxCDF	0.0547 J	0.0101	5.00	ng/kg	86		72-134		
123678-HxCDF	0.0394 J	0.00790	5.00	ng/kg	85		84-130		
123789-HxCDF	0.0578 J	0.0111	5.00	ng/kg	85		78-130		
234678-HxCDF	0.0651 J	0.00870	5.00	ng/kg	86		70-156		
1234678-HpCDF	0.181 J	0.00630	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.0599 J	0.0120	5.00	ng/kg	87		78-138		
OCDF	0.242 J	0.0177	10.0	ng/kg	85		63-170		

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233568
Reported: 03/23/11 at 08:40 AM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11055162401A	Sample number(s): 6208374-6208381					BKG: P208348			
28a Moisture Content by 160.3						9.6	6.7	35*	20
Batch number: 11061162401B	Sample number(s): 6208382-6208384					BKG: P206985			
28a Moisture Content by 160.3						8.3	9.2	10	20
Batch number: 11054001	Sample number(s): 6208374-6208381,6208383-6208384					UNSPK: P210687			
2378-TCDD	104	105	67-158	0	25				
12378-PeCDD	104	103	70-142	1	25				
123478-HxCDD	106	103	70-164	3	25				
123678-HxCDD	106	103	76-134	3	25				
123789-HxCDD	107	104	64-162	2	25				
1234678-HpCDD	128	85	70-140	22	25				
OCDD	231 (2)	245 (2)	78-144	2	25				
2378-TCDF	111	111	75-158	0	25				
12378-PeCDF	103	103	80-134	0	25				
23478-PeCDF	104	103	68-160	1	25				
123478-HxCDF	103	104	72-134	1	25				
123678-HxCDF	105	103	84-130	2	25				
123789-HxCDF	104	105	78-130	1	25				
234678-HxCDF	104	104	70-156	0	25				
1234678-HpCDF	105	105	82-122	0	25				
1234789-HpCDF	104	103	78-138	1	25				
OCDF	113	118	63-170	3	25				

Surrogate Quality Control

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

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11054001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6208374	74	21	5*	7*	30	62
6208375	80	81	45	62	85	76
6208376	94	104	58	77	101	96
6208377	79	91	70	88	86	73
6208378	81	81	35	49	85	78
6208379	80	84	44	56	86	76
6208380	76	84	57	71	81	68
6208381	73	79	49	66	76	69
6208383	85	87	49	68	82	82
6208384	88	76	32	43	81	83

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233568
Reported: 03/23/11 at 08:40 AM

Surrogate Quality Control

Blank	70	78	68	79	78	75
MS	79	87	63	75	78	76
MSD	83	87	56	72	80	79
OPR	70	76	39	57	74	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6208374	7*	27	17	21*	27	12*
6208375	55	61	48	87	76	68
6208376	71	78	60	108	97	83
6208377	87	55	40	95	85	79
6208378	48	58	39	87	80	60
6208379	47	63	46	89	80	65
6208380	78	55	41	88	80	70
6208381	69	54	41	90	74	66
6208383	70	73	65	93	88	78
6208384	43	73	56	86	86	57
Blank	74	56	44	88	73	72
MS	85	75	69	92	88	77
MSD	80	75	70	93	89	80
OPR	52	52	39	85	73	60
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6208374	14*	41	22*	24	56	36
6208375	74	78	65	53	88	89
6208376	87	91	78	64	107	111
6208377	78	78	66	51	89	106
6208378	66	78	63	50	91	94
6208379	73	80	63	51	92	91
6208380	72	76	65	53	86	96
6208381	71	72	62	50	79	87
6208383	83	84	82	77	84	93
6208384	69	86	76	72	86	90
Blank	73	72	60	48	78	84
MS	78	81	83	81	77	92
MSD	81	84	77	81	79	93
OPR	67	70	60	48	78	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11073001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6208382	93	84	95	98	100	95
Blank	67	58	54	67	58	51
OPR	79	65	60	75	67	57
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233568
Reported: 03/23/11 at 08:40 AM

Surrogate Quality Control

(CRS)

6208382	82	76	44	109	82	95
Blank	81	47	43	90	70	72
OPR	87	52	48	92	79	83
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6208382	97	95	77	52	89	83
Blank	74	73	72	67	57	66
OPR	81	81	79	74	66	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

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

acct# 13013 Cap# 1233568 sample# 6208374-84

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	Perchlorate Confirmation by EPA 6850 (10%)	**Moisture EPA 160.3 (Analyze as per #)	**Asbestos EPA 600/R-93/116 (Analyze as per #)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-024-SA5A-SS-0.0-0.5	2.16.2011	0930	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-024-SA5A-SS-0.0-0.5	2.16.2011	0930	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-025-SA5A-SS-0.0-0.5	2.16.2011	1328	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-025-SA5A-SS-0.0-0.5	2.16.2011	1328	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-026-SA5A-SS-0.0-0.5	2.16.2011	1045	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X														
SL-026-SA5A-SS-0.0-0.5	2.16.2011	1045	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-028-SA5A-SS-0.0-0.5	2.16.2011	1255	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-028-SA5A-SS-0.0-0.5	2.16.2011	1255	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-029-SA5A-SS-0.0-0.5	2.16.2011	1310	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-029-SA5A-SS-0.0-0.5	2.16.2011	1310	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-031-SA5A-SS-0.0-0.5	2.16.2011	1110	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-031-SA5A-SS-0.0-0.5	2.16.2011	1110	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-032-SA5A-SS-0.0-0.5	2.16.2011	0920	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-032-SA5A-SS-0.0-0.5	2.16.2011	0920	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-041-SA5A-SS-0.0-0.5	2.16.2011	930	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-041-SA5A-SS-0.0-0.5	2.16.2011	930	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-332-SA5B-SB-4.0-5.0	2.16.2011	1616	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-332-SA5B-SB-4.5	2.16.2011	1610	SOIL	NONE	5-Encores											X	X	X											
SL-333-SA5B-SB-4.0-5.0	2.16.2011	1230	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-333-SA5B-SB-4.5	2.16.2011	1226	SOIL	NONE	5-Encores											X	X	X											
SL-335-SA5B-SB-2.0-3.0	2.16.2011	1057	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-335-SA5B-SB-2.5	2.16.2011	1050	SOIL	NONE	5-Encores											X	X	X											
TB-021611	2.16.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (Signature)

Date/Time: 02/16/2011 / 17:00

Received for Laboratory by: (Signature) 2/17/11 845

Received by: (Signature)

Date/Time

Airbill No.(s): 8695 1432 3130, ...3140

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

March 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/18/2011
Group Number: 1233760
SDG: DE084
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-021-SA5A-SS-0.0-0.5 Soil	6209557
SL-022-SA5A-SS-0.0-0.5 Soil	6209558
SL-035-SA5A-SS-0.0-0.5 Soil	6209559
SL-036-SA5A-SS-0.0-0.5 Soil	6209560
SL-037-SA5A-SS-0.0-0.5 Soil	6209561
SL-040-SA5A-SS-0.0-0.5 Soil	6209562
SL-050-SA5A-SS-0.0-0.5 Soil	6209563
SL-051-SA5A-SS-0.0-0.5 Soil	6209564
SL-321-SA5B-SB-3.0-4.0 Soil	6209565
SL-322-SA5B-SB-3.0-4.0 Soil	6209566
SL-331-SA5B-SB-3.0-4.0 Soil	6209567
SL-336-SA5B-SB-4.0-5.0 Soil	6209568
SL-337-SA5B-SB-3.0-4.0 Soil	6209569
TB-021711 Water	6209570

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

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-021-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209557
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8401 SDG#: DE084-01

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

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209557
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8401 SDG#: DE084-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	6.7	U	6.7	6.7		1
10401	Dicamba	1918-00-9	1.1	J	0.45	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.3	U	1.3	1.9		1
10401	MCPA	94-74-6	160	U	160	280		1
10401	MCPP (Mecoprop)	93-65-2	410		84	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.69		0.084	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
MCPP was detected in the method blank at a concentration of 350 ug/kg. A reextraction was performed outside the sample hold time. Results from the reextraction were within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-021-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209557
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8401 SDG#: DE084-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.11	J	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.073	U	0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.11	J	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.60	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.60	22.3		1
07914	Boron	7440-42-8	0.991	U	0.991	5.57		1
01650	Calcium	7440-70-2	2,290		6.83	22.3		1
01654	Iron	7439-89-6	19,300		5.24	22.3		1
01656	Lithium	7439-93-2	21.8		0.24	2.2		1
01657	Magnesium	7439-95-4	3,760		2.83	11.1		1
06958	Manganese	7439-96-5	317		0.0869	0.557		1

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Sample Description: **SL-021-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209557
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8401 SDG#: DE084-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	368		0.624	11.1		1
01662	Potassium	7440-09-7	3,140		20.0	55.7		1
01667	Sodium	7440-23-5	80.8	J	41.5	111		1
07968	Strontium	7440-24-6	20.3		0.0690	0.557		1
06969	Tin	7440-31-5	2.65	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,100		0.423	1.11		1
10146	Zirconium	7440-67-7	3.82	J	0.935	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.207	J	0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.48		0.0873	0.437		2
06126	Barium	7440-39-3	123		0.118	0.437		2
06127	Beryllium	7440-41-7	0.703		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.288		0.0445	0.111		2
06131	Chromium	7440-47-3	20.7		0.131	0.437		2
06132	Cobalt	7440-48-4	6.49		0.0218	0.109		2
06133	Copper	7440-50-8	10.6		0.0721	0.437		2
06135	Lead	7439-92-1	10.1		0.0114	0.218		2
06138	Molybdenum	7439-98-7	0.722		0.0546	0.109		2
06139	Nickel	7440-02-0	13.6		0.109	0.437		2
06141	Selenium	7782-49-2	0.149	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0688	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.328		0.0334	0.111		2
06148	Vanadium	7440-62-2	39.0		0.0240	0.109		2
06149	Zinc	7440-66-6	66.1		0.611	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	318		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-021-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209557
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8401 SDG#: DE084-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.2	0.50	0.50		1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 04:38	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011 03:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/01/2011 00:45	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 18:06	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 08:30	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209557
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8401 SDG#: DE084-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 11:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 10:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 11:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/03/2011 21:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 14:24	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243201A	02/24/2011 15:49	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209558
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8402 SDG#: DE084-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209558
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8402 SDG#: DE084-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	3.8	U	3.8	3.8		1
10401	Dicamba	1918-00-9	1.2	J	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	1,500	U	1,500	1,500		1
10401	MCPP (Mecoprop)	93-65-2	100	J	81	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
MCPP was detected in the method blank at a concentration of 350 ug/kg. A reextraction was performed outside the sample hold time. Results from the reextraction were within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209558
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8402 SDG#: DE084-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	1.0		0.072	0.37		1
01363	p,p-DDT	50-29-3	0.81		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	J	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.11	J	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	3.3	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	1.2	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.41	21.5		1
07914	Boron	7440-42-8	0.957	U	0.957	5.38		1
01650	Calcium	7440-70-2	2,640		6.59	21.5		1
01654	Iron	7439-89-6	20,600		5.06	21.5		1
01656	Lithium	7439-93-2	22.9		0.24	2.2		1
01657	Magnesium	7439-95-4	4,050		2.73	10.8		1
06958	Manganese	7439-96-5	327		0.0839	0.538		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209558
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8402 SDG#: DE084-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	428		0.602	10.8		1
01662	Potassium	7440-09-7	3,290		19.4	53.8		1
01667	Sodium	7440-23-5	96.9	J	40.1	108		1
07968	Strontium	7440-24-6	21.4		0.0667	0.538		1
06969	Tin	7440-31-5	2.76	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,120		0.409	1.08		1
10146	Zirconium	7440-67-7	2.71	J	0.903	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0632	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.03		0.0843	0.422		2
06126	Barium	7440-39-3	127		0.114	0.422		2
06127	Beryllium	7440-41-7	0.688		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.107	J	0.0430	0.108		2
06131	Chromium	7440-47-3	21.9		0.126	0.422		2
06132	Cobalt	7440-48-4	6.93		0.0211	0.105		2
06133	Copper	7440-50-8	11.4		0.0696	0.422		2
06135	Lead	7439-92-1	14.0		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.812		0.0527	0.105		2
06139	Nickel	7440-02-0	14.3		0.105	0.422		2
06141	Selenium	7782-49-2	0.127	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.168		0.0126	0.105		2
06145	Thallium	7440-28-0	0.379		0.0323	0.108		2
06148	Vanadium	7440-62-2	41.2		0.0232	0.105		2
06149	Zinc	7440-66-6	74.6		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0113	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	356		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209558
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8402 SDG#: DE084-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.98	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	7.9	0.50	0.50		1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 05:56	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011 04:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/01/2011 01:12	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 18:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 09:40	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209558
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8402 SDG#: DE084-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 11:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 11:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/03/2011 22:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 15:36	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243201A	02/24/2011 16:02	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-035-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209559
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8403 SDG#: DE084-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209559
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8403 SDG#: DE084-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	J	0.35	1.8		1
10138	Anthracene	120-12-7	0.55	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.2		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.5		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.1		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.0		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.4	J	6.4	19		1
10138	Chrysene	218-01-9	5.5		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	4.5		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.78	J	0.71	1.8		1
10138	Naphthalene	91-20-3	0.77	J	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	2.3		0.71	1.8		1
10138	Pyrene	129-00-0	3.9		0.71	1.8		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.7		1
10401	2,4-DB	94-82-6	8.4	U	8.4	8.4		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	1,200	U	1,200	1,200		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-035-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209559
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8403 SDG#: DE084-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.37		1
01363	p,p-DDT	50-29-3	0.071	U	0.071	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		5.23	20.8		1
07914	Boron	7440-42-8	0.926	U	0.926	5.20		1
01650	Calcium	7440-70-2	1,970		6.38	20.8		1
01654	Iron	7439-89-6	16,600		4.90	20.8		1
01656	Lithium	7439-93-2	15.1		0.23	2.1		1
01657	Magnesium	7439-95-4	3,290		2.64	10.4		1
06958	Manganese	7439-96-5	348		0.0812	0.520		1
10145	Phosphorus	7723-14-0	346		0.583	10.4		1
01662	Potassium	7440-09-7	3,590		18.7	52.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209559
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8403 SDG#: DE084-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	91.6	J	38.8	104		1
07968	Strontium	7440-24-6	19.5		0.0645	0.520		1
06969	Tin	7440-31-5	2.46	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,120		0.395	1.04		1
10146	Zirconium	7440-67-7	2.72	J	0.874	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.234		0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.68		0.0841	0.420		2
06126	Barium	7440-39-3	126		0.113	0.420		2
06127	Beryllium	7440-41-7	0.597		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.456		0.0424	0.106		2
06131	Chromium	7440-47-3	21.1		0.126	0.420		2
06132	Cobalt	7440-48-4	7.14		0.0210	0.105		2
06133	Copper	7440-50-8	11.9		0.0693	0.420		2
06135	Lead	7439-92-1	13.1		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.887		0.0525	0.105		2
06139	Nickel	7440-02-0	14.0		0.105	0.420		2
06141	Selenium	7782-49-2	0.131	J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0723	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.360		0.0318	0.106		2
06148	Vanadium	7440-62-2	38.0		0.0231	0.105		2
06149	Zinc	7440-66-6	69.5		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	404		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.70		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-035-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209559
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8403 SDG#: DE084-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011	06:22	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011	05:25	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011	08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/01/2011	01:39	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011	19:16	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011	10:03	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011	18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011	18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011	03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011	11:42	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-035-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209559
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8403 SDG#: DE084-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 11:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 10:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 11:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/03/2011 23:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 16:00	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 16:20	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-036-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209560
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8404 SDG#: DE084-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	43	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209560
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8404 SDG#: DE084-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.50	J	0.36	1.8		1
10138	Anthracene	120-12-7	1.2	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.4		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	4.4		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	7.3		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.6		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.4		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.2	J	6.5	20		1
10138	Chrysene	218-01-9	8.1		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.86	J	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	7.1		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.75	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	2.6		0.72	1.8		1
10138	Pyrene	129-00-0	5.9		0.72	1.8		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	3.8	U	3.8	3.8		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	83	U	83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

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

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209560
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8404 SDG#: DE084-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
compounds were affected: 2,4-DB.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.3	U	2.3	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	1.2		0.072	0.37		1
01363	p,p-DDT	50-29-3	1.9		0.072	0.37		1
01363	Delta BHC	319-86-8	0.068	U	0.068	0.18		1
01363	Dieldrin	60-57-1	0.26	J	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.049	J	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: delta-BHC and technical chlordane.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.2		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.2		2
10225	Aroclor 5460	11126-42-4	8.6		2.2	7.2		2
10225	PCB-1016	12674-11-2	0.72	U	0.72	3.7		2
10225	PCB-1221	11104-28-2	0.72	U	0.72	3.7		2
10225	PCB-1232	11141-16-5	0.72	U	0.72	3.7		2
10225	PCB-1242	53469-21-9	0.72	U	0.72	3.7		2
10225	PCB-1248	12672-29-6	0.72	U	0.72	3.7		2
10225	PCB-1254	11097-69-1	0.72	U	0.72	3.7		2
10225	PCB-1260	11096-82-5	5.4		0.86	3.7		2
10225	PCB-1262	37324-23-5	0.72	U	0.72	3.7		2
10225	PCB-1268	11100-14-4	0.72	U	0.72	3.7		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		5.47	21.7		1
07914	Boron	7440-42-8	0.967	U	0.967	5.43		1
01650	Calcium	7440-70-2	6,160		6.66	21.7		1
01654	Iron	7439-89-6	19,600		5.12	21.7		1
01656	Lithium	7439-93-2	19.0		0.24	2.2		1
01657	Magnesium	7439-95-4	3,880		2.76	10.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209560
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8404 SDG#: DE084-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	334		0.0848	0.543		1
10145	Phosphorus	7723-14-0	436		0.609	10.9		1
01662	Potassium	7440-09-7	3,560		19.6	54.3		1
01667	Sodium	7440-23-5	89.1	J	40.5	109		1
07968	Strontium	7440-24-6	22.8		0.0674	0.543		1
06969	Tin	7440-31-5	2.64	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,080		0.413	1.09		1
10146	Zirconium	7440-67-7	3.54	J	0.913	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.315		0.0652	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.95		0.0869	0.435		2
06126	Barium	7440-39-3	166		0.117	0.435		2
06127	Beryllium	7440-41-7	0.658		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.732		0.0426	0.107		2
06131	Chromium	7440-47-3	28.1		0.130	0.435		2
06132	Cobalt	7440-48-4	8.66		0.0217	0.109		2
06133	Copper	7440-50-8	18.4		0.0717	0.435		2
06135	Lead	7439-92-1	27.3		0.0113	0.217		2
06138	Molybdenum	7439-98-7	1.00		0.0543	0.109		2
06139	Nickel	7440-02-0	18.9		0.109	0.435		2
06141	Selenium	7782-49-2	0.124	J	0.0435	0.435		2
06142	Silver	7440-22-4	0.0837	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.361		0.0320	0.107		2
06148	Vanadium	7440-62-2	54.8		0.0239	0.109		2
06149	Zinc	7440-66-6	105		0.609	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	13.8	J	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	395		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-036-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209560
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8404 SDG#: DE084-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.90	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50		1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 09:39	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011 05:59	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/05/2011 15:41	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 19:30	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 10:26	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209560
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8404 SDG#: DE084-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 11:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 10:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 11:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/03/2011 23:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 16:48	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 16:45	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8405 SDG#: DE084-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	120	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8405 SDG#: DE084-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.56	J	0.36	1.8		1
10138	Anthracene	120-12-7	1.1	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.9		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.2		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	9.1		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	4.5		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	3.1		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.5	J	6.5	19		1
10138	Chrysene	218-01-9	9.7		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.99	J	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	7.9		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.8		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.81	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	3.1		0.72	1.8		1
10138	Pyrene	129-00-0	6.8		0.72	1.8		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	3.4	U	3.4	3.4		1
10401	Dicamba	1918-00-9	1.3		0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	1,100		82	270		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8405 SDG#: DE084-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	6.5		0.36	0.89		5
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.0	U	2.0	3.7		1
01363	p,p-DDD	72-54-8	0.42		0.071	0.37		1
01363	p,p-DDE	72-55-9	4.8		0.36	1.8		5
01363	p,p-DDT	50-29-3	13		0.36	1.8		5
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	2.3		0.071	0.37		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.15	J	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.28	J	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.092	J	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.30	J	0.071	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
	Due to interfering peaks on the chromatogram, the values reported for technical chlordane represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.1		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.1		2
10225	Aroclor 5460	11126-42-4	11		2.2	7.1		2
10225	PCB-1016	12674-11-2	0.71	U	0.71	3.7		2
10225	PCB-1221	11104-28-2	0.71	U	0.71	3.7		2
10225	PCB-1232	11141-16-5	0.71	U	0.71	3.7		2
10225	PCB-1242	53469-21-9	0.71	U	0.71	3.7		2
10225	PCB-1248	12672-29-6	0.71	U	0.71	3.7		2
10225	PCB-1254	11097-69-1	11		0.71	3.7		2
10225	PCB-1260	11096-82-5	7.0		0.84	3.7		2
10225	PCB-1262	37324-23-5	0.71	U	0.71	3.7		2
10225	PCB-1268	11100-14-4	0.71	U	0.71	3.7		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		5.21	20.7		1
07914	Boron	7440-42-8	0.921	U	0.921	5.18		1

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Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8405 SDG#: DE084-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	5,260		6.34	20.7		1
01654	Iron	7439-89-6	19,000		4.87	20.7		1
01656	Lithium	7439-93-2	19.3		0.23	2.1		1
01657	Magnesium	7439-95-4	3,880		2.63	10.4		1
06958	Manganese	7439-96-5	319		0.0807	0.518		1
10145	Phosphorus	7723-14-0	444		0.580	10.4		1
01662	Potassium	7440-09-7	3,640		18.6	51.8		1
01667	Sodium	7440-23-5	81.3	J	38.6	104		1
07968	Strontium	7440-24-6	20.7		0.0642	0.518		1
06969	Tin	7440-31-5	2.54	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,090		0.393	1.04		1
10146	Zirconium	7440-67-7	3.47	J	0.869	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.276		0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.26		0.0853	0.426		2
06126	Barium	7440-39-3	154		0.115	0.426		2
06127	Beryllium	7440-41-7	0.684		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.628		0.0418	0.105		2
06131	Chromium	7440-47-3	29.4		0.128	0.426		2
06132	Cobalt	7440-48-4	8.75		0.0213	0.107		2
06133	Copper	7440-50-8	17.6		0.0703	0.426		2
06135	Lead	7439-92-1	39.0		0.0111	0.213		2
06138	Molybdenum	7439-98-7	1.21		0.0533	0.107		2
06139	Nickel	7440-02-0	18.6		0.107	0.426		2
06141	Selenium	7782-49-2	0.116	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0828	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.346		0.0314	0.105		2
06148	Vanadium	7440-62-2	53.9		0.0234	0.107		2
06149	Zinc	7440-66-6	116		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0117	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8405 SDG#: DE084-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	398	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.84	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 10:04	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011 06:34	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/01/2011 02:35	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110540019A	03/02/2011 15:05	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 19:44	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	03/02/2011 09:49	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 10:49	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110540019A	02/24/2011 09:05	Maria Davenport	1

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Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

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E8405 SDG#: DE084-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 11:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 10:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 11:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/03/2011 23:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 17:12	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 16:58	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8405 SDG#: DE084-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-040-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209562
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8406 SDG#: DE084-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209562
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8406 SDG#: DE084-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.70	J	0.37	1.8		1
10138	Anthracene	120-12-7	1.2	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.0		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.3		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	5.1		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	5.4		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.6	J	6.6	20		1
10138	Chrysene	218-01-9	5.4		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	22		6.6	20		1
10138	Fluoranthene	206-44-0	6.3		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.90	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	3.1		0.73	1.8		1
10138	Pyrene	129-00-0	4.7		0.73	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 9.5 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	1.2	U	1.2	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	110	U	110	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

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

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209562
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8406 SDG#: DE084-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.072	U	0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.098	J	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.35	21.3		1
07914	Boron	7440-42-8	0.946	U	0.946	5.32		1
01650	Calcium	7440-70-2	2,430		6.52	21.3		1
01654	Iron	7439-89-6	19,900		5.01	21.3		1
01656	Lithium	7439-93-2	19.3		0.23	2.1		1
01657	Magnesium	7439-95-4	3,960		2.70	10.6		1
06958	Manganese	7439-96-5	361		0.0829	0.532		1
10145	Phosphorus	7723-14-0	405		0.595	10.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209562
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8406 SDG#: DE084-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,860		19.1	53.2		1
01667	Sodium	7440-23-5	78.8	J	39.7	106		1
07968	Strontium	7440-24-6	20.5		0.0659	0.532		1
06969	Tin	7440-31-5	2.68	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,200		0.404	1.06		1
10146	Zirconium	7440-67-7	3.60	J	0.893	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.163	J	0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.66		0.0859	0.430		2
06126	Barium	7440-39-3	130		0.116	0.430		2
06127	Beryllium	7440-41-7	0.596		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.201		0.0425	0.106		2
06131	Chromium	7440-47-3	22.6		0.129	0.430		2
06132	Cobalt	7440-48-4	6.48		0.0215	0.107		2
06133	Copper	7440-50-8	12.5		0.0709	0.430		2
06135	Lead	7439-92-1	16.1		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.856		0.0537	0.107		2
06139	Nickel	7440-02-0	14.5		0.107	0.430		2
06141	Selenium	7782-49-2	0.111	J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0487	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.269		0.0319	0.106		2
06148	Vanadium	7440-62-2	38.9		0.0236	0.107		2
06149	Zinc	7440-66-6	70.6		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	411		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-040-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209562
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8406 SDG#: DE084-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.74	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.7	0.50	0.50		1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 10:29	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011 07:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/05/2011 16:09	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 19:59	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 11:12	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209562
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8406 SDG#: DE084-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 11:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 11:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/03/2011 23:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 17:36	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 17:10	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-050-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209563
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8407 SDG#: DE084-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209563
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8407 SDG#: DE084-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	380		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209563
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8407 SDG#: DE084-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.20	J	0.073	0.37		1
01363	p,p-DDT	50-29-3	0.24	J	0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Due to interfering peaks on the chromatogram, the values reported technical chlordane represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.4	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	2.3		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.44	21.6		1
07914	Boron	7440-42-8	0.962	U	0.962	5.40		1
01650	Calcium	7440-70-2	3,090		6.63	21.6		1
01654	Iron	7439-89-6	19,800		5.09	21.6		1
01656	Lithium	7439-93-2	22.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,220		2.75	10.8		1
06958	Manganese	7439-96-5	351		0.0843	0.540		1
10145	Phosphorus	7723-14-0	418		0.605	10.8		1
01662	Potassium	7440-09-7	3,440		19.5	54.0		1
01667	Sodium	7440-23-5	81.1	J	40.3	108		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209563
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8407 SDG#: DE084-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	24.1		0.0670	0.540		1
06969	Tin	7440-31-5	2.39	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,130		0.411	1.08		1
10146	Zirconium	7440-67-7	3.09	J	0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.150	J	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.56		0.0856	0.428		2
06126	Barium	7440-39-3	125		0.116	0.428		2
06127	Beryllium	7440-41-7	0.634		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.227		0.0432	0.108		2
06131	Chromium	7440-47-3	22.3		0.128	0.428		2
06132	Cobalt	7440-48-4	6.58		0.0214	0.107		2
06133	Copper	7440-50-8	11.8		0.0706	0.428		2
06135	Lead	7439-92-1	10.6		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.782		0.0535	0.107		2
06139	Nickel	7440-02-0	15.4		0.107	0.428		2
06141	Selenium	7782-49-2	0.133	J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0559	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.262		0.0324	0.108		2
06148	Vanadium	7440-62-2	39.5		0.0235	0.107		2
06149	Zinc	7440-66-6	70.8		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	450		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.55		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209563
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8407 SDG#: DE084-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 10:54	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011 07:43	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/05/2011 16:36	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 20:13	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 11:36	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-050-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209563
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8407 SDG#: DE084-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/15/2011 10:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/04/2011 00:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 18:00	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 17:23	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209564
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8408 SDG#: DE084-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	39	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-051-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209564
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8408 SDG#: DE084-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.85	J	0.37	1.8		1
10138	Anthracene	120-12-7	2.1		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.0		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	5.6		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.6		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	6.0		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	9.8		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.6	20		1
10138	Phenanthrene	85-01-8	5.0		0.74	1.8		1
10138	Pyrene	129-00-0	7.5		0.74	1.8		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	13	U	13	13		1
10401	Dicamba	1918-00-9	2.2		0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	9.5		0.89	1.9		1
10401	MCPA	94-74-6	84	U	84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.63		0.083	0.19		1

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

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-051-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209564
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8408 SDG#: DE084-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
compounds were affected: 2,4-DB.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.18	J	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.15	J	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.31	J	0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.12	J	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.083	J	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.99	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.2	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		5.41	21.5		1
07914	Boron	7440-42-8	0.957	U	0.957	5.38		1
01650	Calcium	7440-70-2	2,600		6.59	21.5		1
01654	Iron	7439-89-6	21,600		5.06	21.5		1
01656	Lithium	7439-93-2	21.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,290		2.73	10.8		1
06958	Manganese	7439-96-5	386		0.0839	0.538		1
10145	Phosphorus	7723-14-0	403		0.602	10.8		1
01662	Potassium	7440-09-7	3,990		19.4	53.8		1
01667	Sodium	7440-23-5	90.0	J	40.1	108		1
07968	Strontium	7440-24-6	22.0		0.0667	0.538		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-051-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209564
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8408 SDG#: DE084-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.56	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,260		0.409	1.08		1
10146	Zirconium	7440-67-7	3.84	J	0.903	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.183	J	0.0645	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.03		0.0860	0.430		2
06126	Barium	7440-39-3	150		0.116	0.430		2
06127	Beryllium	7440-41-7	0.706		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.221		0.0434	0.109		2
06131	Chromium	7440-47-3	27.2		0.129	0.430		2
06132	Cobalt	7440-48-4	8.04		0.0215	0.108		2
06133	Copper	7440-50-8	15.7		0.0710	0.430		2
06135	Lead	7439-92-1	18.9		0.0112	0.215		2
06138	Molybdenum	7439-98-7	1.07		0.0538	0.108		2
06139	Nickel	7440-02-0	18.1		0.108	0.430		2
06141	Selenium	7782-49-2	0.146	J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0712	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.273		0.0326	0.109		2
06148	Vanadium	7440-62-2	46.5		0.0237	0.108		2
06149	Zinc	7440-66-6	95.8		0.602	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0067	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	472		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.59		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-051-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209564
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8408 SDG#: DE084-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 11:19	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/28/2011 00:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110540018A	02/25/2011 01:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 20:27	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 11:59	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110540018A	02/23/2011 23:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209564
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8408 SDG#: DE084-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/04/2011 00:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 18:24	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243201A	02/24/2011 17:29	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.94
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.94
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.94
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.94
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.94
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.94
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.94
06192	Methylene Chloride	75-09-2	1.4	J	0.26	4.3		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.94

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.94
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		25.25
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.9	U	18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.8
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	910	U	910	2,300		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.0	U	8.0	14		1
08283	Ethylene glycol	107-21-1	9.1	U	9.1	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limit attainable. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: **SL-321-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,600		5.56	22.1		1
07914	Boron	7440-42-8	4.92	U	4.92	27.6		5
	Reporting limits for boron were raised due to interference from the sample matrix.							
01650	Calcium	7440-70-2	4,380		6.78	22.1		1
01654	Iron	7439-89-6	39,200		26.0	111		5
01656	Lithium	7439-93-2	27.2		0.24	2.2		1
01657	Magnesium	7439-95-4	7,390		2.81	11.1		1
06958	Manganese	7439-96-5	239		0.0863	0.553		1
10145	Phosphorus	7723-14-0	405		0.619	11.1		1
01662	Potassium	7440-09-7	4,530		19.9	55.3		1
01667	Sodium	7440-23-5	700		41.2	111		1
07968	Strontium	7440-24-6	33.1		0.0686	0.553		1
06969	Tin	7440-31-5	4.03	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,620		0.420	1.11		1
10146	Zirconium	7440-67-7	2.02	J	0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.121	J	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	14.5		0.0893	0.447		2
06126	Barium	7440-39-3	164		0.121	0.447		2
06127	Beryllium	7440-41-7	1.28		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0673	J	0.0451	0.113		2
06131	Chromium	7440-47-3	43.5		0.134	0.447		2
06132	Cobalt	7440-48-4	7.61		0.0223	0.112		2
06133	Copper	7440-50-8	31.8		0.0737	0.447		2
06135	Lead	7439-92-1	19.4		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.788		0.0558	0.112		2
06139	Nickel	7440-02-0	18.1		0.112	0.447		2
06141	Selenium	7782-49-2	0.166	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0549	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.390		0.0338	0.113		2
06148	Vanadium	7440-62-2	74.5		0.0246	0.112		2
06149	Zinc	7440-66-6	180		0.625	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.8		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1

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Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	458		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.25		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-321-SA5B-SB-3.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110491AA	02/18/2011 22:30	Laura M Krieger	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110541AA	02/23/2011 14:46	Jason M Long	25.25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:00	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104923716	02/18/2011 15:00	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 00:48	Timothy J Trees	1

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Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8409 SDG#: DE084-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 11:45	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/28/2011 01:21	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11053A34A	02/22/2011 14:26	Marie D John	24.8
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 14:59	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 16:20	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 18:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 12:22	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 01:17	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 21:03	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 19:03	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/24/2011 21:45	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 11:01	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 11:01	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:07	Choon Y Tian	2

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Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8409 SDG#: DE084-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/04/2011 00:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11062062201A	03/04/2011 00:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 18:48	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 17:47	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11059102201A	03/01/2011 10:40	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11059102201A	02/28/2011 16:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.98
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.98
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.98
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.98
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.98
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.98
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.98
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.98
06192	Ethylbenzene	100-41-4	0.1	J	0.06	4.2		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.98
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.98
06192	Methylene Chloride	75-09-2	0.54	J	0.25	4.2		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.98

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Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.98
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.98
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.98
06192	m+p-Xylene	179601-23-1	0.27	J	0.18	4.2		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		24.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.8	U	17.8	35.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1

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Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	7.5	U	7.5	13		1
08283	Ethylene glycol	107-21-1	7.5	U	7.5	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1

Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limit attainable. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		5.37	21.4		1
07914	Boron	7440-42-8	0.951	U	0.951	5.34		1
01650	Calcium	7440-70-2	1,320		6.55	21.4		1
01654	Iron	7439-89-6	18,100		5.03	21.4		1
01656	Lithium	7439-93-2	14.4		0.24	2.1		1
01657	Magnesium	7439-95-4	2,730		2.71	10.7		1
06958	Manganese	7439-96-5	149		0.0833	0.534		1
10145	Phosphorus	7723-14-0	147		0.598	10.7		1
01662	Potassium	7440-09-7	2,690		19.2	53.4		1
01667	Sodium	7440-23-5	502		39.9	107		1
07968	Strontium	7440-24-6	11.1		0.0662	0.534		1
06969	Tin	7440-31-5	2.97	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,020		0.406	1.07		1
10146	Zirconium	7440-67-7	1.45	J	0.897	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0858	J	0.0628	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.73		0.0838	0.419		2
06126	Barium	7440-39-3	80.7		0.113	0.419		2
06127	Beryllium	7440-41-7	0.512		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0419	U	0.0419	0.105		2
06131	Chromium	7440-47-3	9.28		0.126	0.419		2
06132	Cobalt	7440-48-4	4.37		0.0209	0.105		2
06133	Copper	7440-50-8	2.76		0.0691	0.419		2
06135	Lead	7439-92-1	6.38		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.580		0.0524	0.105		2
06139	Nickel	7440-02-0	4.37		0.105	0.419		2
06141	Selenium	7782-49-2	0.0752	J	0.0419	0.419		2
06142	Silver	7440-22-4	0.0188	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.252		0.0314	0.105		2
06148	Vanadium	7440-62-2	24.6		0.0230	0.105		2
06149	Zinc	7440-66-6	80.6		0.587	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1

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Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	322		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.47		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-322-SA5B-SB-3.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110491AA	02/18/2011 22:53	Laura M Krieger	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110541AA	02/23/2011 15:06	Jason M Long	24.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104923716	02/18/2011 15:07	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 01:04	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 12:10	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/28/2011 01:56	Gregory J Drahovsky	1

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Sample Description: **SL-322-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
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E8410 SDG#: DE084-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11053A34A	02/22/2011 15:03	Marie D John	24.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:07	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 17:02	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 18:38	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 12:45	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 01:42	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 21:18	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 19:20	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/24/2011 22:30	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-322-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8410 SDG#: DE084-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 17:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/04/2011 01:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11062062201A	03/04/2011 01:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 19:12	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243201A	02/24/2011 18:56	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11059102201A	03/01/2011 10:10	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11059102201A	02/28/2011 16:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-331-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	U	7.8	9.3		1.08
06192	Benzene	71-43-2	0.18	J	0.12	4.6		1.08
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.08
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.08
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.08
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.08
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.08
06192	2-Butanone	78-93-3	1.4	U	1.4	9.3		1.08
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.08
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.08
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.6		1.08
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.08
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.08
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.08
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		1.08
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.08
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.08
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.08
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.08
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1.08
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		1.08
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.08
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1.08
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1.08
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.08
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.08
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.6		1.08
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.08
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1.08
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.08
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.08
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.08
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.08
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1.08
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.08
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1.08
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.08
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.6		1.08
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1.08
06192	Ethylbenzene	100-41-4	0.17	J	0.07	4.6		1.08
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.08
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1.08
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.08
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3		1.08
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.08
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.08
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.08
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.3		1.08
06192	Methylene Chloride	75-09-2	0.80	J	0.28	4.6		1.08
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.08

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Sample Description: SL-331-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1.08
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.08
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.6		1.08
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.08
06192	Toluene	108-88-3	0.14	J	0.09	4.6		1.08
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.08
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.08
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.08
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.08
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.08
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.6		1.08
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.08
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.08
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1.08
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.08
06192	m+p-Xylene	179601-23-1	0.56	J	0.20	4.6		1.08
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1.08
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		24.22
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	21.2	J	17.9	35.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-331-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-331-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.5
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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Sample Description: SL-331-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.48	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	7.5	U	7.5	13		1
08283	Ethylene glycol	107-21-1	7.5	U	7.5	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1

Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limit attainable. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-331-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.36	21.3		1
07914	Boron	7440-42-8	0.949	U	0.949	5.33		1
01650	Calcium	7440-70-2	2,040		6.53	21.3		1
01654	Iron	7439-89-6	18,600		5.02	21.3		1
01656	Lithium	7439-93-2	21.0		0.23	2.1		1
01657	Magnesium	7439-95-4	3,420		2.71	10.7		1
06958	Manganese	7439-96-5	316		0.0831	0.533		1
10145	Phosphorus	7723-14-0	369		0.597	10.7		1
01662	Potassium	7440-09-7	3,470		19.2	53.3		1
01667	Sodium	7440-23-5	131		39.8	107		1
07968	Strontium	7440-24-6	20.4		0.0661	0.533		1
06969	Tin	7440-31-5	2.55	J	1.07	10.7		1
06970	Titanium	7440-32-6	986		0.405	1.07		1
10146	Zirconium	7440-67-7	2.48	J	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0646	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.64		0.0861	0.431		2
06126	Barium	7440-39-3	142		0.116	0.431		2
06127	Beryllium	7440-41-7	0.753		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.0887	J	0.0418	0.105		2
06131	Chromium	7440-47-3	20.6		0.129	0.431		2
06132	Cobalt	7440-48-4	6.56		0.0215	0.108		2
06133	Copper	7440-50-8	10.6		0.0710	0.431		2
06135	Lead	7439-92-1	7.12		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.910		0.0538	0.108		2
06139	Nickel	7440-02-0	13.7		0.108	0.431		2
06141	Selenium	7782-49-2	0.139	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0504	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.243		0.0314	0.105		2
06148	Vanadium	7440-62-2	38.1		0.0237	0.108		2
06149	Zinc	7440-66-6	75.6		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.4		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.22	1.1		1

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Sample Description: SL-331-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	382		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.59		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-331-SA5B-SB-3.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110551AA	02/24/2011 22:30	Laura M Krieger	1.08
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110541AA	02/23/2011 15:26	Jason M Long	24.22
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104923716	02/18/2011 15:11	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 01:21	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 12:35	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/28/2011 02:32	Gregory J Drahovsky	1

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Sample Description: **SL-331-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E8411 SDG#: DE084-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11053A34A	02/22/2011 15:39	Marie D John	23.5
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:10	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 19:09	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 18:47	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 13:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 02:06	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 21:48	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 19:38	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 00:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2

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Sample Description: **SL-331-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E8411 SDG#: DE084-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 17:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201B	03/04/2011 01:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11062062201B	03/04/2011 01:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201B	02/28/2011 19:36	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 19:14	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11059102201A	03/01/2011 10:11	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201B	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201B	02/25/2011 14:55	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11059102201A	02/28/2011 16:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-336-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	U	7.8	9.3		1
06192	Benzene	71-43-2	0.12	U	0.12	4.6		1
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1
06192	2-Butanone	78-93-3	1.4	U	1.4	9.3		1
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.6		1
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		1
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		1
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.6		1
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.6		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1
06192	Ethylbenzene	100-41-4	0.1	J	0.07	4.6		1
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.3		1
06192	Methylene Chloride	75-09-2	2.8	J	0.28	4.6		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1

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Sample Description: SL-336-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.6		1
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1
06192	Toluene	108-88-3	0.09	U	0.09	4.6		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.6		1
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1
06192	m+p-Xylene	179601-23-1	0.30	J	0.20	4.6		1
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	7.2	U	7.2	22		31.17
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	24.7	J	19.1	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1

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Sample Description: **SL-336-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.66	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-336-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: SL-336-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	1,400	U	1,400	3,500		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.3		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	6.6		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.71	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.9	U	6.9	14		1
08283	Ethylene glycol	107-21-1	8.1	U	8.1	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limit attainable. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-336-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,900		5.81	23.1		1
07914	Boron	7440-42-8	11.2		1.03	5.77		1
01650	Calcium	7440-70-2	2,210		7.08	23.1		1
01654	Iron	7439-89-6	17,300		5.44	23.1		1
01656	Lithium	7439-93-2	19.6		0.25	2.3		1
01657	Magnesium	7439-95-4	3,220		2.93	11.5		1
06958	Manganese	7439-96-5	292		0.0901	0.577		1
10145	Phosphorus	7723-14-0	384		0.647	11.5		1
01662	Potassium	7440-09-7	3,330		20.8	57.7		1
01667	Sodium	7440-23-5	118		43.1	115		1
07968	Strontium	7440-24-6	18.4		0.0716	0.577		1
06969	Tin	7440-31-5	2.61	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,000		0.439	1.15		1
10146	Zirconium	7440-67-7	2.46	J	0.970	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.94		0.0888	0.444		2
06126	Barium	7440-39-3	148		0.120	0.444		2
06127	Beryllium	7440-41-7	0.716		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.143		0.0453	0.113		2
06131	Chromium	7440-47-3	21.1		0.133	0.444		2
06132	Cobalt	7440-48-4	6.78		0.0222	0.111		2
06133	Copper	7440-50-8	11.7		0.0733	0.444		2
06135	Lead	7439-92-1	8.49		0.0115	0.222		2
06138	Molybdenum	7439-98-7	1.73		0.0555	0.111		2
06139	Nickel	7440-02-0	14.4		0.111	0.444		2
06141	Selenium	7782-49-2	0.166	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0421	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.238		0.0340	0.113		2
06148	Vanadium	7440-62-2	40.5		0.0244	0.111		2
06149	Zinc	7440-66-6	90.8		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.2		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.8		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-336-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	363		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-336-SA5B-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110491AA	02/18/2011 23:37	Laura M Krieger	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110541AA	02/23/2011 15:46	Jason M Long	31.17
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104923716	02/18/2011 15:14	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 01:37	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 13:01	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/28/2011 03:07	Gregory J Drahovsky	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-336-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8413 SDG#: DE084-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11053A34A	02/22/2011 16:16	Marie D John	20.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:13	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 19:52	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 18:57	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 13:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 02:31	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 22:03	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 19:56	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 08:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2

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Sample Description: **SL-336-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8413 SDG#: DE084-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 17:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201B	03/04/2011 02:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11062062201B	03/04/2011 02:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201B	02/28/2011 21:12	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 19:27	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11059102201A	03/01/2011 10:12	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201B	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201B	02/25/2011 14:55	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11059102201A	02/28/2011 16:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.91
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.91
06192	Chloroform	67-66-3	0.14	J	0.12	4.1		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.91
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	10		0.40	8.3		0.91
06192	Methylene Chloride	75-09-2	9.4		0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.91

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Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.16
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	25.3	J	18.8	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.41	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.81
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	1,400	U	1,400	3,400		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.94	J	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	4.3		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.58	J	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.8	U	6.8	14		1
08283	Ethylene glycol	107-21-1	8.0	U	8.0	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limit attainable. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		5.63	22.4		1
07914	Boron	7440-42-8	0.996	U	0.996	5.60		1
01650	Calcium	7440-70-2	1,950		6.86	22.4		1
01654	Iron	7439-89-6	21,800		5.27	22.4		1
01656	Lithium	7439-93-2	22.6		0.25	2.2		1
01657	Magnesium	7439-95-4	4,000		2.84	11.2		1
06958	Manganese	7439-96-5	250		0.0873	0.560		1
10145	Phosphorus	7723-14-0	473		0.627	11.2		1
01662	Potassium	7440-09-7	4,490		20.1	56.0		1
01667	Sodium	7440-23-5	179		41.7	112		1
07968	Strontium	7440-24-6	13.6		0.0694	0.560		1
06969	Tin	7440-31-5	2.90	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,100		0.425	1.12		1
10146	Zirconium	7440-67-7	1.25	J	0.940	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.145	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.41		0.0887	0.443		2
06126	Barium	7440-39-3	140		0.120	0.443		2
06127	Beryllium	7440-41-7	0.667		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.102	J	0.0452	0.113		2
06131	Chromium	7440-47-3	19.8		0.133	0.443		2
06132	Cobalt	7440-48-4	6.21		0.0222	0.111		2
06133	Copper	7440-50-8	10.1		0.0731	0.443		2
06135	Lead	7439-92-1	6.70		0.0115	0.222		2
06138	Molybdenum	7439-98-7	1.58		0.0554	0.111		2
06139	Nickel	7440-02-0	12.9		0.111	0.443		2
06141	Selenium	7782-49-2	0.138	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0585	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.216		0.0339	0.113		2
06148	Vanadium	7440-62-2	37.0		0.0244	0.111		2
06149	Zinc	7440-66-6	79.9		0.621	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	382		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.11		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-337-SA5B-SB-3.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110491AA	02/19/2011 00:00	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110541AA	02/23/2011 16:06	Jason M Long	20.16
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:17	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104923716	02/18/2011 15:18	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 01:54	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 13:26	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/28/2011 03:43	Gregory J Drahovsky	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-337-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8414 SDG#: DE084-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11053A34A	02/22/2011 16:52	Marie D John	19.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:17	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 20:34	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 19:06	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 13:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 02:56	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 22:18	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 20:13	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 00:45	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2

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Sample Description: **SL-337-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8414 SDG#: DE084-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 17:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201B	03/04/2011 02:34	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11062062201B	03/04/2011 02:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201B	02/28/2011 21:37	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243201A	02/24/2011 19:33	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11059102201A	03/01/2011 10:13	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201B	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201B	02/25/2011 14:55	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11059102201A	02/28/2011 16:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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

Analysis Report

Sample Description: TB-021711 Water
SSFL Area IV Collocated Soil Sampling
TB-021711

LLI Sample # WW 6209570
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 08:00

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8415 SDG#: DE084-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-021711 Water**
SSFL Area IV Collocated Soil Sampling
TB-021711

LLI Sample # WW 6209570
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 08:00

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

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

E8415 SDG#: DE084-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110542AA	02/23/2011	12:37	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110521AA	02/21/2011	21:46	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110521AA	02/21/2011	21:46	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110542AA	02/23/2011	12:37	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11055A20A	02/25/2011	12:42	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11055A20A	02/25/2011	12:42	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110491AA	Sample number(s): 6209565-6209566,6209568-6209569									
Acetone	6.7	U	6.7	8.0	ug/kg	117	114	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	102	101	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	86	85	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	111	108	79-124	3	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	99	96	78-120	3	30
Bromoform	0.40	U	0.40	4.0	ug/kg	100	95	70-120	5	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	82	83	32-162	0	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	103	97	46-153	6	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	93	95	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	87	90	75-120	3	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	85	84	75-120	1	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	109	108	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	99	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	75	78	37-154	5	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	111	108	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	106	106	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	74	77	54-132	4	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	89	91	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90	92	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	72	70	22-131	2	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	98	92	58-120	5	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	104	99	77-120	4	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	101	96	80-120	6	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	104	100	80-120	4	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	95	95	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	89	90	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	93	91	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	66	67	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100	100	80-120	0	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	107	105	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101	101	73-123	0	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103	102	79-120	1	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	95	94	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	96	93	80-120	3	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101	102	72-123	0	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98	98	77-120	0	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	85	83	80-120	3	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87	85	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	94	95	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	99	99	61-126	0	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	92	94	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	87	88	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	74	71	45-155	5	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	94	95	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	91	93	75-120	3	30

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	94	93	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	72	67	61-134	7	30
Methylene Chloride	0.30	J	0.24	4.0	ug/kg	98	97	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	93	95	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	99	98	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	106	105	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	94	90	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	105	77-120	4	30
Toluene	0.08	U	0.08	4.0	ug/kg	98	100	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	87	87	64-120	0	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	79	79	68-120	1	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	103	104	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	103	99	80-120	4	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	99	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	96	96	58-133	0	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101	95	71-123	6	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	92	93	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	92	92	78-120	0	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	76	77	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99	100	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	90	92	80-120	3	30
Batch number: B110551AA	Sample number(s): 6209567									
Acetone	8.7		6.7	8.0	ug/kg	116	112	32-209	4	30
Benzene	0.10	U	0.10	4.0	ug/kg	106	103	80-120	3	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	104	106	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	107	102	79-124	6	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	100	96	78-120	4	30
Bromoform	0.40	U	0.40	4.0	ug/kg	100	95	70-120	5	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	70	73	32-162	4	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	124	109	46-153	13	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	98	104	72-120	6	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100	106	75-120	6	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99	103	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	99	98	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	99	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	73	74	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	108	99	43-146	9	30
Chloroform	0.12	U	0.12	4.0	ug/kg	105	102	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	78	77	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101	104	78-120	3	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100	103	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	80	96	22-131	18	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	109	108	58-120	1	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	98	93	77-120	6	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	107	104	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	107	103	80-120	4	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100	104	79-120	4	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99	102	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	98	102	79-120	4	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	51	60	20-120	17	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	107	103	80-120	4	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	107	103	71-129	3	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	115	114	73-123	1	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	107	103	80-120	4	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	109	105	79-120	4	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	101	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	105	102	80-120	3	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104	100	72-123	4	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106	103	77-120	3	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	97	94	80-120	4	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	98	94	77-120	5	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	102	101	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	99	111	61-126	12	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	98	124*	78-120	24	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	84	103	57-120	21	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	127	114	45-155	11	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100	101	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	100	107	75-120	7	30
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	114	101	74-121	12	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	126	114	61-134	10	30
Methylene Chloride	1.1	J	0.24	4.0	ug/kg	109	110	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	104	108	77-120	3	30
Styrene	0.10	U	0.10	4.0	ug/kg	100	98	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	100	98	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	108	110	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99	99	77-120	0	30
Toluene	0.1	J	0.08	4.0	ug/kg	103	100	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	101	106	64-120	5	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	98	104	68-120	5	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	108	104	71-125	4	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	104	102	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	100	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87	94	58-133	8	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	112	112	71-123	0	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	103	107	79-120	3	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	102	106	78-120	4	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	84	84	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99	99	80-120	0	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	100	99	80-120	1	30
Batch number: E110521AA	Sample number(s): 6209570									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	100	98	80-123	2	30
Batch number: E110541AA	Sample number(s): 6209565-6209569									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	102	70-130	3	30
Batch number: Y110542AA	Sample number(s): 6209570									
Acetone	6	U	6.	20	ug/l	117	122	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	97	96	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	99	96	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	96	94	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	89	87	80-120	2	30
Bromoform	1	U	1.	5	ug/l	74	73	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	86	85	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	114	115	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	95	93	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	96	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	92	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	90	88	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	92	80-120	3	30
Chloroethane	1	U	1.	5	ug/l	80	80	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	113	108	56-129	4	30
Chloroform	0.8	U	0.8	5	ug/l	98	96	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	87	85	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	98	96	80-120	2	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	67	67	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	79	79	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	83	83	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	93	80-120	5	30
Dibromomethane	1	U	1.	5	ug/l	96	95	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	90	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	93	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	92	80-120	4	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	67	66	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	97	79-120	1	30
1,2-Dichloroethane	1	U	1.	5	ug/l	102	100	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	93	90	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	96	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	95	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	96	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	92	92	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	96	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	88	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	88	79-120	4	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	94	79-120	1	30
Freon 113	2	U	2.	10	ug/l	81	78	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	100	99	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	84	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	103	103	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	91	92	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	96	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	99	98	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	96	94	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	100	98	80-120	2	30
Styrene	1	U	1.	5	ug/l	89	88	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	89	88	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	95	94	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	90	91	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	96	93	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	85	84	80-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	89	87	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	82	81	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	94	93	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	94	93	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	85	83	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	100	97	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	96	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	97	96	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	83	81	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	92	91	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30

Batch number: 11052SLK026 Sample number(s): 6209557-6209569

Acenaphthene	0.67	U	0.67	1.7	ug/kg	99		63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	100		60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	105		55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	115		74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	114		58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	118		63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	121		44-138

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	118		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	118		65-131		
Di-n-butylphthalate	7.7	J	6.0	18	ug/kg	120		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	111		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	118		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	119		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	9.5	J	6.0	18	ug/kg	122		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	115		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	118		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	96		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	92		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	113		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	124		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	100		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	105		56-121		
Batch number: 11053SLA026	Sample number(s): 6209557-6209569									
Aniline	170	U	170.	500	ug/kg	64		34-94		
Benzidine	1,200	U	1,200.	3,300	ug/kg	48		15-121		
Benzoic acid	170	U	170.	500	ug/kg	115*		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	102		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		79-117		
Di-n-butylphthalate	17	U	17.	170	ug/kg	90		79-112		
Carbazole	17	U	17.	170	ug/kg	103		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	108		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	21		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	100		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	92		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	94		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	92		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	53		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	109		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	107		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	112		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	86		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	83		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	104		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	110		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	103		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	98		70-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	92		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	91		68-105		
Isophorone	17	U	17.	170	ug/kg	103		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	99		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	106		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	87		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	102		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	105		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	102		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	98		51-117		
Phenol	17	U	17.	170	ug/kg	94		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	100		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	106		78-111		
Batch number: 11060SLB026	Sample number(s): 6209565-6209569									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93		70-130		
Batch number: 11053A34A	Sample number(s): 6209565-6209569									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68	67	67-119	2	30
Batch number: 11055A20A	Sample number(s): 6209570									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	86	79	75-135	9	30
Batch number: 110530007A	Sample number(s): 6209565-6209569									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	120		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	119	119	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	119	118	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	118		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
HMX	100 U		100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	116		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	105		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	110		80-120		
PETN	800 U		800.	2,400	ug/kg	120		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
Batch number: 110530006A	Sample number(s): 6209565-6209569									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	97		80-126		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110540018A	Sample number(s): 6209564									
2,4-D	1.2	U	1.2	3.6	ug/kg	87		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	61		24-89		
2,4-DB	0.75	J	0.62	1.7	ug/kg	85		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	82		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	99		60-141		
MCPA	76	U	76.	250	ug/kg	81		34-113		
MCPP (Mecoprop)	210 J		75.	250	ug/kg	80		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	86		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	81		48-138		
Batch number: 110570005A	Sample number(s): 6209557-6209563									
2,4-D	1.2	U	1.2	3.6	ug/kg	84		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	53		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	84		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	87		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	139		62-170		
MCPA	76	U	76.	250	ug/kg	77		60-130		
MCPP (Mecoprop)	350		75.	250	ug/kg	69		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	87		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	84		68-114		
Batch number: 110540019A	Sample number(s): 6209561									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		85-115		
Batch number: 110530014A	Sample number(s): 6209557-6209564									
Aldrin	0.066	U	0.066	0.17	ug/kg	109		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	82		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	97		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	137		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	105		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	88		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	95		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	73		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	115		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	118		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	95		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	56		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	112		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	88		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	121		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	99		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110540017A	Sample number(s): 6209557-6209569									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	81	71	36-106	14	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	102		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110530029A	Sample number(s): 6209565-6209569									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	91		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	80		66-113		
Batch number: 110490013A	Sample number(s): 6209565-6209569									
Ethanol	100	U	100.	500	ug/kg	92		75-112		
Isopropanol	100	U	100.	500	ug/kg	97		75-125		
Methanol	100	U	100.	500	ug/kg	91		75-134		
Batch number: 110520024A	Sample number(s): 6209565-6209569									
Diethylene glycol	6.0	U	6.0	13	mg/kg	95		75-125		
Ethylene glycol	9.0	U	9.0	13	mg/kg	91		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	101		75-125		
Batch number: 110530028A	Sample number(s): 6209565-6209569									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	81		75-125		
Batch number: 110521026002A	Sample number(s): 6209557-6209569									
Antimony	0.141	J	0.0600	0.200	mg/kg	102		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	108		80-120		
Beryllium	0.0417	J	0.0160	0.100	mg/kg	106		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	114		80-120		
Cobalt	0.0570	J	0.0200	0.100	mg/kg	103		82-118		
Copper	0.135	J	0.0660	0.400	mg/kg	109		80-120		
Lead	0.0459	J	0.0104	0.200	mg/kg	109		80-120		
Nickel	0.138	J	0.100	0.400	mg/kg	113		80-120		
Silver	0.0256	J	0.0120	0.100	mg/kg	115		66-134		
Vanadium	0.0749	J	0.0220	0.100	mg/kg	104		90-110		
Zinc	0.568	J	0.560	3.00	mg/kg	108		78-122		
Batch number: 110521026002B	Sample number(s): 6209557-6209569									
Selenium	0.0571	J	0.0400	0.400	mg/kg	99		79-122		
Batch number: 110521026002C	Sample number(s): 6209557-6209569									
Molybdenum	0.0824	J	0.0500	0.100	mg/kg	114		78-122		
Batch number: 110521026002D	Sample number(s): 6209557-6209569									
Barium	0.215	J	0.108	0.400	mg/kg	110		79-121		
Batch number: 110525708002	Sample number(s): 6209557-6209569									
Aluminum	5.03	U	5.03	20.0	mg/kg	87		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	91		78-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Calcium	6.13	U	6.13	20.0	mg/kg	93		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	103		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	93		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	99		81-119		
Phosphorus	1.25	J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	93		78-110		
Sodium	37.3	U	37.3	100	mg/kg	94		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	101		79-121		
Tin	1.43	J	1.00	10.0	mg/kg	92		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	97		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		
Batch number: 110525711002	Sample number(s): 6209557-6209569									
Mercury	0.0028	U	0.0028	0.0980	mg/kg	102		88-123		
Batch number: 110631026002A	Sample number(s): 6209557-6209569									
Cadmium	0.0400	U	0.0400	0.100	mg/kg	113		82-118		
Thallium	0.0300	U	0.0300	0.100	mg/kg	112		81-119		
Batch number: 11054243201A	Sample number(s): 6209557-6209569									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11056199201A	Sample number(s): 6209557-6209566									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11056199201B	Sample number(s): 6209567-6209569									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11059102201A	Sample number(s): 6209565-6209569									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	107		80-120		
Batch number: 11062062201A	Sample number(s): 6209557-6209566									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	109		90-110		
Batch number: 11062062201B	Sample number(s): 6209567-6209569									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	109		90-110		
Batch number: 11052039401A	Sample number(s): 6209557-6209565									
22a pH by 9045C						100		95-105		
Batch number: 11052039401B	Sample number(s): 6209566-6209569									
22a pH by 9045C						100		95-105		
Batch number: 11052182101A	Sample number(s): 6209557-6209565									
32a OR Potential						99		98-102		
Batch number: 11052182101B	Sample number(s): 6209566-6209569									
32a OR Potential						99		98-102		
Batch number: 11060162401A	Sample number(s): 6209557-6209564									
28a Moisture Content by 160.3						99		80-120		
Batch number: 11061162401B	Sample number(s): 6209565-6209569									
28a Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11052SLK026	Sample number(s): 6209557-6209569 UNSPK: 6209557								
Acenaphthene	94	90	63-105	5	30				
Acenaphthylene	103	99	67-114	4	30				
Anthracene	106	103	60-122	2	30				
Benzo(a)anthracene	117	113	59-128	4	30				
Benzo(a)pyrene	108	106	45-138	2	30				
Benzo(b)fluoranthene	103	101	43-155	2	30				
Benzo(g,h,i)perylene	86	84	33-141	3	30				
Benzo(k)fluoranthene	102	99	42-144	3	30				
Butylbenzylphthalate	122	105	57-173	15	30				
Di-n-butylphthalate	123	117	65-148	5	30				
Chrysene	109	104	48-134	4	30				
Dibenz(a,h)anthracene	83	77	22-133	8	30				
Diethylphthalate	118	111	70-136	6	30				
Dimethylphthalate	108	103	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	102	101	39-167	1	30				
Fluoranthene	117	112	26-166	4	30				
Fluorene	97	95	66-122	3	30				
Indeno(1,2,3-cd)pyrene	85	80	21-143	5	30				
1-Methylnaphthalene	96	92	72-123	4	30				
2-Methylnaphthalene	85	82	64-103	4	30				
Naphthalene	93	90	61-102	4	30				
N-Nitrosodimethylamine	111	107	48-113	4	30				
Di-n-octylphthalate	137	135	40-192	2	30				
Phenanthrene	97	95	12-165	2	30				
Pyrene	98	94	15-153	4	30				
Batch number: 11053SLA026	Sample number(s): 6209557-6209569 UNSPK: 6209557								
Aniline	68	70	35-95	1	30				
Benzidine	14*	15*	35-141	3	30				
Benzoic acid	94	89	10-173	6	30				
Benzyl alcohol	102	104	67-115	0	30				
4-Bromophenyl-phenylether	101	101	67-129	1	30				
Di-n-butylphthalate	100	99	67-123	1	30				
Carbazole	102	106	64-120	2	30				
4-Chloro-3-methylphenol	106	105	76-110	3	30				
4-Chloroaniline	63	58	23-95	9	30				
bis(2-Chloroethoxy)methane	96	97	75-104	0	30				
bis(2-Chloroethyl)ether	94	84	60-116	13	30				
bis(2-Chloroisopropyl)ether	1*	93	55-142	195*	30				
2-Chloronaphthalene	79	96	50-141	19	30				
2-Chlorophenol	97	97	73-121	2	30				
4-Chlorophenyl-phenylether	107	100	80-109	8	30				
Dibenzofuran	105	99	71-112	7	30				
1,2-Dichlorobenzene	91	79	66-108	15	30				
1,3-Dichlorobenzene	81	87	63-109	7	30				
1,4-Dichlorobenzene	91	89	70-100	3	30				
3,3'-Dichlorobenzidine	73	77	16-119	4	30				
2,4-Dichlorophenol	106	99	78-117	9	30				

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Quality Control Summary

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Reported: 03/21/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dimethylphenol	104	102	78-110	4	30				
3,5-Dimethylphenol	109	109	70-130	1	30				
4,6-Dinitro-2-methylphenol	82	81	24-116	2	30				
2,4-Dinitrophenol	67	65	20-143	5	30				
2,4-Dinitrotoluene	108	95	73-113	15	30				
2,6-Dinitrotoluene	109	101	69-123	9	30				
1,2-Diphenylhydrazine	103	104	71-129	0	30				
bis(2-Ethylhexyl)phthalate	110	108	63-122	3	30				
Hexachlorobenzene	101	107	77-114	4	30				
Hexachlorobutadiene	98	95	62-120	4	30				
Hexachlorocyclopentadiene	91	82	10-153	12	30				
Hexachloroethane	93	77	57-109	20	30				
Isophorone	99	99	73-102	2	30				
2-Methylphenol	98	84	75-111	16	30				
4-Methylphenol	95	93	71-111	3	30				
2-Nitroaniline	115	102	67-125	13	30				
3-Nitroaniline	107	100	59-122	9	30				
4-Nitroaniline	87	83	52-112	6	30				
Nitrobenzene	102	100	72-106	3	30				
2-Nitrophenol	105	99	74-115	7	30				
4-Nitrophenol	100	96	54-113	5	30				
N-Nitroso-di-n-propylamine	94	91	60-116	4	30				
N-Nitrosodiphenylamine	102	103	86-145	1	30				
Pentachlorophenol	101	107	28-127	4	30				
Phenol	93	93	58-126	1	30				
1,2,4-Trichlorobenzene	99	99	72-115	1	30				
2,4,5-Trichlorophenol	111*	104	78-109	8	30				
2,4,6-Trichlorophenol	115	105	77-115	10	30				
Batch number: 11060SLB026	Sample number(s): 6209565-6209569 UNSPK: P206985								
N-Nitrosodimethylamine	82	83	70-130	1	30				
Batch number: 110530007A	Sample number(s): 6209565-6209569 UNSPK: P206985								
4-Amino-2,6-Dinitrotoluene	98	96	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	96	95	80-137	1	50				
1,3-Dinitrobenzene	99	97	38-166	2	50				
2,4-Dinitrotoluene	95	93	80-131	1	50				
2,6-Dinitrotoluene	98	94	80-127	4	50				
HMX	81	82	63-128	1	50				
Nitrobenzene	97	98	80-125	1	50				
Nitroglycerin	91	89	80-120	2	50				
2-Nitrotoluene	97	95	80-122	2	50				
3-Nitrotoluene	95	92	72-119	3	50				
4-Nitrotoluene	94	91	80-125	4	50				
PETN	98	97	80-121	1	50				
RDX	79	79	75-129	0	50				
Tetryl	80	76	55-174	5	50				
1,3,5-Trinitrobenzene	93	92	82-126	1	50				
2,4,6-Trinitrotoluene	99	97	82-130	2	50				
Batch number: 110530006A	Sample number(s): 6209565-6209569 UNSPK: P208350								
17a Formaldehyde by 8315A	102	104	80-120	1	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110540018A	Sample number(s): 6209564 UNSPK: P208342								
2,4-D	79	100	28-161	23	35				
Dalapon	253*	67	12-86	116*	50				
2,4-DB	72	241*	20-170	108*	50				
Dicamba	-2*	-222*	33-120	126*	50				
Dinoseb	9	10	1-44	16	35				
2,4-DP (Dichlorprop)	105	114	55-141	8	50				
MCPA	235*	89	31-184	90*	50				
MCPP (Mecoprop)	104	155	16-174	40	50				
2,4,5-T	35	27	25-132	27	35				
2,4,5-TP	7*	23	10-183	20	35				
Batch number: 110570005A	Sample number(s): 6209557-6209563 UNSPK: P208345								
2,4-D	56	63	17-180	11	35				
Dalapon	0*	39	10-125	200*	50				
2,4-DB	128	119	10-201	7	50				
Dicamba	205*	193*	10-190	6	50				
Dinoseb	19	22	10-46	16	35				
2,4-DP (Dichlorprop)	88	139	33-178	45	50				
MCPA	183	184	10-213	1	50				
MCPP (Mecoprop)	82	86	10-184	4	50				
2,4,5-T	57	40	10-156	35	35				
2,4,5-TP	93	87	24-141	7	35				
Batch number: 110540019A	Sample number(s): 6209561 UNSPK: p210672								
6a Perchlorate EPA 6850	103	109	80-120	6	20				
Batch number: 110530014A	Sample number(s): 6209557-6209564 UNSPK: 6209558								
Aldrin	112	103	16-126	8	50				
Alpha BHC	79	73	10-129	8	50				
Beta BHC	41	44	14-147	7	50				
Gamma BHC - Lindane	85	76	10-140	11	50				
p,p-DDD	96	82	16-163	15	50				
p,p-DDE	80	55	18-161	12	50				
p,p-DDT	69	23	10-176	29	50				
Delta BHC	84	75	23-140	12	50				
Dieldrin	74	65	19-154	13	50				
Endosulfan I	67	64	16-137	5	50				
Endosulfan II	94	82	28-154	14	50				
Endosulfan Sulfate	94	82	21-160	14	50				
Endrin	82	70	11-149	16	50				
Endrin Aldehyde	73	66	10-148	10	35				
Endrin Ketone	73	65	22-165	9	50				
Heptachlor	88	79	13-126	11	50				
Heptachlor Epoxide	106	97	13-157	9	50				
Methoxychlor	49	46	32-147	5	50				
Batch number: 110540017A	Sample number(s): 6209557-6209569 UNSPK: 6209557								
PCB-1016	61	84	29-146	32	50				
PCB-1260	74	98	39-149	26	50				
Batch number: 110530029A	Sample number(s): 6209565-6209569 UNSPK: P208350								
EFH (C12-C14)	0*	0*	49-123	0	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	2133 (2)	5256 (2)	49-123	14	20				
EFH (C30 - C40)	16238 (2)	25509 (2)	49-123	16	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 110490013A	Sample number(s): 6209565-6209569 UNSPK: P208351								
Ethanol	84	86	24-143	2	20				
Isopropanol	87	88	75-125	2	20				
Methanol	92	97	45-136	5	20				
Batch number: 110520024A	Sample number(s): 6209565-6209569 UNSPK: P208350								
Diethylene glycol	52*	73	59-109	33*	20				
Ethylene glycol	65	80	63-107	21*	20				
Propylene glycol	77	89	63-107	15	20				
Batch number: 110530028A	Sample number(s): 6209565-6209569 UNSPK: P206985								
m-Terphenyl	80	80	75-125	1	20				
o-Terphenyl	96	95	75-125	2	20				
p-Terphenyl	75	73*	75-125	2	20				
Batch number: 110521026002A	Sample number(s): 6209557-6209569 UNSPK: 6209557 BKG: 6209557								
Antimony	48*	73*	75-125	34*	20	0.186 J	0.0928 J	67* (1)	20
Arsenic	126*	205*	75-125	19	20	4.92	4.16	17	20
Beryllium	117	133*	75-125	8	20	0.631	0.571	10	20
Chromium	143*	189*	75-125	13	20	18.6	16.7	11	20
Cobalt	119	136*	75-125	13	20	5.83	5.12	13	20
Copper	131*	155*	75-125	11	20	9.50	8.58	10	20
Lead	201*	229*	75-125	6	20	9.05	7.97	13	20
Nickel	139*	180*	75-125	15	20	12.2	11.0	10	20
Silver	137*	156*	75-125	14	20	0.0618 J	0.0394 J	44* (1)	20
Vanadium	155*	230*	75-125	14	20	35.1	30.7	13	20
Zinc	182 (2)	285 (2)	75-125	12	20	59.3	52.6	12	20
Batch number: 110521026002B	Sample number(s): 6209557-6209569 UNSPK: 6209557 BKG: 6209557								
Selenium	93	92	75-125	1	20	0.134 J	0.109 J	21* (1)	20
Batch number: 110521026002C	Sample number(s): 6209557-6209569 UNSPK: 6209557 BKG: 6209557								
Molybdenum	137*	163*	75-125	18	20	0.648	0.574	12	20
Batch number: 110521026002D	Sample number(s): 6209557-6209569 UNSPK: 6209557 BKG: 6209557								
Barium	237 (2)	420 (2)	75-125	13	20	110	99.4	10	20
Batch number: 110525708002	Sample number(s): 6209557-6209569 UNSPK: 6209557 BKG: 6209557								
Aluminum	2302 (2)	2326 (2)	75-125	1	20	13,400	14,000	5	20
Boron	101	101	84-115	1	20	0.890 U	0.873 U	0 (1)	20
Calcium	203 (2)	233 (2)	75-125	4	20	2,050	2,320	12	20
Iron	1348 (2)	2145 (2)	75-125	4	20	17,300	18,100	4	20
Lithium	105	104	82-114	0	20	19.6	20.7	6	20
Magnesium	274 (2)	278 (2)	75-125	0	20	3,370	3,550	5	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Manganese	110 (2)	139 (2)	75-125	4	20	285	289	1	20
Phosphorus	112	125	75-125	3	20	330	357	8	20
Potassium	141*	150*	75-125	2	20	2,820	2,950	5	20
Sodium	102	101	75-125	0	20	72.6 J	72.8 J	0 (1)	20
Strontium	102	102	75-115	1	20	18.3	18.9	4	20
Tin	91	90	80-110	1	20	2.38 J	2.40 J	1 (1)	20
Titanium	312 (2)	339 (2)	75-125	2	20	992	996	0	20
Zirconium	95	94	75-125	0	20	3.43 J	3.31 J	4 (1)	20
Batch number: 110525711002	Sample number(s): 6209557-6209569 UNSPK: 6209557 BKG: 6209557								
Mercury	101	95	65-135	6	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 110631026002A	Sample number(s): 6209557-6209569 UNSPK: P214502 BKG: P214502								
Cadmium	156*	139*	75-125	11	20	0.0576 J	0.0704 J	20 (1)	20
Thallium	179*	149*	75-125	13	20	0.237	0.239	1 (1)	20
Batch number: 11054243201A	Sample number(s): 6209557-6209569 UNSPK: 6209565 BKG: 6209565								
3a Cr VI by EPA 7199	88		75-125			0.20 J	0.37 J	59* (1)	20
Batch number: 11056199201A	Sample number(s): 6209557-6209566 UNSPK: 6209557 BKG: 6209557								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11056199201B	Sample number(s): 6209567-6209569 UNSPK: 6209567 BKG: 6209567								
7a Perchlorate EPA 314.0	109		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11059102201A	Sample number(s): 6209565-6209569 UNSPK: 6209565 BKG: 6209565								
21a Cyanide by 9012B	106		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11062062201A	Sample number(s): 6209557-6209566 UNSPK: 6209557 BKG: 6209557								
11a Anions by 300.0 - Fluoride	50*		80-120			1.3	0.89 J	40* (1)	20
11a Anions by 300.0 - Nitrate	108		80-120			1.4 J	0.88 J	44* (1)	20
Batch number: 11062062201B	Sample number(s): 6209567-6209569 UNSPK: 6209567 BKG: 6209567								
11a Anions by 300.0 - Fluoride	80		80-120			1.2	1.3	10 (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			4.1	3.8	7 (1)	20
Batch number: 11052039401A	Sample number(s): 6209557-6209565 BKG: 6209557								
22a pH by 9045C						6.48	6.52	1	1
Batch number: 11052039401B	Sample number(s): 6209566-6209569 BKG: P210672								
22a pH by 9045C						6.93	6.94	0	1
Batch number: 11052182101A	Sample number(s): 6209557-6209565 BKG: 6209557								
32a OR Potential						318	322	1	6
Batch number: 11052182101B	Sample number(s): 6209566-6209569 BKG: P210672								
32a OR Potential						503	504	0	6
Batch number: 11060162401A	Sample number(s): 6209557-6209564 BKG: P208348								
28a Moisture Content by 160.3						9.7	9.6	0	20
Batch number: 11061162401B	Sample number(s): 6209565-6209569 BKG: P206985								
28a Moisture Content by 160.3						8.3	9.2	10	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

Surrogate Quality Control

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

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110491AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6209565	117	117	96	90
6209566	113	109	96	90
6209568	114	105	97	82
6209569	116	110	95	87
Blank	113	111*	95	91
LCS	107	106	104	106
LCSD	104	103	105	104
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110551AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6209567	102	106	97	97
Blank	99	102	98	97
LCS	103	106	101	100
LCSD	102	104	101	98
Limits:	71-114	70-109	70-123	70-111

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110521AA

	Toluene-d8
6209570	95
Blank	95
LCS	95
LCSD	95
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110541AA

	Toluene-d8
6209565	97
6209566	98
6209567	98
6209568	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Surrogate Quality Control

6209569	98
Blank	98
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110542AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6209570	98	99	101	99
Blank	100	98	101	99
LCS	100	99	101	99
LCSD	101	103	101	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11052SLK026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6209557	116	84	96
6209558	113	82	95
6209559	127	84	95
6209560	128	85	95
6209561	132*	86	94
6209562	122	83	89
6209563	118	83	90
6209564	122	89	95
6209565	104	81	94
6209566	106	83	90
6209567	106	87	95
6209568	103	84	93
6209569	105	87	94
Blank	123	94	108
LCS	129	85	100
MS	135*	86	94
MSD	129	83	90
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11053SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6209557	93	96	95	98	97	98
6209558	89	90	103	89	90	96
6209559	94	90	99	94	91	97
6209560	92	90	79	91	95	75
6209561	97	99	78	90	94	117
6209562	102	102	86	92	80	103
6209563	78	94	69	99	81	103
6209564	98	102	75	95	94	119
6209565	86	89	85	88	82	95
6209566	89	89	94	88	97	94
6209567	89	94	107	87	104	85

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Surrogate Quality Control

6209568	71	91	100	76	80	83
6209569	72	76	115	90	90	122
Blank	91	93	108	95	91	93
LCS	96	96	102	98	92	94
MS	87	96	113	95	100	95
MSD	95	93	102	93	92	92
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11060SLB026

	N-Nitrosodimethylamine-d6
6209565	100
6209566	82
6209567	91
6209568	92
6209569	96
Blank	92
LCS	93
MS	99
MSD	112
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11053A34A

	Trifluorotoluene-F
6209565	77
6209566	78
6209567	76
6209568	74
6209569	74
Blank	84
LCS	85
LCSD	86
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11055A20A

	Trifluorotoluene-F
6209570	82
Blank	82
LCS	101
LCSD	101
Limits:	63-135

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110530006A

	Butyraldehyde
6209565	113

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Surrogate Quality Control

6209566	107
6209567	113
6209568	104
6209569	105
Blank	118
LCS	121
MS	117
MSD	112
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110530007A

	2-Nitro-m-xylene
6209565	123
6209566	118
6209567	105
6209568	112
6209569	119
Blank	116
LCS	130
LCSD	125
MS	104
MSD	108
Limits:	80-146

Analysis Name: 12a Pesticides by 8081A
Batch number: 110530014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6209557	68	101
6209558	80	100
6209559	83	75
6209560	68	77
6209561	73	100
6209562	74	70
6209563	88	78
6209564	82	68
Blank	71	102
LCS	77	104
MS	73	77
MSD	78	73
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110540017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6209557	85	107
6209558	84	102
6209559	104	112
6209560	104	125*
6209561	103	118
6209562	95	142*

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Surrogate Quality Control

6209563	101	113
6209564	105	114
6209565	107	111
6209566	99	110
6209567	102	107
6209568	90	96
6209569	104	115
Blank	74	118
LCS	88	104
LCSD	99	100
MS	68	85
MSD	88	111
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110540018A

	2,4-Dichlorophenylacetic acid
6209564	141
Blank	96
LCS	92
MS	142
MSD	69
Limits:	36-156

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110570005A

	2,4-Dichlorophenylacetic acid
6209557	85
6209558	68
6209559	155
6209560	93
6209561	102
6209562	131
6209563	62
Blank	80
LCS	82
MS	105
MSD	96
Limits:	36-156

Analysis Name: 25a Alcohols by 8015B
Batch number: 110490013A

	Acetone
6209565	84
6209566	87
6209567	84
6209568	79
6209569	75
Blank	94

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Surrogate Quality Control

LCS	94
MS	82
MSD	83
Limits:	42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 110520024A

	Tetramethylene glycol
6209565	62
6209566	79
6209567	81
6209568	75
6209569	66
Blank	110
LCS	107
MS	101
MSD	92
Limits:	29-137

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110530028A

	n-Triacontane-d62
6209565	75
6209566	76
6209567	73
6209568	78
6209569	77
Blank	80
LCS	78
MS	85
MSD	81
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110530029A

	Chlorobenzene	Orthoterphenyl
6209565	74	82
6209566	74	85
6209567	70	85
6209568	55	78
6209569	60	76
Blank	78	89
LCS	80	91
MS	66	104
MSD	56	89
Limits:	37-125	47-145

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

acct#13013 cp# 1233760 sample# 6209557-70

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetraphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-021-SA5A-SS-0.0-0.5	2.17.2011	0940	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-021-SA5A-SS-0.0-0.5	2.17.2011	0940	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-022-SA5A-SS-0.0-0.5	2.17.2011	0925	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-022-SA5A-SS-0.0-0.5	2.17.2011	0925	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-035-SA5A-SS-0.0-0.5	2.17.2011	1040	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-035-SA5A-SS-0.0-0.5	2.17.2011	1040	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-036-SA5A-SS-0.0-0.5	2.17.2011	1358	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-036-SA5A-SS-0.0-0.5	2.17.2011	1358	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-037-SA5A-SS-0.0-0.5	2.17.2011	1328	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X														
SL-037-SA5A-SS-0.0-0.5	2.17.2011	1328	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-040-SA5A-SS-0.0-0.5	2.17.2011	1310	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-040-SA5A-SS-0.0-0.5	2.17.2011	1310	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-050-SA5A-SS-0.0-0.5	2.17.2011	1420	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-050-SA5A-SS-0.0-0.5	2.17.2011	1420	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-051-SA5A-SS-0.0-0.5	2.17.2011	1440	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-051-SA5A-SS-0.0-0.5	2.17.2011	1440	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-321-SA5B-SB-3.0-4.0	2.17.2011	1309	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-321-SA5B-SB-3.5	2.17.2011	1305	SOIL	NONE	5-Encores											X	X	X											
SL-322-SA5B-SB-3.0-4.0	2.17.2011	1530	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-322-SA5B-SB-3.5	2.17.2011	1526	SOIL	NONE	5-Encores											X	X	X											
SL-331-SA5B-SB-3.0-4.0	2.17.2011	1144	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-331-SA5B-SB-3.5	2.17.2011	1139	SOIL	NONE	5-Encores											X	X	X											
SL-336-SA5B-SB-4.0-5.0	2.17.2011	0919	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-336-SA5B-SB-4.5	2.17.2011	0915	SOIL	NONE	5-Encores											X	X	X											
SL-337-SA5B-SB-3.0-4.0	2.17.2011	1033	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-337-SA5B-SB-3.5	2.17.2011	1028	SOIL	NONE	5-Encores											X	X	X											
TB-021711	2.17.2011	0600	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	02/17/2011 / 17:00		2/18/11 845
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8695 1432 3151, ...3162	

Laboratory:
Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

March 16, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/18/2011
Group Number: 1233761
SDG: DX052
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-021-SA5A-SS-0.0-0.5 Soil	6209571
SL-022-SA5A-SS-0.0-0.5 Soil	6209572
SL-035-SA5A-SS-0.0-0.5 Soil	6209573
SL-036-SA5A-SS-0.0-0.5 Soil	6209574
SL-037-SA5A-SS-0.0-0.5 Soil	6209575
SL-040-SA5A-SS-0.0-0.5 Soil	6209576
SL-050-SA5A-SS-0.0-0.5 Soil	6209577
SL-051-SA5A-SS-0.0-0.5 Soil	6209578
SL-321-SA5B-SB-3.0-4.0 Soil	6209579
SL-322-SA5B-SB-3.0-4.0 Soil	6209580
SL-331-SA5B-SB-3.0-4.0 Soil	6209581
SL-336-SA5B-SB-4.0-5.0 Soil	6209582
SL-337-SA5B-SB-3.0-4.0 Soil	6209583

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

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-021-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209571
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5201 SDG#: DX052-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

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

Sample Description: **SL-021-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209571
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5201 SDG#: DX052-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.107	JQ	0.0200	1.11	1
11031	12378-PeCDD	40321-76-4	0.899	J	0.0535	5.57	1
11031	123478-HxCDD	39227-28-6	1.36	JB	0.0746	5.57	1
11031	123678-HxCDD	57653-85-7	3.02	JB	0.0767	5.57	1
11031	123789-HxCDD	19408-74-3	3.34	JB	0.0717	5.57	1
11031	1234678-HpCDD	35822-46-9	75.2	B	0.0976	5.57	1
11031	OCDD	3268-87-9	1,560	B	0.0939	11.1	1
11031	2378-TCDF	51207-31-9	0.0872	JQ	0.0343	1.11	1
11031	12378-PeCDF	57117-41-6	0.151	JB	0.0180	5.57	1
11031	23478-PeCDF	57117-31-4	0.345	JB	0.0184	5.57	1
11031	123478-HxCDF	70648-26-9	0.324	JB	0.0460	5.57	1
11031	123678-HxCDF	57117-44-9	0.177	JB	0.0369	5.57	1
11031	123789-HxCDF	72918-21-9	0.440	JB	0.0447	5.57	1
11031	234678-HxCDF	60851-34-5	0.291	JB	0.0378	5.57	1
11031	1234678-HpCDF	67562-39-4	3.95	JB	0.0254	5.57	1
11031	1234789-HpCDF	55673-89-7	0.228	JBQ	0.0381	5.57	1
11031	OCDF	39001-02-0	12.3	B	0.0430	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209571
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5201 SDG#: DX052-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209571
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5201 SDG#: DX052-01

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 14:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209572
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5202 SDG#: DX052-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.9	0.50	0.50	1

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

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209572
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5202 SDG#: DX052-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0753	J	0.0191	1.09	1
11031	12378-PeCDD	40321-76-4	0.697	J	0.0477	5.43	1
11031	123478-HxCDD	39227-28-6	1.01	JB	0.0895	5.43	1
11031	123678-HxCDD	57653-85-7	2.27	JB	0.0914	5.43	1
11031	123789-HxCDD	19408-74-3	2.46	JB	0.0838	5.43	1
11031	1234678-HpCDD	35822-46-9	55.0	B	0.0796	5.43	1
11031	OCDD	3268-87-9	1,150	B	0.0769	10.9	1
11031	2378-TCDF	51207-31-9	0.270	J	0.0406	1.09	1
11031	12378-PeCDF	57117-41-6	0.159	JBQ	0.0217	5.43	1
11031	23478-PeCDF	57117-31-4	0.487	JB	0.0227	5.43	1
11031	123478-HxCDF	70648-26-9	0.465	JB	0.0468	5.43	1
11031	123678-HxCDF	57117-44-9	0.176	JB	0.0360	5.43	1
11031	123789-HxCDF	72918-21-9	0.297	JB	0.0425	5.43	1
11031	234678-HxCDF	60851-34-5	0.273	JBQ	0.0346	5.43	1
11031	1234678-HpCDF	67562-39-4	3.38	JB	0.0260	5.43	1
11031	1234789-HpCDF	55673-89-7	0.242	JBQ	0.0391	5.43	1
11031	OCDF	39001-02-0	10.7	JB	0.0353	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209572
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5202 SDG#: DX052-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209572
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5202 SDG#: DX052-02

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 15:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209573
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5203 SDG#: DX052-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

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

Sample Description: **SL-035-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209573
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5203 SDG#: DX052-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0239	JQ	0.0201	1.08	1
11031	12378-PeCDD	40321-76-4	0.224	J	0.0305	5.41	1
11031	123478-HxCDD	39227-28-6	0.246	JB	0.0601	5.41	1
11031	123678-HxCDD	57653-85-7	1.20	JB	0.0640	5.41	1
11031	123789-HxCDD	19408-74-3	1.46	JB	0.0593	5.41	1
11031	1234678-HpCDD	35822-46-9	21.6	B	0.0584	5.41	1
11031	OCDD	3268-87-9	349	B	0.0511	10.8	1
11031	2378-TCDF	51207-31-9	0.0922	JQ	0.0330	1.08	1
11031	12378-PeCDF	57117-41-6	0.126	JBQ	0.0161	5.41	1
11031	23478-PeCDF	57117-31-4	0.237	JBQ	0.0172	5.41	1
11031	123478-HxCDF	70648-26-9	0.334	JBQ	0.0438	5.41	1
11031	123678-HxCDF	57117-44-9	0.189	JB	0.0348	5.41	1
11031	123789-HxCDF	72918-21-9	0.333	JBQ	0.0424	5.41	1
11031	234678-HxCDF	60851-34-5	0.187	JB	0.0371	5.41	1
11031	1234678-HpCDF	67562-39-4	2.57	JB	0.0210	5.41	1
11031	1234789-HpCDF	55673-89-7	0.243	JB	0.0345	5.41	1
11031	OCDF	39001-02-0	7.00	JB	0.0348	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209573
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5203 SDG#: DX052-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209573
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5203 SDG#: DX052-03

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 15:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209574
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5204 SDG#: DX052-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

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

Sample Description: **SL-036-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209574
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5204 SDG#: DX052-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.154	J	0.0224	1.10	1
11031	12378-PeCDD	40321-76-4	1.61	J	0.0831	5.49	1
11031	123478-HxCDD	39227-28-6	3.40	JB	0.0996	5.49	1
11031	123678-HxCDD	57653-85-7	9.81	B	0.102	5.49	1
11031	123789-HxCDD	19408-74-3	6.71	B	0.0899	5.49	1
11031	1234678-HpCDD	35822-46-9	286	B	0.174	5.49	1
11031	OCDD	3268-87-9	6,230	EB	0.141	11.0	1
11031	2378-TCDF	51207-31-9	0.324	J	0.109	1.10	1
11031	12378-PeCDF	57117-41-6	0.677	JBQ	0.0482	5.49	1
11031	23478-PeCDF	57117-31-4	1.19	JB	0.0486	5.49	1
11031	123478-HxCDF	70648-26-9	2.09	JB	0.0852	5.49	1
11031	123678-HxCDF	57117-44-9	0.786	JB	0.0728	5.49	1
11031	123789-HxCDF	72918-21-9	0.476	JB	0.0692	5.49	1
11031	234678-HxCDF	60851-34-5	0.913	JB	0.0587	5.49	1
11031	1234678-HpCDF	67562-39-4	17.5	B	0.0593	5.49	1
11031	1234789-HpCDF	55673-89-7	0.954	JB	0.0676	5.49	1
11031	OCDF	39001-02-0	60.5	B	0.0427	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209574
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5204 SDG#: DX052-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209574
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5204 SDG#: DX052-04

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 16:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209575
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5205 SDG#: DX052-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

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

Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209575
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5205 SDG#: DX052-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0856	J	0.0213	1.08	1
11031	12378-PeCDD	40321-76-4	0.858	J	0.0560	5.38	1
11031	123478-HxCDD	39227-28-6	1.56	JB	0.0865	5.38	1
11031	123678-HxCDD	57653-85-7	4.00	JB	0.0904	5.38	1
11031	123789-HxCDD	19408-74-3	3.46	JB	0.0891	5.38	1
11031	1234678-HpCDD	35822-46-9	125	B	0.136	5.38	1
11031	OCDD	3268-87-9	2,250	B	0.151	10.8	1
11031	2378-TCDF	51207-31-9	0.464	J	0.119	1.08	1
11031	12378-PeCDF	57117-41-6	0.434	JB	0.0475	5.38	1
11031	23478-PeCDF	57117-31-4	1.28	JB	0.0471	5.38	1
11031	123478-HxCDF	70648-26-9	1.58	JB	0.0678	5.38	1
11031	123678-HxCDF	57117-44-9	0.655	JB	0.0554	5.38	1
11031	123789-HxCDF	72918-21-9	0.420	JB	0.0604	5.38	1
11031	234678-HxCDF	60851-34-5	0.983	JB	0.0559	5.38	1
11031	1234678-HpCDF	67562-39-4	10.5	B	0.0398	5.38	1
11031	1234789-HpCDF	55673-89-7	0.701	JB	0.0532	5.38	1
11031	OCDF	39001-02-0	29.4	B	0.0471	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209575
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5205 SDG#: DX052-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209575
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5205 SDG#: DX052-05

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 17:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209576
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5206 SDG#: DX052-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

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

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209576
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5206 SDG#: DX052-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0249	U	0.0249	1.10	1
11031	12378-PeCDD	40321-76-4	0.241	J	0.0342	5.48	1
11031	123478-HxCDD	39227-28-6	0.368	JBQ	0.0775	5.48	1
11031	123678-HxCDD	57653-85-7	0.985	JB	0.0811	5.48	1
11031	123789-HxCDD	19408-74-3	1.14	JB	0.0738	5.48	1
11031	1234678-HpCDD	35822-46-9	24.6	B	0.0689	5.48	1
11031	OCDD	3268-87-9	503	B	0.0664	11.0	1
11031	2378-TCDF	51207-31-9	0.0518	JQ	0.0398	1.10	1
11031	12378-PeCDF	57117-41-6	0.110	JB	0.0220	5.48	1
11031	23478-PeCDF	57117-31-4	0.198	JB	0.0212	5.48	1
11031	123478-HxCDF	70648-26-9	0.335	JB	0.0522	5.48	1
11031	123678-HxCDF	57117-44-9	0.145	JB	0.0400	5.48	1
11031	123789-HxCDF	72918-21-9	0.317	JB	0.0467	5.48	1
11031	234678-HxCDF	60851-34-5	0.198	JBQ	0.0382	5.48	1
11031	1234678-HpCDF	67562-39-4	2.25	JB	0.0286	5.48	1
11031	1234789-HpCDF	55673-89-7	0.195	JB	0.0415	5.48	1
11031	OCDF	39001-02-0	6.49	JB	0.0346	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209576
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5206 SDG#: DX052-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209576
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5206 SDG#: DX052-06

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 18:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209577
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5207 SDG#: DX052-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

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

Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209577
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5207 SDG#: DX052-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0762	JQ	0.0211	1.10	1
11031	12378-PeCDD	40321-76-4	0.437	J	0.0412	5.51	1
11031	123478-HxCDD	39227-28-6	0.378	JB	0.0731	5.51	1
11031	123678-HxCDD	57653-85-7	1.09	JBQ	0.0713	5.51	1
11031	123789-HxCDD	19408-74-3	1.15	JB	0.0646	5.51	1
11031	1234678-HpCDD	35822-46-9	21.5	B	0.0615	5.51	1
11031	OCDD	3268-87-9	440	B	0.0634	11.0	1
11031	2378-TCDF	51207-31-9	0.0910	JQ	0.0283	1.10	1
11031	12378-PeCDF	57117-41-6	0.0781	JBQ	0.0178	5.51	1
11031	23478-PeCDF	57117-31-4	0.247	JB	0.0178	5.51	1
11031	123478-HxCDF	70648-26-9	0.460	JB	0.0520	5.51	1
11031	123678-HxCDF	57117-44-9	0.121	JBQ	0.0370	5.51	1
11031	123789-HxCDF	72918-21-9	0.301	JB	0.0332	5.51	1
11031	234678-HxCDF	60851-34-5	0.154	JB	0.0275	5.51	1
11031	1234678-HpCDF	67562-39-4	1.80	JB	0.0308	5.51	1
11031	1234789-HpCDF	55673-89-7	0.120	JB	0.0354	5.51	1
11031	OCDF	39001-02-0	5.24	JB	0.0347	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209577
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5207 SDG#: DX052-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209577
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5207 SDG#: DX052-07

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 19:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209578
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5208 SDG#: DX052-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

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

Sample Description: **SL-051-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209578
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5208 SDG#: DX052-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.168	J	0.0217	1.11	1
11031	12378-PeCDD	40321-76-4	1.79	J	0.0697	5.54	1
11031	123478-HxCDD	39227-28-6	2.57	JB	0.0792	5.54	1
11031	123678-HxCDD	57653-85-7	6.23	B	0.0808	5.54	1
11031	123789-HxCDD	19408-74-3	6.66	B	0.0749	5.54	1
11031	1234678-HpCDD	35822-46-9	170	B	0.127	5.54	1
11031	OCDD	3268-87-9	3,520	B	0.123	11.1	1
11031	2378-TCDF	51207-31-9	0.370	J	0.0559	1.11	1
11031	12378-PeCDF	57117-41-6	0.280	JBQ	0.0297	5.54	1
11031	23478-PeCDF	57117-31-4	0.759	JB	0.0296	5.54	1
11031	123478-HxCDF	70648-26-9	1.15	JB	0.0722	5.54	1
11031	123678-HxCDF	57117-44-9	0.465	JB	0.0526	5.54	1
11031	123789-HxCDF	72918-21-9	0.519	JB	0.0617	5.54	1
11031	234678-HxCDF	60851-34-5	0.574	JB	0.0502	5.54	1
11031	1234678-HpCDF	67562-39-4	9.91	B	0.0362	5.54	1
11031	1234789-HpCDF	55673-89-7	0.515	JB	0.0549	5.54	1
11031	OCDF	39001-02-0	30.4	B	0.0440	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209578
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5208 SDG#: DX052-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209578
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5208 SDG#: DX052-08

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 20:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-321-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209579
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5209 SDG#: DX052-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

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

Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209579
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5209 SDG#: DX052-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0232	JQ	0.0194	1.14	1
11031	12378-PeCDD	40321-76-4	0.0867	JQ	0.0229	5.69	1
11031	123478-HxCDD	39227-28-6	0.0297	U	0.0297	5.69	1
11031	123678-HxCDD	57653-85-7	1.84	JB	0.0298	5.69	1
11031	123789-HxCDD	19408-74-3	1.94	JB	0.0293	5.69	1
11031	1234678-HpCDD	35822-46-9	0.399	JB	0.0265	5.69	1
11031	OCDD	3268-87-9	1.96	JB	0.0272	11.4	1
11031	2378-TCDF	51207-31-9	0.0154	U	0.0154	1.14	1
11031	12378-PeCDF	57117-41-6	0.110	JB	0.00968	5.69	1
11031	23478-PeCDF	57117-31-4	0.113	JBQ	0.0107	5.69	1
11031	123478-HxCDF	70648-26-9	0.0698	JB	0.0228	5.69	1
11031	123678-HxCDF	57117-44-9	1.26	JB	0.0150	5.69	1
11031	123789-HxCDF	72918-21-9	0.130	JBQ	0.0178	5.69	1
11031	234678-HxCDF	60851-34-5	0.0410	JB	0.0140	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0701	JB	0.0114	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0491	JBQ	0.0178	5.69	1
11031	OCDF	39001-02-0	0.157	JBQ	0.0237	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-321-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209579
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5209 SDG#: DX052-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-321-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209579
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5209 SDG#: DX052-09

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/04/2011 00:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-322-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209580
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5210 SDG#: DX052-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1

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

Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209580
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5210 SDG#: DX052-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0216	U	0.0216	1.07	1
11031	12378-PeCDD	40321-76-4	0.0213	JQ	0.0197	5.34	1
11031	123478-HxCDD	39227-28-6	0.0158	U	0.0158	5.34	1
11031	123678-HxCDD	57653-85-7	0.0214	JB	0.0159	5.34	1
11031	123789-HxCDD	19408-74-3	0.0168	JBQ	0.0147	5.34	1
11031	1234678-HpCDD	35822-46-9	0.234	JB	0.0190	5.34	1
11031	OCDD	3268-87-9	0.727	JB	0.0231	10.7	1
11031	2378-TCDF	51207-31-9	0.0140	U	0.0140	1.07	1
11031	12378-PeCDF	57117-41-6	0.0273	JB	0.00929	5.34	1
11031	23478-PeCDF	57117-31-4	0.0470	JBQ	0.00962	5.34	1
11031	123478-HxCDF	70648-26-9	0.0149	U	0.0149	5.34	1
11031	123678-HxCDF	57117-44-9	0.0108	U	0.0108	5.34	1
11031	123789-HxCDF	72918-21-9	0.0168	JBQ	0.0114	5.34	1
11031	234678-HxCDF	60851-34-5	0.00923	JBQ	0.00919	5.34	1
11031	1234678-HpCDF	67562-39-4	0.0393	JB	0.00929	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0191	JBQ	0.0121	5.34	1
11031	OCDF	39001-02-0	0.0866	JBQ	0.0201	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-322-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209580
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5210 SDG#: DX052-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-322-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209580
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5210 SDG#: DX052-10

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/04/2011 01:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-331-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209581
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5211 SDG#: DX052-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

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

Sample Description: SL-331-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209581
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5211 SDG#: DX052-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0169	U	0.0169	1.08	1
11031	12378-PeCDD	40321-76-4	0.0189	JQ	0.0154	5.38	1
11031	123478-HxCDD	39227-28-6	0.0188	U	0.0188	5.38	1
11031	123678-HxCDD	57653-85-7	0.112	JB	0.0184	5.38	1
11031	123789-HxCDD	19408-74-3	0.204	JB	0.0170	5.38	1
11031	1234678-HpCDD	35822-46-9	0.179	JBQ	0.0189	5.38	1
11031	OCDD	3268-87-9	1.36	JB	0.0315	10.8	1
11031	2378-TCDF	51207-31-9	0.0133	U	0.0133	1.08	1
11031	12378-PeCDF	57117-41-6	0.0280	JBQ	0.00872	5.38	1
11031	23478-PeCDF	57117-31-4	0.0530	JBQ	0.00904	5.38	1
11031	123478-HxCDF	70648-26-9	0.0182	JBQ	0.0180	5.38	1
11031	123678-HxCDF	57117-44-9	0.0274	JBQ	0.0122	5.38	1
11031	123789-HxCDF	72918-21-9	0.0985	JBQ	0.0110	5.38	1
11031	234678-HxCDF	60851-34-5	0.0127	JBQ	0.00936	5.38	1
11031	1234678-HpCDF	67562-39-4	0.0382	JB	0.0107	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0245	JBQ	0.0116	5.38	1
11031	OCDF	39001-02-0	0.0746	JBQ	0.0167	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-331-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209581
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5211 SDG#: DX052-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-331-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209581
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5211 SDG#: DX052-11

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/04/2011 02:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-336-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209582
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5212 SDG#: DX052-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

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

Sample Description: SL-336-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209582
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5212 SDG#: DX052-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244	U	0.0244	1.15	1
11031	12378-PeCDD	40321-76-4	0.0223	U	0.0223	5.77	1
11031	123478-HxCDD	39227-28-6	0.0291	U	0.0291	5.77	1
11031	123678-HxCDD	57653-85-7	0.192	JBQ	0.0283	5.77	1
11031	123789-HxCDD	19408-74-3	0.254	JBQ	0.0256	5.77	1
11031	1234678-HpCDD	35822-46-9	1.47	JB	0.0546	5.77	1
11031	OCDD	3268-87-9	21.1	B	0.0258	11.5	1
11031	2378-TCDF	51207-31-9	0.0173	U	0.0173	1.15	1
11031	12378-PeCDF	57117-41-6	0.0461	JB	0.0112	5.77	1
11031	23478-PeCDF	57117-31-4	0.0735	JBQ	0.0117	5.77	1
11031	123478-HxCDF	70648-26-9	0.0879	JB	0.0270	5.77	1
11031	123678-HxCDF	57117-44-9	0.0564	JBQ	0.0171	5.77	1
11031	123789-HxCDF	72918-21-9	0.229	JB	0.0164	5.77	1
11031	234678-HxCDF	60851-34-5	0.0336	JBQ	0.0132	5.77	1
11031	1234678-HpCDF	67562-39-4	0.127	JB	0.0163	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0661	JBQ	0.0193	5.77	1
11031	OCDF	39001-02-0	0.334	JB	0.0249	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	30	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

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

Sample Description: **SL-336-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209582
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5212 SDG#: DX052-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-336-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209582
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5212 SDG#: DX052-12

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/04/2011 03:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-337-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209583
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5213 SDG#: DX052-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

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

Sample Description: **SL-337-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209583
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5213 SDG#: DX052-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0184	U	0.0184	1.14	1
11031	12378-PeCDD	40321-76-4	0.0372	JQ	0.0247	5.71	1
11031	123478-HxCDD	39227-28-6	0.0439	U	0.0439	5.71	1
11031	123678-HxCDD	57653-85-7	0.315	JB	0.0452	5.71	1
11031	123789-HxCDD	19408-74-3	0.434	JB	0.0412	5.71	1
11031	1234678-HpCDD	35822-46-9	6.10	B	0.0647	5.71	1
11031	OCDD	3268-87-9	75.3	B	0.0340	11.4	1
11031	2378-TCDF	51207-31-9	0.0158	U	0.0158	1.14	1
11031	12378-PeCDF	57117-41-6	0.0423	JB	0.0120	5.71	1
11031	23478-PeCDF	57117-31-4	0.112	JB	0.0122	5.71	1
11031	123478-HxCDF	70648-26-9	0.105	JBQ	0.0239	5.71	1
11031	123678-HxCDF	57117-44-9	0.0732	JBQ	0.0178	5.71	1
11031	123789-HxCDF	72918-21-9	0.275	JB	0.0167	5.71	1
11031	234678-HxCDF	60851-34-5	0.0297	JBQ	0.0134	5.71	1
11031	1234678-HpCDF	67562-39-4	0.440	JB	0.0267	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0654	JBQ	0.0305	5.71	1
11031	OCDF	39001-02-0	1.08	JB	0.0322	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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

Sample Description: **SL-337-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209583
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5213 SDG#: DX052-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-337-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209583
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

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

X5213 SDG#: DX052-13

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/04/2011 04:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233761
Reported: 03/16/11 at 09:03 AM

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11060162401A	Sample number(s): 6209571-6209578								
28a Moisture Content by 160.3					99		80-120		
Batch number: 11061162401B	Sample number(s): 6209579-6209583								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11055001	Sample number(s): 6209571-6209583								
2378-TCDD	0.0184 U	0.0184	1.00	ng/kg	92		67-158		
12378-PeCDD	0.0147 U	0.0147	5.00	ng/kg	92		70-142		
123478-HxCDD	0.0169 J	0.0135	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0223 J	0.0137	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0217 J	0.0137	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.162 J	0.0160	5.00	ng/kg	90		70-140		
OCDD	0.458 J	0.0235	10.0	ng/kg	90		78-144		
2378-TCDF	0.0151 U	0.0151	1.00	ng/kg	99		75-158		
12378-PeCDF	0.0211 J	0.00810	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0643 J	0.00830	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0232 J	0.0118	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0318 J	0.00870	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0591 J	0.0114	5.00	ng/kg	92		78-130		
234678-HxCDF	0.0278 J	0.00940	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0644 J	0.00660	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0566 J	0.0109	5.00	ng/kg	91		78-138		
OCDF	0.148 J	0.0203	10.0	ng/kg	91		63-170		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11060162401A	Sample number(s): 6209571-6209578					BKG: P208348			
28a Moisture Content by 160.3						9.7	9.6	0	20
Batch number: 11061162401B	Sample number(s): 6209579-6209583					BKG: P206985			
28a Moisture Content by 160.3						8.3	9.2	10	20

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233761
Reported: 03/16/11 at 09:03 AM

Surrogate Quality Control

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

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11055001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6209571	75	75	62	76	73	70
6209572	75	77	57	73	73	69
6209573	70	75	61	74	71	68
6209574	77	79	59	67	78	79
6209575	80	81	64	76	77	77
6209576	69	74	52	66	68	63
6209577	69	73	39	54	69	66
6209578	74	76	53	70	72	66
6209579	65	65	41	59	63	55
6209580	64	67	42	58	65	60
6209581	68	66	34	49	66	61
6209582	63	63	30	46	62	54
6209583	70	73	42	55	70	66
Blank	73	69	56	72	68	62
OPR	72	70	42	59	68	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6209571	86	64	62	87	77	77
6209572	86	64	61	88	80	74
6209573	89	63	60	85	77	74
6209574	72	73	70	86	81	71
6209575	83	72	69	89	83	79
6209576	78	63	61	80	77	69
6209577	62	63	58	85	75	66
6209578	84	63	59	84	78	74
6209579	71	52	47	84	74	68
6209580	66	56	52	83	70	67
6209581	54	57	53	84	69	63
6209582	53	55	50	78	69	60
6209583	64	62	58	86	76	66
Blank	85	58	56	96	76	73
OPR	65	61	56	85	74	68
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6209571	77	78	77	78	73	84
6209572	76	79	78	76	72	85
6209573	74	76	77	76	68	81
6209574	75	81	77	79	78	84
6209575	81	82	80	77	77	86
6209576	72	74	74	74	68	80
6209577	71	74	73	71	68	77
6209578	75	78	76	76	72	82

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233761
Reported: 03/16/11 at 09:03 AM

Surrogate Quality Control

6209579	71	71	72	68	60	76
6209580	68	70	69	67	62	74
6209581	68	70	70	70	65	74
6209582	65	70	71	71	58	71
6209583	69	73	73	74	67	80
Blank	75	75	76	74	65	79
OPR	70	73	72	69	66	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

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

acct#13013 Cap# 1233761 sample# 6209571-83

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	Perchlorate Confirmation by EPA 6850 (10%)	SB ONLY: *Asbestos EPA 9002/A (surface soil only)	*Radiologics EPA 9310 (surface soil only)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: *pH EPA 9045C	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-021-SA5A-SS-0.0-0.5	2.17.2011	0940	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-021-SA5A-SS-0.0-0.5	2.17.2011	0940	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-022-SA5A-SS-0.0-0.5	2.17.2011	0925	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-022-SA5A-SS-0.0-0.5	2.17.2011	0925	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-035-SA5A-SS-0.0-0.5	2.17.2011	1040	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-035-SA5A-SS-0.0-0.5	2.17.2011	1040	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-036-SA5A-SS-0.0-0.5	2.17.2011	1358	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-036-SA5A-SS-0.0-0.5	2.17.2011	1358	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-037-SA5A-SS-0.0-0.5	2.17.2011	1328	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X													
SL-037-SA5A-SS-0.0-0.5	2.17.2011	1328	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-040-SA5A-SS-0.0-0.5	2.17.2011	1310	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-040-SA5A-SS-0.0-0.5	2.17.2011	1310	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-050-SA5A-SS-0.0-0.5	2.17.2011	1420	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-050-SA5A-SS-0.0-0.5	2.17.2011	1420	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-051-SA5A-SS-0.0-0.5	2.17.2011	1440	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-051-SA5A-SS-0.0-0.5	2.17.2011	1440	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-321-SA5B-SB-3.0-4.0	2.17.2011	1309	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-321-SA5B-SB-3.5	2.17.2011	1305	SOIL	NONE	5-Encores											X	X	X										
SL-322-SA5B-SB-3.0-4.0	2.17.2011	1530	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-322-SA5B-SB-3.5	2.17.2011	1526	SOIL	NONE	5-Encores											X	X	X										
SL-331-SA5B-SB-3.0-4.0	2.17.2011	1144	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-331-SA5B-SB-3.5	2.17.2011	1139	SOIL	NONE	5-Encores											X	X	X										
SL-336-SA5B-SB-4.0-5.0	2.17.2011	0919	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-336-SA5B-SB-4.5	2.17.2011	0915	SOIL	NONE	5-Encores											X	X	X										
SL-337-SA5B-SB-3.0-4.0	2.17.2011	1033	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-337-SA5B-SB-3.5	2.17.2011	1028	SOIL	NONE	5-Encores											X	X	X										
TB-021711	2.17.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	02/17/2011 / 17:00	Yong Hwa	2/18/11 845
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8695 1432 3151, ...3162	

Laboratory:
Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

March 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/19/2011
Group Number: 1233933
SDG: DE086
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP01-SA5A-QC-021811 Soil	6210666
SL-049-SA5A-SS-0.0-0.5 Soil	6210667
SL-052-SA5A-SS-0.0-0.5 Soil	6210668
SL-053-SA5A-SS-0.0-0.5 Soil	6210669
SL-096-SA5A-SS-0.0-0.5 Soil	6210670
SL-098-SA5A-SS-0.0-0.5 Soil	6210671
SL-099-SA5A-SS-0.0-0.5 Soil	6210672
SL-099-SA5A-SS-0.0-0.5MS Soil	6210673
SL-099-SA5A-SS-0.0-0.5MSD Soil	6210674
SL-099-SA5A-SS-0.0-0.5DUP Soil	6210675
SL-100-SA5A-SS-0.0-0.5 Soil	6210676
SL-101-SA5A-SS-0.0-0.5 Soil	6210677
SL-102-SA5A-SS-0.0-0.5 Soil	6210678
SL-241-SA5A-SS-0.0-0.5 Soil	6210679
SL-242-SA5A-SS-0.0-0.5 Soil	6210680

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

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

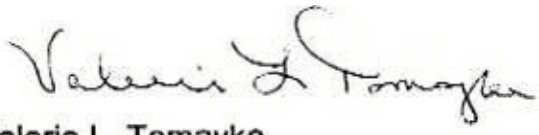
Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,



Valerie L. Tomayko
Group Leader

Lancaster Laboratories

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

Analysis Report

Sample Description: DUP01-SA5A-QC-021811 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA5A-QC-021811

LLI Sample # SW 6210666
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8601 SDG#: DE086-01FD

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

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

Sample Description: **DUP01-SA5A-QC-021811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA5A-QC-021811

LLI Sample # SW 6210666
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8601 SDG#: DE086-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	J	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	9.9	J	6.7	20	1
10138	Chrysene	218-01-9	1.1	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.7	20	1
10138	Fluoranthene	206-44-0	1.2	J	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.82	J	0.74	1.8	1
10138	Pyrene	129-00-0	1.0	J	0.74	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	2.9	U	2.9	2.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	190	U	190	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

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

Sample Description: **DUP01-SA5A-QC-021811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA5A-QC-021811

LLI Sample # SW 6210666
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8601 SDG#: DE086-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	3.0	U	3.0	3.8	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38	1
01363	p,p-DDE	72-55-9	0.14	J	0.073	0.38	1
01363	p,p-DDT	50-29-3	0.42		0.073	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.11	J	0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.13	J	0.073	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.044	U	0.044	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported for heptachlor epoxide and technical chlordane represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.78	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.56	J	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,700		5.58	22.2	1
07914	Boron	7440-42-8	2.61	J	0.988	5.55	1
01650	Calcium	7440-70-2	2,460		6.80	22.2	1
01654	Iron	7439-89-6	22,100		5.23	22.2	1
01656	Lithium	7439-93-2	23.6		0.24	2.2	1
01657	Magnesium	7439-95-4	4,090		2.82	11.1	1

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

Sample Description: **DUP01-SA5A-QC-021811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA5A-QC-021811

LLI Sample # SW 6210666
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8601 SDG#: DE086-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	312		0.0866	0.555	1
10145	Phosphorus	7723-14-0	341		0.622	11.1	1
01662	Potassium	7440-09-7	3,260		20.0	55.5	1
01667	Sodium	7440-23-5	80.0	J	41.4	111	1
07968	Strontium	7440-24-6	19.9		0.0688	0.555	1
06969	Tin	7440-31-5	2.65	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,070		0.422	1.11	1
10146	Zirconium	7440-67-7	3.40	J	0.932	5.55	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.203	J	0.0666	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.14		0.0888	0.444	2
06126	Barium	7440-39-3	142		0.120	0.444	2
06127	Beryllium	7440-41-7	0.942		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.220		0.0435	0.109	2
06131	Chromium	7440-47-3	26.9		0.133	0.444	2
06132	Cobalt	7440-48-4	10.4		0.0222	0.111	2
06133	Copper	7440-50-8	11.5		0.0733	0.444	2
06135	Lead	7439-92-1	13.9		0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.881		0.0555	0.111	2
06139	Nickel	7440-02-0	18.6		0.111	0.444	2
06141	Selenium	7782-49-2	0.183	J	0.0444	0.444	2
06142	Silver	7440-22-4	0.0822	J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.433		0.0333	0.111	2
06148	Vanadium	7440-62-2	50.7		0.0244	0.111	2
06149	Zinc	7440-66-6	54.1		0.622	3.33	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	413		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

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

Sample Description: **DUP01-SA5A-QC-021811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA5A-QC-021811

LLI Sample # SW 6210666
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8601 SDG#: DE086-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.56	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/02/2011 00:30	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	03/01/2011 11:52	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110550012A	02/26/2011 01:33	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 05:58	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 09:07	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110550012A	02/25/2011 03:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 10:06	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 10:06	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 10:06	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 10:06	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110535708002	03/01/2011 16:33	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 10:06	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 10:06	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 10:06	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 10:06	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 10:06	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 10:06	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 10:06	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 10:06	Joanne M Gates	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: DUP01-SA5A-QC-021811 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA5A-QC-021811

LLI Sample # SW 6210666
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8601 SDG#: DE086-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 10:06	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 10:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201A	03/04/2011 04:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202A	03/01/2011 02:01	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243202A	02/25/2011 11:12	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201A	03/03/2011 10:55	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SS-0.0-0.5

LLI Sample # SW 6210667
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:25

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8602 SDG#: DE086-02

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

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

Sample Description: SL-049-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SS-0.0-0.5

LLI Sample # SW 6210667
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:25

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8602 SDG#: DE086-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	J	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.8	J	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	J	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	1.8	J	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	24		6.7	20	1
10138	Fluoranthene	206-44-0	1.9		0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	1.2	J	0.75	1.9	1
10138	Pyrene	129-00-0	1.6	J	0.75	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	11	U	11	11	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.1	U	1.1	1.9	1
10401	MCPA	94-74-6	85	U	85	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.48		0.084	0.19	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DP and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

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

Sample Description: **SL-049-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SS-0.0-0.5

LLI Sample # SW 6210667
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:25

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8602 SDG#: DE086-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.38	J	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.46		0.074	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.18	U	0.18	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported for endrin aldehyde represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.8	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.84	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.84	J	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.52	21.9	1
07914	Boron	7440-42-8	1.87	J	0.976	5.48	1
01650	Calcium	7440-70-2	2,520		6.72	21.9	1
01654	Iron	7439-89-6	20,200		5.17	21.9	1
01656	Lithium	7439-93-2	22.2		0.24	2.2	1
01657	Magnesium	7439-95-4	4,370		2.79	11.0	1
06958	Manganese	7439-96-5	370		0.0855	0.548	1

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

Sample Description: SL-049-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SS-0.0-0.5

LLI Sample # SW 6210667
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:25

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8602 SDG#: DE086-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	540		0.614	11.0	1
01662	Potassium	7440-09-7	3,810		19.7	54.8	1
01667	Sodium	7440-23-5	88.3	J	40.9	110	1
07968	Strontium	7440-24-6	18.7		0.0680	0.548	1
06969	Tin	7440-31-5	2.45	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,040		0.417	1.10	1
10146	Zirconium	7440-67-7	3.25	J	0.921	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.137	J	0.0652	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.98		0.0869	0.434	2
06126	Barium	7440-39-3	144		0.117	0.434	2
06127	Beryllium	7440-41-7	0.578		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.306		0.0443	0.111	2
06131	Chromium	7440-47-3	23.0		0.130	0.434	2
06132	Cobalt	7440-48-4	6.73		0.0217	0.109	2
06133	Copper	7440-50-8	12.6		0.0717	0.434	2
06135	Lead	7439-92-1	11.9		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.735		0.0543	0.109	2
06139	Nickel	7440-02-0	16.1		0.109	0.434	2
06141	Selenium	7782-49-2	0.152	J	0.0434	0.434	2
06142	Silver	7440-22-4	0.0666	J	0.0130	0.109	2
06145	Thallium	7440-28-0	0.308		0.0326	0.109	2
06148	Vanadium	7440-62-2	40.4		0.0239	0.109	2
06149	Zinc	7440-66-6	61.6		0.608	3.26	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	427		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

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

Sample Description: **SL-049-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SS-0.0-0.5

LLI Sample # SW 6210667
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:25

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8602 SDG#: DE086-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.24	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/02/2011 00:55	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	02/28/2011 04:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110550012A	02/26/2011 02:00	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 06:12	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 09:26	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110550012A	02/25/2011 03:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 10:16	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 10:16	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 10:16	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 10:16	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110535708002	03/01/2011 16:37	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 10:16	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 10:16	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 10:16	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 10:16	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 10:16	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 10:16	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 10:16	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 10:16	Joanne M Gates	1

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

Sample Description: **SL-049-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SS-0.0-0.5

LLI Sample # SW 6210667
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:25

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8602 SDG#: DE086-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 10:16	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 10:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201A	03/04/2011 04:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202A	03/01/2011 02:25	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243202A	02/25/2011 11:24	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201A	03/03/2011 10:55	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-052-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SS-0.0-0.5

LLI Sample # SW 6210668
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:28

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8603 SDG#: DE086-03

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

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

Sample Description: SL-052-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SS-0.0-0.5

LLI Sample # SW 6210668
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:28

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8603 SDG#: DE086-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	9.0	J	6.7	20	1
10138	Chrysene	218-01-9	1.5	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	4.4	U	4.4	4.4	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.3	J	0.89	1.9	1
10401	MCPA	94-74-6	310	U	310	310	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.20		0.083	0.19	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

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

Sample Description: SL-052-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SS-0.0-0.5

LLI Sample # SW 6210668
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:28

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8603 SDG#: DE086-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	2.8	U	2.8	3.8	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38	1
01363	p,p-DDE	72-55-9	0.095	J	0.073	0.38	1
01363	p,p-DDT	50-29-3	0.29	J	0.073	0.38	1
01363	Delta BHC	319-86-8	0.11	J	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.12	J	0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported for technical chlordane represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	3.0	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	1.2	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	1.3	J	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		5.53	22.0	1
07914	Boron	7440-42-8	2.23	J	0.978	5.49	1
01650	Calcium	7440-70-2	2,390		6.74	22.0	1
01654	Iron	7439-89-6	21,000		5.18	22.0	1
01656	Lithium	7439-93-2	21.2		0.24	2.2	1
01657	Magnesium	7439-95-4	4,090		2.79	11.0	1
06958	Manganese	7439-96-5	356		0.0857	0.549	1

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

Sample Description: **SL-052-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SS-0.0-0.5

LLI Sample # SW 6210668
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:28

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8603 SDG#: DE086-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	401		0.615	11.0	1
01662	Potassium	7440-09-7	3,910		19.8	54.9	1
01667	Sodium	7440-23-5	93.4	J	41.0	110	1
07968	Strontium	7440-24-6	22.7		0.0681	0.549	1
06969	Tin	7440-31-5	2.60	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,060		0.418	1.10	1
10146	Zirconium	7440-67-7	3.46	J	0.923	5.49	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0659	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.25		0.0879	0.440	2
06126	Barium	7440-39-3	172		0.119	0.440	2
06127	Beryllium	7440-41-7	0.837		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.363		0.0435	0.109	2
06131	Chromium	7440-47-3	28.4		0.132	0.440	2
06132	Cobalt	7440-48-4	8.54		0.0220	0.110	2
06133	Copper	7440-50-8	15.6		0.0725	0.440	2
06135	Lead	7439-92-1	15.7		0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.897		0.0549	0.110	2
06139	Nickel	7440-02-0	19.8		0.110	0.440	2
06141	Selenium	7782-49-2	0.157	J	0.0440	0.440	2
06142	Silver	7440-22-4	0.0631	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.393		0.0330	0.110	2
06148	Vanadium	7440-62-2	49.1		0.0242	0.110	2
06149	Zinc	7440-66-6	60.7		0.615	3.30	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.71	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	498		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

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

Sample Description: **SL-052-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SS-0.0-0.5

LLI Sample # SW 6210668
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:28

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8603 SDG#: DE086-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.74	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/02/2011 01:20	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	03/01/2011 12:24	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110550012A	02/26/2011 02:28	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 06:27	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 09:44	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110550012A	02/25/2011 03:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 10:20	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 10:20	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 10:20	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 10:20	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110535708002	03/01/2011 16:41	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 10:20	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 10:20	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 10:20	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 10:20	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 10:20	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 10:20	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 10:20	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 10:20	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 10:20	Joanne M Gates	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SS-0.0-0.5

LLI Sample # SW 6210668
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:28

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8603 SDG#: DE086-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 10:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201A	03/04/2011 05:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202A	03/01/2011 03:13	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243202A	02/25/2011 11:30	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201A	03/03/2011 10:55	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-053-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SS-0.0-0.5

LLI Sample # SW 6210669
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 13:20

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8604 SDG#: DE086-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1

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

Sample Description: SL-053-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SS-0.0-0.5

LLI Sample # SW 6210669
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 13:20

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8604 SDG#: DE086-04

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

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.87	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.9		0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	3.7		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.7		0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	11	J	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	8.3	J	6.6	20	1
10138	Chrysene	218-01-9	3.4		0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	J	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	4.5		0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.3		0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	1.2	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	8.0	J	6.6	20	1
10138	Phenanthrene	85-01-8	2.5		0.73	1.8	1
10138	Pyrene	129-00-0	3.8		0.73	1.8	1

The following compounds were detected in the method blank at the respective concentrations of:
naphthalene 1.1 ug/kg
di-n-butylphthalate 6.1 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9	1
10401	2,4-DB	94-82-6	9.0	U	9.0	9.0	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1

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

Sample Description: **SL-053-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SS-0.0-0.5

LLI Sample # SW 6210669
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 13:20

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8604 SDG#: DE086-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-DP (Dichlorprop)	120-36-5	2.4		0.88	1.9	1
10401	MCPA	94-74-6	240	U	240	270	1
10401	MCPP (Mecoprop)	93-65-2	350	U	350	350	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.33		0.082	0.19	1

Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7	1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.13	J	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.30	J	0.072	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.077	J	0.072	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1

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

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1

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

Sample Description: SL-053-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SS-0.0-0.5

LLI Sample # SW 6210669
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 13:20

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8604 SDG#: DE086-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.35	21.3	1
07914	Boron	7440-42-8	2.18	J	0.946	5.32	1
01650	Calcium	7440-70-2	2,130		6.52	21.3	1
01654	Iron	7439-89-6	20,900		5.01	21.3	1
01656	Lithium	7439-93-2	21.6		0.23	2.1	1
01657	Magnesium	7439-95-4	4,210		2.70	10.6	1
06958	Manganese	7439-96-5	354		0.0829	0.532	1
10145	Phosphorus	7723-14-0	461		0.595	10.6	1
01662	Potassium	7440-09-7	3,910		19.1	53.2	1
01667	Sodium	7440-23-5	83.1	J	39.7	106	1
07968	Strontium	7440-24-6	18.4		0.0659	0.532	1
06969	Tin	7440-31-5	2.67	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,010		0.404	1.06	1
10146	Zirconium	7440-67-7	3.27	J	0.893	5.32	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.160	J	0.0632	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.44		0.0843	0.421	2
06126	Barium	7440-39-3	130		0.114	0.421	2
06127	Beryllium	7440-41-7	0.667		0.0169	0.105	2
06128	Cadmium	7440-43-9	0.321		0.0434	0.108	2
06131	Chromium	7440-47-3	23.8		0.126	0.421	2
06132	Cobalt	7440-48-4	7.02		0.0211	0.105	2
06133	Copper	7440-50-8	13.3		0.0695	0.421	2
06135	Lead	7439-92-1	14.3		0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.739		0.0527	0.105	2
06139	Nickel	7440-02-0	17.4		0.105	0.421	2
06141	Selenium	7782-49-2	0.163	J	0.0421	0.421	2
06142	Silver	7440-22-4	0.0660	J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.311		0.0316	0.105	2
06148	Vanadium	7440-62-2	42.4		0.0232	0.105	2
06149	Zinc	7440-66-6	63.1		0.590	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1

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

Sample Description: **SL-053-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SS-0.0-0.5

LLI Sample # SW 6210669
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 13:20

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8604 SDG#: DE086-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	498		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.30		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.7		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/02/2011 03:01	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	03/01/2011 12:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110550012A	02/26/2011 02:55	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 06:41	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 10:03	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110550012A	02/25/2011 03:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 10:23	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 10:23	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 10:23	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 10:23	Joanne M Gates	1

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

Sample Description: **SL-053-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SS-0.0-0.5

LLI Sample # SW 6210669
LLI Group # 1233933
Account # 13013

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Collected: 02/18/2011 13:20

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

E8604 SDG#: DE086-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110535708002	03/01/2011 16:45	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 10:23	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 10:23	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 10:23	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 10:23	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 10:23	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 10:23	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 10:23	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 10:23	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 10:23	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 10:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201A	03/04/2011 05:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202A	03/01/2011 03:37	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243202A	02/25/2011 11:43	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201A	03/03/2011 10:55	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-096-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA5A-SS-0.0-0.5

LLI Sample # SW 6210670
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 12:56

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8605 SDG#: DE086-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzo(a)anthracene	56-55-3	140	J	19	190	1
04688	Benzo(a)pyrene	50-32-8	85	J	19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	66	J	19	190	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	37	J	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenz(a,h)anthracene	53-70-3	22	J	19	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	52	J	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

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

Sample Description: SL-096-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA5A-SS-0.0-0.5

LLI Sample # SW 6210670
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 12:56

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8605 SDG#: DE086-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.8	5
10138	Acenaphthylene	208-96-8	8.3	J	2.0	9.8	5
10138	Anthracene	120-12-7	87		2.0	9.8	5
10138	Benzo(b)fluoranthene	205-99-2	330		3.9	9.8	5
10138	Benzo(k)fluoranthene	207-08-9	110		3.9	9.8	5
10138	Butylbenzylphthalate	85-68-7	51	J	35	110	5
10138	Di-n-butylphthalate	84-74-2	38	J	35	110	5
10138	Chrysene	218-01-9	530		2.0	9.8	5
10138	Diethylphthalate	84-66-2	35	U	35	110	5
10138	Dimethylphthalate	131-11-3	35	U	35	110	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	130		35	110	5
10138	Fluoranthene	206-44-0	780		3.9	9.8	5
10138	Fluorene	86-73-7	3.9	U	3.9	9.8	5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.8	5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.8	5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.8	5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.8	5
10138	Di-n-octylphthalate	117-84-0	42	J	35	110	5
10138	Phenanthrene	85-01-8	120		3.9	9.8	5
10138	Pyrene	129-00-0	540		3.9	9.8	5

Reporting limits were raised due to interference from the sample matrix.

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.1 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	0.73	U	0.73	2.0	1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4	1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0	1
10401	MCPA	94-74-6	660		89	290	1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290	1
10401	2,4,5-T	93-76-5	0.34	U	0.34	0.34	1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20	1

When the concentration detected on the primary and confirmation

Sample Description: **SL-096-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5A-SS-0.0-0.5

LLI Sample # SW 6210670
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 12:56

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8605 SDG#: DE086-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-T.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19	1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.083	U	0.083	0.19	1
01363	Chlordane	57-74-9	3.4	U	3.4	4.0	1
01363	p,p-DDD	72-54-8	0.77		0.077	0.40	1
01363	p,p-DDE	72-55-9	0.22	U	0.22	0.40	1
01363	p,p-DDT	50-29-3	2.9		0.077	0.40	1
01363	Delta BHC	319-86-8	0.050	U	0.050	0.19	1
01363	Dieldrin	60-57-1	0.58		0.077	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.19	1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40	1
01363	Endrin	72-20-8	0.077	U	0.077	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.20	J	0.077	0.40	1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40	1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.073	U	0.073	0.19	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9	1
01363	Mirex	2385-85-5	0.49	U	0.49	0.49	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	8.3		1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	4.2		0.39	2.0	1
10225	PCB-1260	11096-82-5	3.6		0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.73	22.8	1

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

Sample Description: **SL-096-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5A-SS-0.0-0.5

LLI Sample # SW 6210670
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 12:56

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8605 SDG#: DE086-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	2.82	J	1.01	5.69	1
01650	Calcium	7440-70-2	3,610		6.98	22.8	1
01654	Iron	7439-89-6	21,300		5.36	22.8	1
01656	Lithium	7439-93-2	21.1		0.25	2.3	1
01657	Magnesium	7439-95-4	4,700		2.89	11.4	1
06958	Manganese	7439-96-5	309		0.0888	0.569	1
10145	Phosphorus	7723-14-0	531		0.637	11.4	1
01662	Potassium	7440-09-7	3,490		20.5	56.9	1
01667	Sodium	7440-23-5	91.3	J	42.5	114	1
07968	Strontium	7440-24-6	18.0		0.0706	0.569	1
06969	Tin	7440-31-5	2.72	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,080		0.433	1.14	1
10146	Zirconium	7440-67-7	3.10	J	0.956	5.69	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.218	J	0.0676	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.11		0.0902	0.451	2
06126	Barium	7440-39-3	139		0.122	0.451	2
06127	Beryllium	7440-41-7	0.671		0.0180	0.113	2
06128	Cadmium	7440-43-9	0.954		0.0464	0.116	2
06131	Chromium	7440-47-3	28.9		0.135	0.451	2
06132	Cobalt	7440-48-4	10.2		0.0225	0.113	2
06133	Copper	7440-50-8	22.2		0.0744	0.451	2
06135	Lead	7439-92-1	84.0		0.0117	0.225	2
06138	Molybdenum	7439-98-7	0.915		0.0564	0.113	2
06139	Nickel	7440-02-0	19.5		0.113	0.451	2
06141	Selenium	7782-49-2	0.157	J	0.0451	0.451	2
06142	Silver	7440-22-4	0.0918	J	0.0135	0.113	2
06145	Thallium	7440-28-0	0.357		0.0338	0.113	2
06148	Vanadium	7440-62-2	51.5		0.0248	0.113	2
06149	Zinc	7440-66-6	259		1.58	8.45	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.172		0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.99	J	0.94	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.99	J	0.23	1.2	1

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

Sample Description: **SL-096-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5A-SS-0.0-0.5

LLI Sample # SW 6210670
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 12:56

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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E8605 SDG#: DE086-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	480	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.39	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/02/2011 03:26	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	03/01/2011 13:27	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110550012A	02/26/2011 03:23	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 06:56	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 10:22	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110550012A	02/25/2011 03:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 10:27	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 10:27	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 10:27	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 10:27	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110535708002	03/01/2011 16:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 10:27	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 10:27	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 10:27	Joanne M Gates	1

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

Sample Description: **SL-096-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5A-SS-0.0-0.5

LLI Sample # SW 6210670
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 12:56

Submitted: 02/19/2011 09:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8605 SDG#: DE086-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 10:27	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 10:27	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 10:27	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 10:27	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 10:27	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 10:27	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	110661026001A	03/08/2011 10:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/07/2011 07:25	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 10:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201A	03/04/2011 05:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202A	03/01/2011 04:01	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243202A	02/25/2011 12:02	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201A	03/03/2011 10:55	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-098-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5A-SS-0.0-0.5

LLI Sample # SW 6210671
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:05

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8606 SDG#: DE086-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	150	J	19	380	1
04688	Fluoranthene	206-44-0	20	J	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

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

Sample Description: SL-098-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5A-SS-0.0-0.5

LLI Sample # SW 6210671
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:05

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8606 SDG#: DE086-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.4	5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.4	5
10138	Anthracene	120-12-7	1.9	U	1.9	9.4	5
10138	Benzo(a)anthracene	56-55-3	3.8	U	3.8	9.4	5
10138	Benzo(a)pyrene	50-32-8	3.8	U	3.8	9.4	5
10138	Benzo(b)fluoranthene	205-99-2	12		3.8	9.4	5
10138	Benzo(g,h,i)perylene	191-24-2	4.0	J	3.8	9.4	5
10138	Benzo(k)fluoranthene	207-08-9	4.6	J	3.8	9.4	5
10138	Butylbenzylphthalate	85-68-7	57	J	34	100	5
10138	Di-n-butylphthalate	84-74-2	39	J	34	100	5
10138	Chrysene	218-01-9	11		1.9	9.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.4	5
10138	Diethylphthalate	84-66-2	34	U	34	100	5
10138	Dimethylphthalate	131-11-3	34	U	34	100	5
10138	Fluorene	86-73-7	3.8	U	3.8	9.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.4	5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.4	5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.4	5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.4	5
10138	Di-n-octylphthalate	117-84-0	34	U	34	100	5
10138	Phenanthrene	85-01-8	7.5	J	3.8	9.4	5
10138	Pyrene	129-00-0	12		3.8	9.4	5

Reporting limits were raised due to interference from the sample matrix.

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.1 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	7.9	U	7.9	7.9	1
10401	Dicamba	1918-00-9	0.52	J	0.45	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	2.3		0.91	1.9	1
10401	MCPA	94-74-6	440		86	280	1
10401	MCPP (Mecoprop)	93-65-2	560		85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1

When the concentration detected on the primary and confirmation

Sample Description: **SL-098-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5A-SS-0.0-0.5

LLI Sample # SW 6210671
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:05

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8606 SDG#: DE086-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	4.3	U	4.3	4.3	1
01363	p,p-DDD	72-54-8	1.3		0.075	0.38	1
01363	p,p-DDE	72-55-9	0.27	U	0.27	0.38	1
01363	p,p-DDT	50-29-3	2.7		0.075	0.38	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.50	U	0.50	0.50	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.28	J	0.075	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.38	1
01363	Endrin	72-20-8	0.075	U	0.075	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.32	U	0.32	0.38	1
01363	Endrin Ketone	53494-70-5	0.097	U	0.097	0.38	1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.31	U	0.31	0.31	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.76		0.075	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected. Due to interfering peaks on the chromatogram, the values reported for dieldrin and technical chlordane represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	9.3		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	7.9		0.37	1.9	1
10225	PCB-1260	11096-82-5	9.1		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to						

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

Sample Description: **SL-098-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5A-SS-0.0-0.5

LLI Sample # SW 6210671
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:05

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8606 SDG#: DE086-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		5.58	22.2	1
07914	Boron	7440-42-8	2.31	J	0.988	5.55	1
01650	Calcium	7440-70-2	2,310		6.81	22.2	1
01654	Iron	7439-89-6	18,600		5.23	22.2	1
01656	Lithium	7439-93-2	19.0		0.24	2.2	1
01657	Magnesium	7439-95-4	3,830		2.82	11.1	1
06958	Manganese	7439-96-5	298		0.0866	0.555	1
10145	Phosphorus	7723-14-0	402		0.622	11.1	1
01662	Potassium	7440-09-7	3,370		20.0	55.5	1
01667	Sodium	7440-23-5	85.6	J	41.4	111	1
07968	Strontium	7440-24-6	17.7		0.0688	0.555	1
06969	Tin	7440-31-5	2.98	J	1.11	11.1	1
06970	Titanium	7440-32-6	997		0.422	1.11	1
10146	Zirconium	7440-67-7	2.84	J	0.933	5.55	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.773		0.0666	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.62		0.0888	0.444	2
06126	Barium	7440-39-3	136		0.120	0.444	2
06127	Beryllium	7440-41-7	0.649		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.903		0.0440	0.110	2
06131	Chromium	7440-47-3	27.3		0.133	0.444	2
06132	Cobalt	7440-48-4	7.75		0.0222	0.111	2
06133	Copper	7440-50-8	15.5		0.0733	0.444	2
06135	Lead	7439-92-1	29.4		0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.830		0.0555	0.111	2
06139	Nickel	7440-02-0	18.5		0.111	0.444	2
06141	Selenium	7782-49-2	0.135	J	0.0444	0.444	2
06142	Silver	7440-22-4	0.251		0.0133	0.111	2
06145	Thallium	7440-28-0	0.397		0.0333	0.111	2
06148	Vanadium	7440-62-2	44.7		0.0244	0.111	2
06149	Zinc	7440-66-6	78.1		0.622	3.33	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0157	J	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	

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

Sample Description: **SL-098-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5A-SS-0.0-0.5

LLI Sample # SW 6210671
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:05

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8606 SDG#: DE086-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	495		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.65		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.7		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/02/2011 07:12	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	03/01/2011 13:59	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110550012A	02/26/2011 03:51	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 07:25	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 10:40	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110550012A	02/25/2011 03:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 10:30	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 10:30	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 10:30	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 10:30	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110535708002	03/01/2011 16:53	John P Hook	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-098-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5A-SS-0.0-0.5

LLI Sample # SW 6210671
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:05

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8606 SDG#: DE086-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 10:30	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 10:30	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 10:30	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 10:30	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 10:30	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 10:30	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 10:30	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 10:30	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 10:30	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 10:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201A	03/04/2011 05:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202A	03/01/2011 04:25	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243202A	02/25/2011 12:14	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201A	03/03/2011 10:55	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-099-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210672
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07BKG

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

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

Sample Description: SL-099-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210672
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	36	U	36	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	36	U	36	180	1
04688	2,4,5-Trichlorophenol	95-95-4	73	U	73	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.92	J	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.92	J	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	1.0	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	350		6.6	20	1
10138	Fluoranthene	206-44-0	0.74	J	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	J	0.74	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9	1
10401	2,4-DB	94-82-6	4.0	U	4.0	4.0	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	550		84	280	1
10401	MCPP (Mecoprop)	93-65-2	280	U	280	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.57	U	0.57	0.57	1

Due to interfering peaks on the chromatogram, the values reported for MCPP and 2,4,5-TP represent the lowest reporting limits attainable.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

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

Sample Description: SL-099-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210672
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	2.2	U	2.2	3.7	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37	1
01363	p,p-DDE	72-55-9	0.081	J	0.073	0.37	1
01363	p,p-DDT	50-29-3	0.31	J	0.073	0.37	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37	1
01363	Endrin	72-20-8	0.073	U	0.073	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.042	U	0.042	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported for heptachlor epoxide and technical chlordane represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	2.0	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.75	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.93	J	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,300		5.44	21.6	1
07914	Boron	7440-42-8	2.57	J	0.963	5.41	1
01650	Calcium	7440-70-2	2,300		6.63	21.6	1

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

Sample Description: **SL-099-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210672
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	20,200		5.10	21.6	1
01656	Lithium	7439-93-2	21.8		0.24	2.2	1
01657	Magnesium	7439-95-4	3,870		2.75	10.8	1
06958	Manganese	7439-96-5	298		0.0844	0.541	1
10145	Phosphorus	7723-14-0	333		0.606	10.8	1
01662	Potassium	7440-09-7	3,150		19.5	54.1	1
01667	Sodium	7440-23-5	77.2	J	40.4	108	1
07968	Strontium	7440-24-6	18.8		0.0671	0.541	1
06969	Tin	7440-31-5	2.62	J	1.08	10.8	1
06970	Titanium	7440-32-6	988		0.411	1.08	1
10146	Zirconium	7440-67-7	3.42	J	0.909	5.41	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.124	J	0.0637	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.17		0.0849	0.425	2
06126	Barium	7440-39-3	126		0.115	0.425	2
06127	Beryllium	7440-41-7	0.774		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.189		0.0442	0.110	2
06131	Chromium	7440-47-3	23.1		0.127	0.425	2
06132	Cobalt	7440-48-4	17.4		0.0212	0.106	2
06133	Copper	7440-50-8	10.2		0.0700	0.425	2
06135	Lead	7439-92-1	12.9		0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.782		0.0531	0.106	2
06139	Nickel	7440-02-0	16.7		0.106	0.425	2
06141	Selenium	7782-49-2	0.159	J	0.0425	0.425	2
06142	Silver	7440-22-4	0.0663	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.334		0.0318	0.106	2
06148	Vanadium	7440-62-2	42.5		0.0233	0.106	2
06149	Zinc	7440-66-6	54.7		0.594	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	503		10.0	10.0	1

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

Sample Description: **SL-099-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210672
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.93	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/04/2011 20:25	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	02/28/2011 01:53	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110550012A	02/25/2011 23:42	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110540019A	03/02/2011 15:11	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 07:54	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 10:59	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110550012A	02/25/2011 03:10	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110540019A	02/24/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 09:45	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 09:45	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 09:45	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 09:45	Joanne M Gates	1

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

Sample Description: **SL-099-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210672
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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

E8607 SDG#: DE086-07BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110535708002	03/01/2011 16:18	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 09:45	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 09:45	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 09:45	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 09:45	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 09:45	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 09:45	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 09:45	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 09:45	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 09:45	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 11:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201A	03/04/2011 03:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202A	03/01/2011 00:49	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243202A	02/25/2011 12:20	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201A	03/03/2011 10:55	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-099-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210673
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180	1
04688	Acenaphthylene	208-96-8	1,800		18	180	1
04688	Aniline	62-53-3	1,200		180	550	1
04688	Anthracene	120-12-7	1,800		18	180	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,600		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,500		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,800		18	180	1
04688	Benzoic acid	65-85-0	1,300		180	550	1
04688	Benzyl alcohol	100-51-6	1,800		180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,800		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180	1
04688	Carbazole	86-74-8	1,700		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		37	180	1
04688	4-Chloroaniline	106-47-8	1,100		74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180	1
04688	2-Chlorophenol	95-57-8	1,800		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	180	1
04688	Chrysene	218-01-9	1,800		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		18	180	1
04688	Dibenzofuran	132-64-9	1,800		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,700		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300		110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180	1
04688	Diethylphthalate	84-66-2	1,800		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,700		37	180	1
04688	3,5-Dimethylphenol	108-68-9	1,800		37	180	1
04688	Dimethylphthalate	131-11-3	1,800		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400		180	550	1
04688	2,4-Dinitrophenol	51-28-5	2,300		370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,800		37	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		18	370	1
04688	Fluoranthene	206-44-0	1,700		18	180	1
04688	Fluorene	86-73-7	1,700		18	180	1
04688	Hexachlorobenzene	118-74-1	1,800		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,700		74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,700		180	550	1
04688	Hexachloroethane	67-72-1	1,500		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180	1
04688	Isophorone	78-59-1	1,600		18	180	1

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

Sample Description: SL-099-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210673
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180	1
04688	2-Methylphenol	95-48-7	1,700	37	180	1
04688	4-Methylphenol	106-44-5	1,700	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	18	180	1
04688	2-Nitroaniline	88-74-4	1,800	18	180	1
04688	3-Nitroaniline	99-09-2	1,700	37	180	1
04688	4-Nitroaniline	100-01-6	1,400	74	180	1
04688	Nitrobenzene	98-95-3	1,600	18	180	1
04688	2-Nitrophenol	88-75-5	1,700	18	180	1
04688	4-Nitrophenol	100-02-7	1,400	180	550	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	37	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,700	18	180	1
04688	Pentachlorophenol	87-86-5	1,900	180	550	1
04688	Phenanthrene	85-01-8	1,700	18	180	1
04688	Phenol	108-95-2	1,700	18	180	1
04688	Pyrene	129-00-0	1,800	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	37	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.74	1.8	1
10138	Acenaphthylene	208-96-8	37	0.37	1.8	1
10138	Anthracene	120-12-7	38	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	40	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	39	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	40	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	34	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	39	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	46	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	42	6.6	20	1
10138	Chrysene	218-01-9	41	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	37	0.74	1.8	1
10138	Diethylphthalate	84-66-2	40	6.6	20	1
10138	Dimethylphthalate	131-11-3	39	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	56	6.6	20	1
10138	Fluoranthene	206-44-0	39	0.74	1.8	1
10138	Fluorene	86-73-7	36	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	36	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	35	0.74	1.8	1

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

Sample Description: SL-099-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210673
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	31		0.74	1.8	1
10138	Naphthalene	91-20-3	34		0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	32		0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	43		6.6	20	1
10138	Phenanthrene	85-01-8	36		0.74	1.8	1
10138	Pyrene	129-00-0	39		0.74	1.8	1
	The following compounds were detected in the method blank at the respective concentrations of: naphthalene 1.1 ug/kg di-n-butylphthalate 6.1 ug/kg These blank values were not subtracted from the analytical results.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.6		1.3	4.0	1
10401	Dalapon	75-99-0	6.4	J	4.9	9.9	1
10401	2,4-DB	94-82-6	8.5		0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	J	0.44	1.3	1
10401	Dinoseb	88-85-7	2.1	J	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	8.8		0.88	1.9	1
10401	MCPA	94-74-6	1,100		84	280	1
10401	MCPP (Mecoprop)	93-65-2	780		83	280	1
10401	2,4,5-T	93-76-5	0.29		0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.57		0.083	0.19	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	110		2.3	5.5	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.29		0.073	0.19	1
01363	Alpha BHC	319-84-6	0.30		0.038	0.19	1
01363	Beta BHC	319-85-7	0.25		0.066	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.23		0.038	0.19	1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7	1
01363	p,p-DDD	72-54-8	0.46		0.073	0.38	1
01363	p,p-DDE	72-55-9	0.81		0.073	0.38	1
01363	p,p-DDT	50-29-3	0.60		0.073	0.38	1
01363	Delta BHC	319-86-8	0.29		0.040	0.19	1
01363	Dieldrin	60-57-1	0.39		0.073	0.38	1
01363	Endosulfan I	959-98-8	0.17	J	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.46		0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.53		0.073	0.38	1
01363	Endrin	72-20-8	0.38		0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.46		0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.54		0.073	0.38	1
01363	Heptachlor	76-44-8	0.22		0.066	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.28		0.038	0.19	1
01363	Methoxychlor	72-43-5	2.4		0.38	1.8	1
01363	Mirex	2385-85-5	0.14	J	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

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

Sample Description: **SL-099-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210673
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.5	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	17		0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	17		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,900		5.44	21.6	1
07914	Boron	7440-42-8	215		0.963	5.41	1
01650	Calcium	7440-70-2	3,040		6.63	21.6	1
01654	Iron	7439-89-6	22,300		5.10	21.6	1
01656	Lithium	7439-93-2	133		0.24	2.2	1
01657	Magnesium	7439-95-4	4,310		2.75	10.8	1
06958	Manganese	7439-96-5	397		0.0844	0.541	1
10145	Phosphorus	7723-14-0	453		0.606	10.8	1
01662	Potassium	7440-09-7	4,540		19.5	54.1	1
01667	Sodium	7440-23-5	1,150		40.4	108	1
07968	Strontium	7440-24-6	127		0.0671	0.541	1
06969	Tin	7440-31-5	384		1.08	10.8	1
06970	Titanium	7440-32-6	1,300		0.411	1.08	1
10146	Zirconium	7440-67-7	105		0.909	5.41	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.729		0.0662	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.51		0.0883	0.442	2
06126	Barium	7440-39-3	145		0.119	0.442	2
06127	Beryllium	7440-41-7	1.88		0.0177	0.110	2
06128	Cadmium	7440-43-9	1.31		0.0437	0.109	2
06131	Chromium	7440-47-3	39.9		0.132	0.442	2
06132	Cobalt	7440-48-4	73.3		0.0221	0.110	2
06133	Copper	7440-50-8	24.5		0.0728	0.442	2
06135	Lead	7439-92-1	16.8		0.0115	0.221	2
06138	Molybdenum	7439-98-7	15.5		0.0552	0.110	2
06139	Nickel	7440-02-0	31.8		0.110	0.442	2
06141	Selenium	7782-49-2	2.82		0.0442	0.442	2
06142	Silver	7440-22-4	14.9		0.0132	0.110	2

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

Sample Description: **SL-099-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210673
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.889	0.0331	0.110	2
06148	Vanadium	7440-62-2	62.4	0.0243	0.110	2
06149	Zinc	7440-66-6	64.9	0.618	3.31	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.187	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.9	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	526	9.9	33.1	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	36.3	1.1	5.5	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/02/2011 02:11	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	02/28/2011 02:29	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110550012A	02/26/2011 00:09	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110540019A	03/02/2011 15:17	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 08:08	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 11:17	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1

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

Sample Description: SL-099-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210673
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

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

E8607 SDG#: DE086-07MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110550012A	02/25/2011 03:10	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110540019A	02/24/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 09:55	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 11:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201A	03/04/2011 04:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202A	03/01/2011 01:37	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243202A	02/25/2011 12:51	Carrie E Miller	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201A	03/03/2011 10:55	Carrie E Miller	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-099-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210673
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202A	02/25/2011 14:55	Carrie E Miller	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-099-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210674
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180	1
04688	Acenaphthylene	208-96-8	1,800		18	180	1
04688	Aniline	62-53-3	1,100		180	550	1
04688	Anthracene	120-12-7	1,700		18	180	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,600		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,600		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,500		18	180	1
04688	Benzoic acid	65-85-0	1,400		180	550	1
04688	Benzyl alcohol	100-51-6	1,800		180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,800		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180	1
04688	Carbazole	86-74-8	1,700		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		37	180	1
04688	4-Chloroaniline	106-47-8	990		74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180	1
04688	2-Chlorophenol	95-57-8	1,800		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	180	1
04688	Chrysene	218-01-9	1,800		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		18	180	1
04688	Dibenzofuran	132-64-9	1,800		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,800		18	180	1
04688	Diethylphthalate	84-66-2	1,800		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,700		37	180	1
04688	3,5-Dimethylphenol	108-68-9	1,800		37	180	1
04688	Dimethylphthalate	131-11-3	1,800		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400		180	550	1
04688	2,4-Dinitrophenol	51-28-5	2,300		370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,800		37	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		18	370	1
04688	Fluoranthene	206-44-0	1,700		18	180	1
04688	Fluorene	86-73-7	1,700		18	180	1
04688	Hexachlorobenzene	118-74-1	1,800		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,700		74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,600		180	550	1
04688	Hexachloroethane	67-72-1	1,500		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180	1
04688	Isophorone	78-59-1	1,600		18	180	1

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

Sample Description: SL-099-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210674
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180	1
04688	2-Methylphenol	95-48-7	1,700	37	180	1
04688	4-Methylphenol	106-44-5	1,700	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	18	180	1
04688	2-Nitroaniline	88-74-4	1,800	18	180	1
04688	3-Nitroaniline	99-09-2	1,700	37	180	1
04688	4-Nitroaniline	100-01-6	1,400	74	180	1
04688	Nitrobenzene	98-95-3	1,600	18	180	1
04688	2-Nitrophenol	88-75-5	1,700	18	180	1
04688	4-Nitrophenol	100-02-7	1,400	180	550	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	37	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,600	18	180	1
04688	Pentachlorophenol	87-86-5	1,900	180	550	1
04688	Phenanthrene	85-01-8	1,700	18	180	1
04688	Phenol	108-95-2	1,700	18	180	1
04688	Pyrene	129-00-0	1,800	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	37	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	0.74	1.8	1
10138	Acenaphthylene	208-96-8	37	0.37	1.8	1
10138	Anthracene	120-12-7	37	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	41	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	39	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	42	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	31	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	38	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	48	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	43	6.6	20	1
10138	Chrysene	218-01-9	41	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	33	0.74	1.8	1
10138	Diethylphthalate	84-66-2	40	6.6	20	1
10138	Dimethylphthalate	131-11-3	39	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	61	6.6	20	1
10138	Fluoranthene	206-44-0	40	0.74	1.8	1
10138	Fluorene	86-73-7	36	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	33	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	35	0.74	1.8	1

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

Sample Description: SL-099-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210674
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	32		0.74	1.8	1
10138	Naphthalene	91-20-3	34		0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	33		0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	45		6.6	20	1
10138	Phenanthrene	85-01-8	37		0.74	1.8	1
10138	Pyrene	129-00-0	40		0.74	1.8	1
	The following compounds were detected in the method blank at the respective concentrations of: naphthalene 1.1 ug/kg di-n-butylphthalate 6.1 ug/kg These blank values were not subtracted from the analytical results.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.7		1.3	4.0	1
10401	Dalapon	75-99-0	15		4.9	9.9	1
10401	2,4-DB	94-82-6	14		0.68	1.9	1
10401	Dicamba	1918-00-9	0.52	J	0.44	1.3	1
10401	Dinoseb	88-85-7	4.1		0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	11		0.88	1.9	1
10401	MCPA	94-74-6	1,200		84	280	1
10401	MCPP (Mecoprop)	93-65-2	780		83	280	1
10401	2,4,5-T	93-76-5	0.23		0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.73		0.083	0.19	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	120		2.3	5.5	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.42		0.073	0.19	1
01363	Alpha BHC	319-84-6	0.30		0.038	0.19	1
01363	Beta BHC	319-85-7	0.38		0.066	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.33		0.038	0.19	1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7	1
01363	p,p-DDD	72-54-8	0.81		0.073	0.38	1
01363	p,p-DDE	72-55-9	1.3		0.073	0.38	1
01363	p,p-DDT	50-29-3	1.0		0.073	0.38	1
01363	Delta BHC	319-86-8	0.42		0.040	0.19	1
01363	Dieldrin	60-57-1	0.62		0.073	0.38	1
01363	Endosulfan I	959-98-8	0.24		0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.75		0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.81		0.073	0.38	1
01363	Endrin	72-20-8	0.62		0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.56		0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.75		0.073	0.38	1
01363	Heptachlor	76-44-8	0.33		0.066	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.43		0.038	0.19	1
01363	Methoxychlor	72-43-5	3.5		0.38	1.8	1
01363	Mirex	2385-85-5	0.17	J	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

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

Sample Description: **SL-099-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210674
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	2.3	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	17		0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	17		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,600		5.44	21.6	1
07914	Boron	7440-42-8	219		0.963	5.41	1
01650	Calcium	7440-70-2	3,070		6.63	21.6	1
01654	Iron	7439-89-6	21,400		5.10	21.6	1
01656	Lithium	7439-93-2	134		0.24	2.2	1
01657	Magnesium	7439-95-4	4,330		2.75	10.8	1
06958	Manganese	7439-96-5	395		0.0844	0.541	1
10145	Phosphorus	7723-14-0	456		0.606	10.8	1
01662	Potassium	7440-09-7	4,530		19.5	54.1	1
01667	Sodium	7440-23-5	1,170		40.4	108	1
07968	Strontium	7440-24-6	128		0.0671	0.541	1
06969	Tin	7440-31-5	388		1.08	10.8	1
06970	Titanium	7440-32-6	1,290		0.411	1.08	1
10146	Zirconium	7440-67-7	106		0.909	5.41	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.757		0.0662	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.92		0.0883	0.442	2
06126	Barium	7440-39-3	139		0.119	0.442	2
06127	Beryllium	7440-41-7	1.79		0.0177	0.110	2
06128	Cadmium	7440-43-9	1.25		0.0433	0.108	2
06131	Chromium	7440-47-3	37.9		0.132	0.442	2
06132	Cobalt	7440-48-4	69.4		0.0221	0.110	2
06133	Copper	7440-50-8	23.2		0.0728	0.442	2
06135	Lead	7439-92-1	16.3		0.0115	0.221	2
06138	Molybdenum	7439-98-7	14.7		0.0552	0.110	2
06139	Nickel	7440-02-0	31.1		0.110	0.442	2
06141	Selenium	7782-49-2	2.80		0.0442	0.442	2
06142	Silver	7440-22-4	14.2		0.0132	0.110	2

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

Sample Description: **SL-099-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210674
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	
06145	Thallium	7440-28-0	0.886	0.0331	0.110	2
06148	Vanadium	7440-62-2	58.3	0.0243	0.110	2
06149	Zinc	7440-66-6	66.5	0.618	3.31	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.177	0.0031	0.107	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/02/2011 02:36	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	02/28/2011 03:04	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110550012A	02/26/2011 00:37	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110540019A	03/02/2011 15:24	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 08:23	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 11:36	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110550012A	02/25/2011 03:10	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110540019A	02/24/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1

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

Sample Description: **SL-099-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210674
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 09:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 11:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-099-SA5A-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210675
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,500		5.39	21.4	1
07914	Boron	7440-42-8	2.03	J	0.954	5.36	1
01650	Calcium	7440-70-2	2,380		6.57	21.4	1
01654	Iron	7439-89-6	20,800		5.05	21.4	1
01656	Lithium	7439-93-2	22.9		0.24	2.1	1
01657	Magnesium	7439-95-4	3,950		2.72	10.7	1
06958	Manganese	7439-96-5	332		0.0836	0.536	1
10145	Phosphorus	7723-14-0	377		0.600	10.7	1
01662	Potassium	7440-09-7	3,200		19.3	53.6	1
01667	Sodium	7440-23-5	77.5	J	40.0	107	1
07968	Strontium	7440-24-6	18.8		0.0664	0.536	1
06969	Tin	7440-31-5	2.61	J	1.07	10.7	1
06970	Titanium	7440-32-6	987		0.407	1.07	1
10146	Zirconium	7440-67-7	3.90	J	0.900	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.168	J	0.0649	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.13		0.0866	0.433	2
06126	Barium	7440-39-3	127		0.117	0.433	2
06127	Beryllium	7440-41-7	0.781		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.192		0.0429	0.107	2
06131	Chromium	7440-47-3	23.1		0.130	0.433	2
06132	Cobalt	7440-48-4	7.10		0.0216	0.108	2
06133	Copper	7440-50-8	10.7		0.0714	0.433	2
06135	Lead	7439-92-1	12.3		0.0113	0.216	2
06138	Molybdenum	7439-98-7	0.629		0.0541	0.108	2
06139	Nickel	7440-02-0	16.4		0.108	0.433	2
06141	Selenium	7782-49-2	0.116	J	0.0433	0.433	2
06142	Silver	7440-22-4	0.0787	J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.327		0.0325	0.108	2
06148	Vanadium	7440-62-2	43.9		0.0238	0.108	2
06149	Zinc	7440-66-6	52.2		0.606	3.25	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.22	1.1	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-099-SA5A-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210675
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	504	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.94	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1
11626	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 09:52	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 09:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 09:52	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 09:52	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110535708002	03/01/2011 16:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 09:52	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 09:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 09:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 09:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 09:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 09:52	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 09:52	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 09:52	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 09:52	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:10	Choon Y Tian	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-099-SA5A-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210675
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8607 SDG#: DE086-07DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 11:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201A	03/04/2011 03:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202A	03/01/2011 01:13	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243202A	02/25/2011 13:29	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201A	03/03/2011 10:55	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-100-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5A-SS-0.0-0.5

LLI Sample # SW 6210676
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8608 SDG#: DE086-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	20	U	20	200	1
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

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

Sample Description: SL-100-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5A-SS-0.0-0.5

LLI Sample # SW 6210676
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8608 SDG#: DE086-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	3.3		0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	1.8	J	0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.99	J	0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	12	J	7.1	21	1
10138	Chrysene	218-01-9	3.5		0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J	7.1	21	1
10138	Fluoranthene	206-44-0	3.5		0.79	2.0	1
10138	Fluorene	86-73-7	1.2	J	0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21	1
10138	Phenanthrene	85-01-8	2.5		0.79	2.0	1
10138	Pyrene	129-00-0	4.2		0.79	2.0	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	0.73	U	0.73	2.0	1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4	1
10401	Dinoseb	88-85-7	0.95	U	0.95	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.95	U	0.95	2.0	1
10401	MCPA	94-74-6	370	U	370	370	1
10401	MCPP (Mecoprop)	93-65-2	89	U	89	300	1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20	1
10401	2,4,5-TP	93-72-1	0.089	U	0.089	0.20	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

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

Sample Description: SL-100-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5A-SS-0.0-0.5

LLI Sample # SW 6210676
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8608 SDG#: DE086-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20	1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20	1
01363	Chlordane	57-74-9	2.7	U	2.7	4.0	1
01363	p,p-DDD	72-54-8	0.22	U	0.22	0.40	1
01363	p,p-DDE	72-55-9	0.44		0.078	0.40	1
01363	p,p-DDT	50-29-3	1.1	U	1.1	1.1	1
01363	Delta BHC	319-86-8	0.099	J	0.043	0.20	1
01363	Dieldrin	60-57-1	0.38	U	0.38	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.23	U	0.23	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40	1
01363	Endrin	72-20-8	0.078	U	0.078	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.40	1
01363	Endrin Ketone	53494-70-5	0.087	U	0.087	0.40	1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.077	U	0.077	0.20	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0	1
01363	Mirex	2385-85-5	0.20	U	0.20	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1

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

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	3.8	J	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	13		0.39	2.0	1
10225	PCB-1260	11096-82-5	2.4		0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		5.77	23.0	1
07914	Boron	7440-42-8	2.48	J	1.02	5.74	1
01650	Calcium	7440-70-2	2,490		7.03	23.0	1
01654	Iron	7439-89-6	19,000		5.41	23.0	1

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

Sample Description: **SL-100-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5A-SS-0.0-0.5

LLI Sample # SW 6210676
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8608 SDG#: DE086-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	20.3		0.25	2.3	1
01657	Magnesium	7439-95-4	3,780		2.91	11.5	1
06958	Manganese	7439-96-5	326		0.0895	0.574	1
10145	Phosphorus	7723-14-0	446		0.643	11.5	1
01662	Potassium	7440-09-7	3,660		20.7	57.4	1
01667	Sodium	7440-23-5	84.1	J	42.8	115	1
07968	Strontium	7440-24-6	21.0		0.0712	0.574	1
06969	Tin	7440-31-5	2.67	J	1.15	11.5	1
06970	Titanium	7440-32-6	976		0.436	1.15	1
10146	Zirconium	7440-67-7	2.54	J	0.964	5.74	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0702	0.234	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.23		0.0936	0.468	2
06126	Barium	7440-39-3	126		0.126	0.468	2
06127	Beryllium	7440-41-7	0.602		0.0187	0.117	2
06128	Cadmium	7440-43-9	0.393		0.0459	0.115	2
06131	Chromium	7440-47-3	22.3		0.140	0.468	2
06132	Cobalt	7440-48-4	6.94		0.0234	0.117	2
06133	Copper	7440-50-8	13.9		0.0772	0.468	2
06135	Lead	7439-92-1	11.4		0.0122	0.234	2
06138	Molybdenum	7439-98-7	0.789		0.0585	0.117	2
06139	Nickel	7440-02-0	15.8		0.117	0.468	2
06141	Selenium	7782-49-2	0.157	J	0.0468	0.468	2
06142	Silver	7440-22-4	0.135		0.0140	0.117	2
06145	Thallium	7440-28-0	0.325		0.0351	0.117	2
06148	Vanadium	7440-62-2	39.4		0.0257	0.117	2
06149	Zinc	7440-66-6	56.4		0.655	3.51	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0036	J	0.0033	0.115	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	360		10.0	10.0	1

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

Sample Description: **SL-100-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5A-SS-0.0-0.5

LLI Sample # SW 6210676
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8608 SDG#: DE086-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.44	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/02/2011 07:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	03/01/2011 14:31	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110550012A	02/26/2011 05:14	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 08:37	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 11:54	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110550012A	02/25/2011 03:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 10:34	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 10:34	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 10:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 10:34	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110535708002	03/01/2011 17:05	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 10:34	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 10:34	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 10:34	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 10:34	Joanne M Gates	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-100-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5A-SS-0.0-0.5

LLI Sample # SW 6210676
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8608 SDG#: DE086-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 10:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 10:34	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 10:34	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 10:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 10:34	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 11:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201A	03/04/2011 06:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202A	03/01/2011 04:50	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243202A	02/25/2011 13:35	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201A	03/03/2011 10:55	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182102A	02/21/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039402A	02/21/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402B	03/02/2011 19:23	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-101-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5A-SS-0.0-0.5

LLI Sample # SW 6210677
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:45

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8609 SDG#: DE086-09

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

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

Sample Description: SL-101-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5A-SS-0.0-0.5

LLI Sample # SW 6210677
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:45

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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

E8609 SDG#: DE086-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.94	J	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.80	J	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	10	J	6.6	20	1
10138	Chrysene	218-01-9	2.8		0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.6	20	1
10138	Fluoranthene	206-44-0	4.2		0.74	1.8	1
10138	Fluorene	86-73-7	0.92	J	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.92	J	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	2.0		0.74	1.8	1
10138	Pyrene	129-00-0	3.0		0.74	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	5.4	U	5.4	5.4	1
10401	Dicamba	1918-00-9	0.86	J	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	1,100		84	280	1
10401	MCPP (Mecoprop)	93-65-2	690		83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.43		0.083	0.19	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-101-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5A-SS-0.0-0.5

LLI Sample # SW 6210677
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:45

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8609 SDG#: DE086-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	1.9	U	1.9	3.8	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38	1
01363	p,p-DDE	72-55-9	0.12	U	0.12	0.38	1
01363	p,p-DDT	50-29-3	0.45	U	0.45	0.45	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.12	U	0.12	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.38	1
01363	Endrin Ketone	53494-70-5	0.096	U	0.096	0.38	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.5	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	1.4	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	3.4		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.40	21.5	1
07914	Boron	7440-42-8	2.50	J	0.956	5.37	1
01650	Calcium	7440-70-2	2,200		6.58	21.5	1
01654	Iron	7439-89-6	19,700		5.06	21.5	1
01656	Lithium	7439-93-2	20.2		0.24	2.1	1
01657	Magnesium	7439-95-4	3,830		2.73	10.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-101-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5A-SS-0.0-0.5

LLI Sample # SW 6210677
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:45

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8609 SDG#: DE086-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	335		0.0838	0.537	1
10145	Phosphorus	7723-14-0	367		0.601	10.7	1
01662	Potassium	7440-09-7	3,610		19.3	53.7	1
01667	Sodium	7440-23-5	87.1	J	40.1	107	1
07968	Strontium	7440-24-6	20.0		0.0666	0.537	1
06969	Tin	7440-31-5	2.65	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,060		0.408	1.07	1
10146	Zirconium	7440-67-7	3.02	J	0.902	5.37	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0651	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.74		0.0868	0.434	2
06126	Barium	7440-39-3	128		0.117	0.434	2
06127	Beryllium	7440-41-7	0.673		0.0174	0.108	2
06128	Cadmium	7440-43-9	0.266		0.0430	0.107	2
06131	Chromium	7440-47-3	24.9		0.130	0.434	2
06132	Cobalt	7440-48-4	7.32		0.0217	0.108	2
06133	Copper	7440-50-8	12.0		0.0716	0.434	2
06135	Lead	7439-92-1	10.9		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.854		0.0542	0.108	2
06139	Nickel	7440-02-0	16.2		0.108	0.434	2
06141	Selenium	7782-49-2	0.146	J	0.0434	0.434	2
06142	Silver	7440-22-4	0.0680	J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.326		0.0325	0.108	2
06148	Vanadium	7440-62-2	43.2		0.0239	0.108	2
06149	Zinc	7440-66-6	51.7		0.607	3.25	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	396		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-101-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5A-SS-0.0-0.5

LLI Sample # SW 6210677
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:45

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8609 SDG#: DE086-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.45	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/02/2011 15:12	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	03/01/2011 15:03	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110550012A	02/26/2011 05:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 08:51	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 12:13	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110550012A	02/25/2011 03:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 10:37	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 10:37	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 10:37	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 10:37	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110535708002	03/01/2011 17:09	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 10:37	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 10:37	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 10:37	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 10:37	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 10:37	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 10:37	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 10:37	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 10:37	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-101-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5A-SS-0.0-0.5

LLI Sample # SW 6210677
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:45

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8609 SDG#: DE086-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 10:37	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 11:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201A	03/04/2011 06:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202A	03/01/2011 05:14	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243202A	02/25/2011 13:47	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201A	03/03/2011 10:55	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182102A	02/21/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039402A	02/21/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402B	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-102-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5A-SS-0.0-0.5

LLI Sample # SW 6210678
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8610 SDG#: DE086-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	19	U	19	190	1
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-102-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5A-SS-0.0-0.5

LLI Sample # SW 6210678
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8610 SDG#: DE086-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.78	J	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.89	J	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	J	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	43		6.8	20	1
10138	Chrysene	218-01-9	1.8	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.8	20	1
10138	Fluoranthene	206-44-0	2.1		0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	1.4	J	0.76	1.9	1
10138	Pyrene	129-00-0	1.8	J	0.76	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	2.6	U	2.6	2.6	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9	1
10401	MCPA	94-74-6	200	U	200	280	1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5A-SS-0.0-0.5

LLI Sample # SW 6210678
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8610 SDG#: DE086-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9	1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39	1
01363	p,p-DDE	72-55-9	0.075	U	0.075	0.39	1
01363	p,p-DDT	50-29-3	0.096	U	0.096	0.39	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39	1
01363	Endrin	72-20-8	0.075	U	0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39	1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	1.9		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		5.59	22.2	1
07914	Boron	7440-42-8	2.59	J	0.989	5.56	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5A-SS-0.0-0.5

LLI Sample # SW 6210678
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8610 SDG#: DE086-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	1,910		6.81	22.2	1
01654	Iron	7439-89-6	16,900		5.24	22.2	1
01656	Lithium	7439-93-2	17.5		0.24	2.2	1
01657	Magnesium	7439-95-4	3,370		2.82	11.1	1
06958	Manganese	7439-96-5	286		0.0867	0.556	1
10145	Phosphorus	7723-14-0	284		0.622	11.1	1
01662	Potassium	7440-09-7	3,030		20.0	55.6	1
01667	Sodium	7440-23-5	83.3	J	41.5	111	1
07968	Strontium	7440-24-6	18.0		0.0689	0.556	1
06969	Tin	7440-31-5	2.45	J	1.11	11.1	1
06970	Titanium	7440-32-6	957		0.422	1.11	1
10146	Zirconium	7440-67-7	2.72	J	0.934	5.56	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103	J	0.0660	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.92		0.0881	0.440	2
06126	Barium	7440-39-3	107		0.119	0.440	2
06127	Beryllium	7440-41-7	0.625		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.263		0.0445	0.111	2
06131	Chromium	7440-47-3	19.7		0.132	0.440	2
06132	Cobalt	7440-48-4	6.30		0.0220	0.110	2
06133	Copper	7440-50-8	10.1		0.0727	0.440	2
06135	Lead	7439-92-1	9.88		0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.608		0.0550	0.110	2
06139	Nickel	7440-02-0	13.5		0.110	0.440	2
06141	Selenium	7782-49-2	0.124	J	0.0440	0.440	2
06142	Silver	7440-22-4	0.0872	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.314		0.0330	0.110	2
06148	Vanadium	7440-62-2	35.6		0.0242	0.110	2
06149	Zinc	7440-66-6	38.6		0.616	3.30	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5A-SS-0.0-0.5

LLI Sample # SW 6210678
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8610 SDG#: DE086-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	496	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.43	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/02/2011 13:57	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	03/01/2011 15:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590028A	03/06/2011 04:31	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 09:06	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 12:32	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590028A	03/01/2011 03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 10:40	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 10:40	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 10:40	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 10:40	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110535708002	03/01/2011 17:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 10:40	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 10:40	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 10:40	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-102-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5A-SS-0.0-0.5

LLI Sample # SW 6210678
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8610 SDG#: DE086-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 10:40	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 10:40	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 10:40	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 10:40	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 10:40	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 10:40	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 11:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201A	03/04/2011 06:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202A	03/01/2011 05:38	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243202A	02/25/2011 14:06	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201A	03/03/2011 10:55	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182102A	02/21/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039402A	02/21/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402B	03/02/2011 19:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-241-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-241-SA5A-SS-0.0-0.5

LLI Sample # SW 6210679
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8611 SDG#: DE086-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	390	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	19	U	19	190	1
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-241-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-241-SA5A-SS-0.0-0.5

LLI Sample # SW 6210679
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8611 SDG#: DE086-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.60	J	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	2.0		0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	2.8		0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	5.9		0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	2.0		0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	12	J	7.0	21	1
10138	Chrysene	218-01-9	6.4		0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	11		0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	7.6		0.77	1.9	1
10138	Pyrene	129-00-0	9.1		0.77	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2	1
10401	Dalapon	75-99-0	5.1	U	5.1	10	1
10401	2,4-DB	94-82-6	9.3	U	9.3	9.3	1
10401	Dicamba	1918-00-9	0.77	J	0.46	1.4	1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0	1
10401	MCPA	94-74-6	840		88	290	1
10401	MCPP (Mecoprop)	93-65-2	710	U	710	710	1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20	1
10401	2,4,5-TP	93-72-1	0.39		0.087	0.20	1
	Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.						
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these						

Sample Description: **SL-241-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-241-SA5A-SS-0.0-0.5

LLI Sample # SW 6210679
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8611 SDG#: DE086-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	3.4	U	3.4	3.9	1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39	1
01363	p,p-DDE	72-55-9	0.88		0.076	0.39	1
01363	p,p-DDT	50-29-3	1.3		0.076	0.39	1
01363	Delta BHC	319-86-8	0.068	J	0.042	0.19	1
01363	Dieldrin	60-57-1	0.23	J	0.076	0.39	1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19	1
01363	Endosulfan II	33213-65-9	0.18	J	0.076	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39	1
01363	Endrin	72-20-8	0.076	U	0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.24	J	0.076	0.39	1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39	1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.073	U	0.073	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.35	J	0.076	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram, the values reported for heptachlor epoxide and technical chlordane represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	19		1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	3.0		0.38	2.0	1
10225	PCB-1260	11096-82-5	2.8		0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.71	22.7	1
07914	Boron	7440-42-8	2.62	J	1.01	5.68	1
01650	Calcium	7440-70-2	2,610		6.96	22.7	1
01654	Iron	7439-89-6	18,700		5.35	22.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-241-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-241-SA5A-SS-0.0-0.5

LLI Sample # SW 6210679
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8611 SDG#: DE086-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	19.5		0.25	2.3	1
01657	Magnesium	7439-95-4	3,710		2.89	11.4	1
06958	Manganese	7439-96-5	310		0.0886	0.568	1
10145	Phosphorus	7723-14-0	360		0.636	11.4	1
01662	Potassium	7440-09-7	3,190		20.4	56.8	1
01667	Sodium	7440-23-5	79.9	J	42.4	114	1
07968	Strontium	7440-24-6	22.0		0.0704	0.568	1
06969	Tin	7440-31-5	2.67	J	1.14	11.4	1
06970	Titanium	7440-32-6	933		0.432	1.14	1
10146	Zirconium	7440-67-7	3.13	J	0.954	5.68	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.276		0.0688	0.229	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.29		0.0918	0.459	2
06126	Barium	7440-39-3	136		0.124	0.459	2
06127	Beryllium	7440-41-7	0.708		0.0184	0.115	2
06128	Cadmium	7440-43-9	0.905		0.0450	0.112	2
06131	Chromium	7440-47-3	23.8		0.138	0.459	2
06132	Cobalt	7440-48-4	7.73		0.0229	0.115	2
06133	Copper	7440-50-8	16.7		0.0757	0.459	2
06135	Lead	7439-92-1	16.4		0.0119	0.229	2
06138	Molybdenum	7439-98-7	1.10		0.0574	0.115	2
06139	Nickel	7440-02-0	17.4		0.115	0.459	2
06141	Selenium	7782-49-2	0.234	J	0.0459	0.459	2
06142	Silver	7440-22-4	0.176		0.0138	0.115	2
06145	Thallium	7440-28-0	0.381		0.0344	0.115	2
06148	Vanadium	7440-62-2	44.7		0.0252	0.115	2
06149	Zinc	7440-66-6	85.6		0.642	3.44	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	J	0.0032	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	512		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-241-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-241-SA5A-SS-0.0-0.5

LLI Sample # SW 6210679
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8611 SDG#: DE086-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.36	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/02/2011 14:22	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	03/01/2011 16:06	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110550012A	02/26/2011 06:09	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 09:20	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 12:50	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110550012A	02/25/2011 03:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 10:44	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 10:44	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 10:44	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 10:44	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110535708002	03/01/2011 17:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 10:44	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 10:44	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 10:44	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 10:44	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-241-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-241-SA5A-SS-0.0-0.5

LLI Sample # SW 6210679
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8611 SDG#: DE086-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 10:44	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 10:44	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 10:44	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 10:44	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 10:44	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 11:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201B	03/04/2011 07:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202B	03/01/2011 06:02	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243202A	02/25/2011 14:12	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201B	03/03/2011 10:55	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202B	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182102A	02/21/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039402A	02/21/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402B	03/02/2011 19:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-242-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SS-0.0-0.5

LLI Sample # SW 6210680
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8612 SDG#: DE086-12*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	18	U	18	180	1
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-242-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SS-0.0-0.5

LLI Sample # SW 6210680
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8612 SDG#: DE086-12*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	8.9	J	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	7.7	J	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9	1
10401	2,4-DB	94-82-6	5.0	U	5.0	5.0	1
10401	Dicamba	1918-00-9	0.77	J	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	4.7		0.88	1.9	1
10401	MCPA	94-74-6	930		84	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.30		0.083	0.19	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-242-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SS-0.0-0.5

LLI Sample # SW 6210680
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:18

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E8612 SDG#: DE086-12*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	2.0	U	2.0	3.8	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38	1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38	1
01363	p,p-DDT	50-29-3	0.073	U	0.073	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported technical chlordane represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,400		5.40	21.5	1
07914	Boron	7440-42-8	2.28	J	0.955	5.36	1
01650	Calcium	7440-70-2	2,190		6.58	21.5	1
01654	Iron	7439-89-6	22,200		5.05	21.5	1
01656	Lithium	7439-93-2	21.1		0.24	2.1	1
01657	Magnesium	7439-95-4	4,280		2.72	10.7	1
06958	Manganese	7439-96-5	375		0.0837	0.536	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-242-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SS-0.0-0.5

LLI Sample # SW 6210680
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8612 SDG#: DE086-12*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	355		0.601	10.7	1
01662	Potassium	7440-09-7	3,820		19.3	53.6	1
01667	Sodium	7440-23-5	94.6	J	40.0	107	1
07968	Strontium	7440-24-6	24.5		0.0665	0.536	1
06969	Tin	7440-31-5	2.54	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,090		0.408	1.07	1
10146	Zirconium	7440-67-7	3.79	J	0.901	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0996	J	0.0650	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.83		0.0867	0.433	2
06126	Barium	7440-39-3	162		0.117	0.433	2
06127	Beryllium	7440-41-7	0.774		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.257		0.0438	0.109	2
06131	Chromium	7440-47-3	26.8		0.130	0.433	2
06132	Cobalt	7440-48-4	8.35		0.0217	0.108	2
06133	Copper	7440-50-8	14.9		0.0715	0.433	2
06135	Lead	7439-92-1	9.67		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.832		0.0542	0.108	2
06139	Nickel	7440-02-0	19.6		0.108	0.433	2
06141	Selenium	7782-49-2	0.144	J	0.0433	0.433	2
06142	Silver	7440-22-4	0.0619	J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.382		0.0325	0.108	2
06148	Vanadium	7440-62-2	47.2		0.0238	0.108	2
06149	Zinc	7440-66-6	56.3		0.607	3.25	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	512		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-242-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SS-0.0-0.5

LLI Sample # SW 6210680
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E8612 SDG#: DE086-12*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.33	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11054SLJ026	03/02/2011 14:47	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11054SLK026	03/01/2011 16:38	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11054SLK026	02/24/2011 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11054SLJ026	02/24/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110550012A	02/26/2011 06:37	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110540025A	03/02/2011 09:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110550010A	03/06/2011 13:09	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110540025A	02/24/2011 08:30	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110550010A	02/24/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110550012A	02/25/2011 03:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110535708002	02/23/2011 10:47	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110535708002	02/23/2011 10:47	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110535708002	02/23/2011 10:47	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110535708002	02/23/2011 10:47	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110535708002	03/01/2011 17:21	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110535708002	02/23/2011 10:47	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110535708002	02/23/2011 10:47	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110535708002	02/23/2011 10:47	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110535708002	02/23/2011 10:47	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110535708002	02/23/2011 10:47	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110535708002	02/23/2011 10:47	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110535708002	02/23/2011 10:47	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110535708002	02/23/2011 10:47	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110535708002	02/23/2011 10:47	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-242-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SS-0.0-0.5

LLI Sample # SW 6210680
LLI Group # 1233933
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 14:00

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14420 Albemarle Point Place
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E8612 SDG#: DE086-12*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110531026001A	03/03/2011 14:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110531026001A	03/03/2011 14:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110531026001D	03/03/2011 14:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110531026001A	03/03/2011 14:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026001A	03/08/2011 10:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110531026001A	03/03/2011 14:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110531026001A	03/03/2011 14:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110531026001A	03/03/2011 14:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110531026001A	03/03/2011 14:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110531026001C	03/03/2011 14:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110531026001A	03/03/2011 14:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110531026001B	03/03/2011 14:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110531026001A	03/03/2011 14:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110531026001A	03/03/2011 14:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110531026001A	03/03/2011 14:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110531026001A	03/03/2011 19:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110535711002	02/23/2011 11:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110535708002	02/22/2011 21:00	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110531026001	02/22/2011 21:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110661026001	03/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110535711002	02/23/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11061621201B	03/04/2011 08:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199202B	03/01/2011 07:38	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243202A	02/25/2011 14:31	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11061621201B	03/03/2011 10:55	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199202B	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182102A	02/21/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039402A	02/21/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243202A	02/23/2011 11:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402B	03/02/2011 19:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233933
Reported: 03/18/11 at 02:00 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11054SLJ026	Sample number(s): 6210666-6210674,6210676-6210680									
Acenaphthene	17	U	17.	170	ug/kg	94		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	97		75-122		
Aniline	170 U		170.	500	ug/kg	59		34-94		
Anthracene	17	U	17.	170	ug/kg	93		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	27		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	97		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	87		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	84		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	85		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	97		67-125		
Benzoic acid	170 U		170.	500	ug/kg	92		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	93		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	95		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	91		79-112		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	92		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	29		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	91		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	92		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	78		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	87		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	90		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	66		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	96		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	96		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	86		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	90		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	98		73-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233933
Reported: 03/18/11 at 02:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	97		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	93		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	95		75-117		
Fluoranthene	17	U	17.	170	ug/kg	94		78-116		
Fluorene	17	U	17.	170	ug/kg	95		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	83		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	85		64-119		
Isophorone	17	U	17.	170	ug/kg	88		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	91		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	85		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	88		66-117		
Naphthalene	17	U	17.	170	ug/kg	91		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	86		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	69		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	88		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	89		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	76		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	83		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	82		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	94		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	99		51-117		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	91		58-112		
Pyrene	17	U	17.	170	ug/kg	95		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11054SLK026	Sample number(s): 6210666-6210674,6210676-6210680									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	92		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	98		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	97		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	107		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	103		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	113		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	105		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	109		65-131		
Di-n-butylphthalate	6.1	J	6.0	18	ug/kg	104		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	107		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	108		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	105		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	123		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	96		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	95		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	106		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	80		62-120		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233933
Reported: 03/18/11 at 02:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	1.1	J	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	79		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	107		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	95		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		56-121		
Batch number: 110550012A	Sample number(s): 6210666-6210674,6210676-6210677,6210679-6210680									
2,4-D	1.2	U	1.2	3.6	ug/kg	90		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	35		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	85		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	77		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	22		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	97		60-141		
MCPA	76	U	76.	250	ug/kg	77		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	73		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	84		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	78		48-138		
Batch number: 110590028A	Sample number(s): 6210678									
2,4-D	1.2	U	1.2	3.6	ug/kg	78		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	31		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	83		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	72		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	39*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	97		62-170		
MCPA	76	U	76.	250	ug/kg	83		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	91		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	73		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	76		68-114		
Batch number: 110540019A	Sample number(s): 6210672-6210674									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		85-115		
Batch number: 110540025A	Sample number(s): 6210666-6210674,6210676-6210680									
Aldrin	0.066	U	0.066	0.17	ug/kg	115		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	88		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	91		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	104		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	138		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	103		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	95		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	70		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	117		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	128		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	97		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	85		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	118		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	88		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	121		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	105		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110550010A	Sample number(s): 6210666-6210674,6210676-6210680									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233933
Reported: 03/18/11 at 02:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	62	69	36-106	12	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	91		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	96		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110531026001A	Sample number(s): 6210666-6210680									
Antimony	0.189	J	0.0600	0.200	mg/kg	73		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		80-120		
Beryllium	0.0329	J	0.0160	0.100	mg/kg	106		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	113		80-120		
Cobalt	0.0518	J	0.0200	0.100	mg/kg	107		82-118		
Copper	0.0816	J	0.0660	0.400	mg/kg	109		80-120		
Lead	0.0436	J	0.0104	0.200	mg/kg	105		80-120		
Nickel	0.124	J	0.100	0.400	mg/kg	111		80-120		
Silver	0.0302	J	0.0120	0.100	mg/kg	105		66-134		
Thallium	0.0958	J	0.0300	0.100	mg/kg	108		81-119		
Vanadium	0.0669	J	0.0220	0.100	mg/kg	103		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	106		78-122		
Batch number: 110531026001B	Sample number(s): 6210666-6210680									
Selenium	0.0501	J	0.0400	0.400	mg/kg	108		79-122		
Batch number: 110531026001C	Sample number(s): 6210666-6210680									
Molybdenum	0.0538	J	0.0500	0.100	mg/kg	107		78-122		
Batch number: 110531026001D	Sample number(s): 6210666-6210680									
Barium	0.110	J	0.108	0.400	mg/kg	106		79-121		
Batch number: 110535708002	Sample number(s): 6210666-6210680									
Aluminum	5.03	U	5.03	20.0	mg/kg	85		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	93		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	97		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	96		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	94		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	102		81-119		
Phosphorus	1.34	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	94		78-110		
Sodium	37.3	U	37.3	100	mg/kg	98		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		79-121		
Tin	1.44	J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	84		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	100		80-120		
Batch number: 110535711002	Sample number(s): 6210666-6210680									
Mercury	0.0028	U	0.0028	0.0973	mg/kg	103		88-123		
Batch number: 110661026001A	Sample number(s): 6210666-6210680									
Cadmium	0.0400	U	0.0400	0.100	mg/kg	97		82-118		
Batch number: 11054243202A	Sample number(s): 6210666-6210673,6210675-6210680									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233933
Reported: 03/18/11 at 02:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11056199202A	Sample number(s): 6210666-6210673,6210675-6210678									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	101		85-115		
Batch number: 11056199202B	Sample number(s): 6210679-6210680									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	101		85-115		
Batch number: 11061621201A	Sample number(s): 6210666-6210673,6210675-6210678									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
Batch number: 11061621201B	Sample number(s): 6210679-6210680									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
Batch number: 11052039401B	Sample number(s): 6210666-6210672,6210675									
22a pH by 9045C						100		95-105		
Batch number: 11052039402A	Sample number(s): 6210676-6210680									
22a pH by 9045C						100		95-105		
Batch number: 11052182101B	Sample number(s): 6210666-6210672,6210675									
32a OR Potential						99		98-102		
Batch number: 11052182102A	Sample number(s): 6210676-6210680									
32a OR Potential						99		98-102		
Batch number: 11061162402A	Sample number(s): 6210667-6210675									
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
Batch number: 11061162402B	Sample number(s): 6210676-6210680									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11062162401A	Sample number(s): 6210666									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11054SLJ026	Sample number(s): 6210666-6210674,6210676-6210680 UNSPK: 6210672								
Acenaphthene	96	95	75-115	1	30				
Acenaphthylene	98	99	81-110	1	30				
Aniline	67	62	35-95	9	30				
Anthracene	97	94	75-115	2	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	99	98	65-122	1	30				
Benzo(a)pyrene	89	88	57-126	2	30				
Benzo(b)fluoranthene	81	89	59-125	9	30				
Benzo(g,h,i)perylene	91	89	59-127	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233933
Reported: 03/18/11 at 02:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(k)fluoranthene	97	84	56-132	15	30				
Benzoic acid	71	73	10-173	3	30				
Benzyl alcohol	98	95	67-115	3	30				
4-Bromophenyl-phenylether	96	93	67-129	3	30				
Butylbenzylphthalate	100	100	73-134	0	30				
Di-n-butylphthalate	93	90	67-123	2	30				
Carbazole	93	90	64-120	3	30				
4-Chloro-3-methylphenol	90	92	76-110	2	30				
4-Chloroaniline	58	54	23-95	8	30				
bis(2-Chloroethoxy)methane	92	92	75-104	0	30				
bis(2-Chloroethyl)ether	92	94	60-116	2	30				
bis(2-Chloroisopropyl)ether	93	92	55-142	1	30				
2-Chloronaphthalene	77	75	50-141	2	30				
2-Chlorophenol	99	98	73-121	0	30				
4-Chlorophenyl-phenylether	99	98	80-109	0	30				
Chrysene	99	98	62-128	1	30				
Dibenz(a,h)anthracene	91	90	65-125	1	30				
Dibenzofuran	98	98	71-112	0	30				
1,2-Dichlorobenzene	90	89	66-108	2	30				
1,3-Dichlorobenzene	87	86	63-109	1	30				
1,4-Dichlorobenzene	89	88	70-100	1	30				
3,3'-Dichlorobenzidine	73	68	16-119	7	30				
2,4-Dichlorophenol	94	95	78-117	1	30				
Diethylphthalate	95	95	66-118	0	30				
2,4-Dimethylphenol	92	90	78-110	2	30				
3,5-Dimethylphenol	97	97	70-130	0	30				
Dimethylphthalate	97	97	64-118	0	30				
4,6-Dinitro-2-methylphenol	78	75	24-116	3	30				
2,4-Dinitrophenol	62	62	20-143	0	30				
2,4-Dinitrotoluene	98	97	73-113	1	30				
2,6-Dinitrotoluene	95	97	69-123	2	30				
1,2-Diphenylhydrazine	97	94	71-129	3	30				
bis(2-Ethylhexyl)phthalate	101	100	63-122	0	30				
Fluoranthene	93	90	73-112	3	30				
Fluorene	95	95	77-111	0	30				
Hexachlorobenzene	100	98	77-114	2	30				
Hexachlorobutadiene	90	92	62-120	2	30				
Hexachlorocyclopentadiene	74	70	10-153	5	30				
Hexachloroethane	84	84	57-109	1	30				
Indeno(1,2,3-cd)pyrene	90	89	61-126	0	30				
Isophorone	89	88	73-102	1	30				
1-Methylnaphthalene	90	90	73-112	0	30				
2-Methylnaphthalene	86	86	76-114	1	30				
2-Methylphenol	94	94	75-111	0	30				
4-Methylphenol	92	91	71-111	2	30				
Naphthalene	90	90	72-116	0	30				
2-Nitroaniline	97	97	67-125	0	30				
3-Nitroaniline	91	91	59-122	0	30				
4-Nitroaniline	78	76	52-112	2	30				
Nitrobenzene	88	87	72-106	2	30				
2-Nitrophenol	91	91	74-115	1	30				
4-Nitrophenol	76	78	54-113	2	30				
N-Nitroso-di-n-propylamine	88	88	60-116	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233933
Reported: 03/18/11 at 02:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodimethylamine	86	86	47-116	0	30				
N-Nitrosodiphenylamine	98	95	86-145	3	30				
Di-n-octylphthalate	90	89	56-126	2	30				
Pentachlorophenol	106	104	28-127	2	30				
Phenanthrene	94	93	65-125	1	30				
Phenol	92	91	58-126	1	30				
Pyrene	100	98	74-126	2	30				
1,2,4-Trichlorobenzene	92	93	72-115	1	30				
2,4,5-Trichlorophenol	100	100	78-109	0	30				
2,4,6-Trichlorophenol	102	103	77-115	1	30				
Batch number: 11054SLK026	Sample number(s): 6210666-6210674,6210676-6210680 UNSPK: 6210672								
Acenaphthene	95	93	63-105	2	30				
Acenaphthylene	100	101	67-114	0	30				
Anthracene	102	101	60-122	1	30				
Benzo(a)anthracene	110	111	59-128	1	30				
Benzo(a)pyrene	107	106	45-138	1	30				
Benzo(b)fluoranthene	107	112	43-155	5	30				
Benzo(g,h,i)perylene	91	81	33-141	12	30				
Benzo(k)fluoranthene	105	103	42-144	2	30				
Butylbenzylphthalate	125	132	57-173	5	30				
Di-n-butylphthalate	113	116	65-148	3	30				
Chrysene	108	108	48-134	0	30				
Dibenz(a,h)anthracene	101	91	22-133	10	30				
Diethylphthalate	109	109	70-136	0	30				
Dimethylphthalate	107	107	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	-801 (2)	-787 (2)	39-167	9	30				
Fluoranthene	104	107	26-166	2	30				
Fluorene	99	98	66-122	1	30				
Indeno(1,2,3-cd)pyrene	99	90	21-143	9	30				
1-Methylnaphthalene	94	94	72-123	0	30				
2-Methylnaphthalene	85	86	64-103	1	30				
Naphthalene	88	89	61-102	1	30				
N-Nitrosodimethylamine	87	91	48-113	4	30				
Di-n-octylphthalate	118	123	40-192	4	30				
Phenanthrene	99	100	12-165	1	30				
Pyrene	104	106	15-153	1	30				
Batch number: 110550012A	Sample number(s): 6210666-6210674,6210676-6210677,6210679-6210680 UNSPK: 6210672								
2,4-D	72	84	28-161	16	35				
Dalapon	28	65	12-86	80*	50				
2,4-DB	92	154	20-170	50	50				
Dicamba	48	57	33-120	16	50				
Dinoseb	14	26	1-44	63*	35				
2,4-DP (Dichlorprop)	95	114	55-141	18	50				
MCPA	63	76	31-184	10	50				
MCPP (Mecoprop)	84	84	16-174	0	50				
2,4,5-T	31	25	25-132	21	35				
2,4,5-TP	63	80	10-183	24	35				
Batch number: 110590028A	Sample number(s): 6210678 UNSPK: P211463								
2,4-D	76	88	17-180	14	35				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233933
Reported: 03/18/11 at 02:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dalapon	59	65	10-125	10	50				
2,4-DB	84	91	10-201	9	50				
Dicamba	125	80	10-190	45	50				
Dinoseb	12	12	10-46	0	35				
2,4-DP (Dichlorprop)	105	118	33-178	11	50				
MCPA	66	83	10-213	13	50				
MCPP (Mecoprop)	42	85	10-184	68*	50				
2,4,5-T	36	45	10-156	21	35				
2,4,5-TP	61	66	24-141	8	35				
Batch number: 110540019A	Sample number(s): 6210672-6210674 UNSPK: 6210672								
6a Perchlorate EPA 6850	103	109	80-120	6	20				
Batch number: 110540025A	Sample number(s): 6210666-6210674,6210676-6210680 UNSPK: 6210672								
Aldrin	79	115	16-126	38	50				
Alpha BHC	82	82	10-129	0	50				
Beta BHC	72	106	14-147	39	50				
Gamma BHC - Lindane	64	91	10-140	35	50				
p,p-DDD	64	111	16-163	54*	50				
p,p-DDE	101	172*	18-161	48	50				
p,p-DDT	40	98	10-176	52*	50				
Delta BHC	81	119	23-140	38	50				
Dieldrin	53	85	19-154	46	50				
Endosulfan I	45	67	16-137	38	50				
Endosulfan II	65	105	28-154	47	50				
Endosulfan Sulfate	74	112	21-160	41	50				
Endrin	52	86	11-149	49	50				
Endrin Aldehyde	64	77	10-148	19	35				
Endrin Ketone	75	105	22-165	32	50				
Heptachlor	61	91	13-126	40	50				
Heptachlor Epoxide	76	118	13-157	44	50				
Methoxychlor	61	90	32-147	38	50				
Batch number: 110550010A	Sample number(s): 6210666-6210674,6210676-6210680 UNSPK: 6210672								
PCB-1016	93	91	29-146	2	50				
PCB-1260	87	88	39-149	1	50				
Batch number: 110531026001A	Sample number(s): 6210666-6210680 UNSPK: 6210672 BKG: 6210672								
Antimony	46*	48*	75-125	4	20	0.112 J	0.153 J	31* (1)	20
Arsenic	151*	124	75-125	6	20	5.59	5.55	1	20
Beryllium	126*	115	75-125	5	20	0.701	0.708	1	20
Chromium	152*	134*	75-125	5	20	20.9	21.0	0	20
Cobalt	101	94	75-125	5	20	15.8	6.43	84*	20
Copper	130*	118	75-125	6	20	9.24	9.69	5	20
Lead	118	103	75-125	3	20	11.7	11.1	5	20
Nickel	136*	131*	75-125	2	20	15.1	14.9	2	20
Silver	134*	128*	75-125	5	20	0.0601 J	0.0713 J	17 (1)	20
Thallium	126*	125	75-125	0	20	0.302	0.296	2 (1)	20
Vanadium	180*	143*	75-125	7	20	38.5	39.8	3	20
Zinc	92 (2)	107 (2)	75-125	2	20	49.6	47.3	5	20
Batch number: 110531026001B	Sample number(s): 6210666-6210680 UNSPK: 6210672 BKG: 6210672								
Selenium	121	120	75-125	1	20	0.144 J	0.106 J	31* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233933
Reported: 03/18/11 at 02:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110531026001C	Sample number(s): 6210666-6210680 UNSPK: 6210672 BKG: 6210672								
Molybdenum	133*	126*	75-125	6	20	0.708	0.570	22*	20
Batch number: 110531026001D	Sample number(s): 6210666-6210680 UNSPK: 6210672 BKG: 6210672								
Barium	166 (2)	113 (2)	75-125	4	20	115	115	0	20
Batch number: 110535708002	Sample number(s): 6210666-6210680 UNSPK: 6210672 BKG: 6210672								
Aluminum	2126 (2)	1985 (2)	75-125	1	20	14,800	14,900	1	20
Boron	98	100	84-115	2	20	2.33 J	1.84 J	24* (1)	20
Calcium	170 (2)	177 (2)	75-125	1	20	2,090	2,160	3	20
Iron	1931 (2)	1123 (2)	75-125	4	20	18,300	18,800	3	20
Lithium	103	104	82-114	1	20	19.7	20.7	5	20
Magnesium	201 (2)	210 (2)	75-125	0	20	3,510	3,580	2	20
Manganese	182 (2)	178 (2)	75-125	0	20	270	301	11	20
Phosphorus	111	114	75-125	1	20	301	342	13	20
Potassium	128*	127*	75-125	0	20	2,860	2,900	1	20
Sodium	99	101	75-125	2	20	70.0 J	70.2 J	0 (1)	20
Strontium	100	101	75-115	1	20	17.0	17.1	0	20
Tin	88	89	80-110	1	20	2.38 J	2.37 J	0 (1)	20
Titanium	287 (2)	278 (2)	75-125	1	20	895	894	0	20
Zirconium	94	95	75-125	1	20	3.10 J	3.53 J	13 (1)	20
Batch number: 110535711002	Sample number(s): 6210666-6210680 UNSPK: 6210672 BKG: 6210672								
Mercury	102	98	65-135	5	20	0.0028 J	0.0028 U	200* (1)	20
Batch number: 110661026001A	Sample number(s): 6210666-6210680 UNSPK: 6210672 BKG: 6210672								
Cadmium	103	98	75-125	5	20	0.171	0.174	2 (1)	20
Batch number: 11054243202A	Sample number(s): 6210666-6210673,6210675-6210680 UNSPK: 6210672 BKG: 6210672								
3a Cr VI by EPA 7199	81		75-125			0.53 J	0.61 J	13 (1)	20
Batch number: 11056199202A	Sample number(s): 6210666-6210673,6210675-6210678 UNSPK: 6210672 BKG: 6210672								
7a Perchlorate EPA 314.0	95		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11056199202B	Sample number(s): 6210679-6210680 UNSPK: 6210679 BKG: 6210679								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11061621201A	Sample number(s): 6210666-6210673,6210675-6210678 UNSPK: 6210672 BKG: 6210672								
11a Anions by 300.0 - Fluoride	56*		80-120			1.5	1.4	3 (1)	20
Batch number: 11061621201B	Sample number(s): 6210679-6210680 UNSPK: 6210679 BKG: 6210679								
11a Anions by 300.0 - Fluoride	56*		80-120			1.5	1.5	3 (1)	20
Batch number: 11052039401B	Sample number(s): 6210666-6210672,6210675 BKG: 6210672								
22a pH by 9045C						6.93	6.94	0	1
Batch number: 11052039402A	Sample number(s): 6210676-6210680 BKG: 6210676								
22a pH by 9045C						6.44	6.44	0	1
Batch number: 11052182101B	Sample number(s): 6210666-6210672,6210675 BKG: 6210672								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233933
Reported: 03/18/11 at 02:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
32a OR Potential						503	504	0	6
Batch number: 11052182102A	Sample number(s): 6210676-6210680					BKG: 6210676			
32a OR Potential						360	365	1	6
Batch number: 11061162402A	Sample number(s): 6210667-6210675					BKG: 6210672			
28a Moisture Content by 160.3						9.4	9.2	2	20
28a Moisture Content by 160.3						9.4	9.2	2	20
28a Moisture Content by 160.3						9.4	9.2	2	20
Batch number: 11061162402B	Sample number(s): 6210676-6210680					BKG: 6210678			
28a Moisture Content by 160.3						11.8	12.1	3	20
Batch number: 11062162401A	Sample number(s): 6210666					BKG: P211466			
28a Moisture Content by 160.3						14.8	14.5	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11054SLJ026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6210666	87	89	97	81	89	85
6210667	90	92	98	78	87	86
6210668	85	87	96	78	88	84
6210669	170*	172*	194*	154*	169*	158*
6210670	74	78	80	70	77	66
6210671	87	91	98	80	89	78
6210672	138*	143*	147*	129*	143*	147*
6210673	88	91	102	81	89	85
6210674	88	91	102	82	89	84
6210676	89	91	99	81	90	80
6210677	89	90	98	84	86	86
6210678	85	88	94	83	87	85
6210679	89	91	101	86	89	87
6210680	88	92	100	87	90	84
Blank	83	86	98	79	85	80
LCS	86	88	98	80	87	80
MS	88	91	102	81	89	85
MSD	88	91	102	82	89	84
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11054SLK026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233933
Reported: 03/18/11 at 02:00 PM

Surrogate Quality Control

6210666	94	86	93
6210667	98	86	103
6210668	101	86	101
6210669	105	92	111
6210670	96	80	91
6210671	91	78	88
6210672	94	85	97
6210673	98	87	103
6210674	98	86	101
6210676	103	83	101
6210677	104	88	100
6210678	96	82	95
6210679	100	86	99
6210680	96	82	96
Blank	97	91	111
LCS	93	85	101
MS	98	87	103
MSD	98	86	101
Limits:	40-130	45-130	45-135

Analysis Name: 12a Pesticides by 8081A
Batch number: 110540025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6210666	78	115
6210667	101	92
6210668	97	119
6210669	90	89
6210670	84	112
6210671	103	46
6210672	64	51
6210673	78	41
6210674	93	96
6210676	82	183*
6210677	69	58
6210678	26*	22
6210679	100	64
6210680	78	63
Blank	78	107
LCS	80	110
MS	78	41
MSD	93	96
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110550010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6210666	93	87
6210667	87	84
6210668	89	83
6210669	94	84
6210670	73	71
6210671	96	164*
6210672	95	78
6210673	101	76

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233933
Reported: 03/18/11 at 02:00 PM

Surrogate Quality Control

6210674	95	76
6210676	93	69
6210677	93	86
6210678	88	87
6210679	93	68
6210680	85	97
Blank	95	86
LCS	97	88
LCSD	97	94
MS	101	76
MSD	95	76
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110550012A

	2,4-Dichlorophenylacetic acid
6210666	94
6210667	92
6210668	79
6210669	103
6210670	68
6210671	77
6210672	69
6210673	63
6210674	70
6210676	81
6210677	67
6210679	77
6210680	100
Blank	79
LCS	91
MS	63
MSD	70
Limits:	36-156

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110590028A

	2,4-Dichlorophenylacetic acid
6210678	87
Blank	93
LCS	85
MS	85
MSD	89
Limits:	36-156

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1233933 sample# 62106666-80

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (soil + ww)	SS ONLY: *Herbicides EPA 8151A (soil + ww)	VOCs: VOCs/EPA 8260B $	VOCs: 1,4-Dioxane EPA 8260SIM $	VOCs: TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP01-SA5A-QC-021811	2.18.2011	1035	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														FIELD DUPLICATE
DUP01-SA5A-QC-021811	2.18.2011	1035	SOIL	NONE	1-6 inch sleeve			X	X																				FIELD DUPLICATE
SL-049-SA5A-SS-0.0-0.5	2.18.2011	0825	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-049-SA5A-SS-0.0-0.5	2.18.2011	0825	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-052-SA5A-SS-0.0-0.5	2.18.2011	1128	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-052-SA5A-SS-0.0-0.5	2.18.2011	1128	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-053-SA5A-SS-0.0-0.5	2.18.2011	1320	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-053-SA5A-SS-0.0-0.5	2.18.2011	1320	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-096-SA5A-SS-0.0-0.5	2.18.2011	1256	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-096-SA5A-SS-0.0-0.5	2.18.2011	1256	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-098-SA5A-SS-0.0-0.5	2.18.2011	1105	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-098-SA5A-SS-0.0-0.5	2.18.2011	1105	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-099-SA5A-SS-0.0-0.5MS	2.18.2011	1035	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X														MS/MSD
SL-099-SA5A-SS-0.0-0.5MS	2.18.2011	1035	SOIL	NONE	2-6 inch sleeves			X	X																				MS/MSD
SL-100-SA5A-SS-0.0-0.5	2.18.2011	0850	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-100-SA5A-SS-0.0-0.5	2.18.2011	0850	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-101-SA5A-SS-0.0-0.5	2.18.2011	0945	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-101-SA5A-SS-0.0-0.5	2.18.2011	0945	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-102-SA5A-SS-0.0-0.5	2.18.2011	0918	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-102-SA5A-SS-0.0-0.5	2.18.2011	0918	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-241-SA5A-SS-0.0-0.5	2.18.2011	1050	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-241-SA5A-SS-0.0-0.5	2.18.2011	1050	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-242-SA5A-SS-0.0-0.5	2.18.2011	1118	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-242-SA5A-SS-0.0-0.5	2.18.2011	1118	SOIL	NONE	1-6 inch sleeve			X	X																				

Relinquished by: (*Signature*) — Date/Time: 02/18/2011 / 14:30

Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time: 0936

Airbill No.(s): 8695 1432 3173, ...3184

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 15, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/19/2011
Group Number: 1233934
SDG: DX051
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP01-SA5A-QC-021811 Soil	6210681
SL-049-SA5A-SS-0.0-0.5 Soil	6210682
SL-052-SA5A-SS-0.0-0.5 Soil	6210683
SL-053-SA5A-SS-0.0-0.5 Soil	6210684
SL-096-SA5A-SS-0.0-0.5 Soil	6210685
SL-098-SA5A-SS-0.0-0.5 Soil	6210686
SL-099-SA5A-SS-0.0-0.5 Soil	6210687
SL-099-SA5A-SS-0.0-0.5MS Soil	6210688
SL-099-SA5A-SS-0.0-0.5MSD Soil	6210689
SL-100-SA5A-SS-0.0-0.5 Soil	6210690
SL-101-SA5A-SS-0.0-0.5 Soil	6210691

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP01-SA5A-QC-021811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA5A-QC-021811

LLI Sample # SW 6210681
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5112 SDG#: DX051-12FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP01-SA5A-QC-021811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA5A-QC-021811

LLI Sample # SW 6210681
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5112 SDG#: DX051-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.121	J	0.0180	1.11	1
11031	12378-PeCDD	40321-76-4	0.790	JB	0.0515	5.55	1
11031	123478-HxCDD	39227-28-6	1.46	J	0.0829	5.55	1
11031	123678-HxCDD	57653-85-7	3.09	JB	0.0804	5.55	1
11031	123789-HxCDD	19408-74-3	3.23	J	0.0767	5.55	1
11031	1234678-HpCDD	35822-46-9	112	B	0.0900	5.55	1
11031	OCDD	3268-87-9	1,540	B	0.0805	11.1	1
11031	2378-TCDF	51207-31-9	0.162	JB	0.0337	1.11	1
11031	12378-PeCDF	57117-41-6	0.111	JBQ	0.0164	5.55	1
11031	23478-PeCDF	57117-31-4	0.357	JB	0.0173	5.55	1
11031	123478-HxCDF	70648-26-9	1.03	JB	0.0750	5.55	1
11031	123678-HxCDF	57117-44-9	0.653	JB	0.0491	5.55	1
11031	123789-HxCDF	72918-21-9	0.222	JB	0.0434	5.55	1
11031	234678-HxCDF	60851-34-5	1.02	JB	0.0368	5.55	1
11031	1234678-HpCDF	67562-39-4	25.9	B	0.0564	5.55	1
11031	1234789-HpCDF	55673-89-7	2.50	JB	0.0579	5.55	1
11031	OCDF	39001-02-0	119	B	0.0335	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	95	25 - 164
13C12-12378-PeCDD	101	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	93	24 - 169
13C12-12378-PeCDF	107	24 - 185
13C12-23478-PeCDF	100	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	94	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	108	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP01-SA5A-QC-021811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA5A-QC-021811

LLI Sample # SW 6210681
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5112 SDG#: DX051-12FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP01-SA5A-QC-021811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA5A-QC-021811

LLI Sample # SW 6210681
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5112 SDG#: DX051-12FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/04/2011 14:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-049-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SS-0.0-0.5

LLI Sample # SW 6210682
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:25

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5113 SDG#: DX051-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-049-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SS-0.0-0.5

LLI Sample # SW 6210682
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:25

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5113 SDG#: DX051-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0417	JQ	0.0148	1.12	1
11031	12378-PeCDD	40321-76-4	0.308	JBQ	0.0356	5.59	1
11031	123478-HxCDD	39227-28-6	0.562	J	0.0647	5.59	1
11031	123678-HxCDD	57653-85-7	1.43	JB	0.0649	5.59	1
11031	123789-HxCDD	19408-74-3	1.35	J	0.0616	5.59	1
11031	1234678-HpCDD	35822-46-9	43.0	B	0.0725	5.59	1
11031	OCDD	3268-87-9	694	B	0.0568	11.2	1
11031	2378-TCDF	51207-31-9	0.188	JBQ	0.0366	1.12	1
11031	12378-PeCDF	57117-41-6	0.113	JB	0.0191	5.59	1
11031	23478-PeCDF	57117-31-4	0.370	JB	0.0204	5.59	1
11031	123478-HxCDF	70648-26-9	0.546	JB	0.0502	5.59	1
11031	123678-HxCDF	57117-44-9	0.313	JB	0.0377	5.59	1
11031	123789-HxCDF	72918-21-9	0.295	JB	0.0438	5.59	1
11031	234678-HxCDF	60851-34-5	0.449	JB	0.0357	5.59	1
11031	1234678-HpCDF	67562-39-4	8.34	B	0.0302	5.59	1
11031	1234789-HpCDF	55673-89-7	0.792	JB	0.0512	5.59	1
11031	OCDF	39001-02-0	30.9	B	0.0328	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SS-0.0-0.5

LLI Sample # SW 6210682
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:25

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5113 SDG#: DX051-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SS-0.0-0.5

LLI Sample # SW 6210682
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:25

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5113 SDG#: DX051-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/04/2011 15:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-052-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SS-0.0-0.5

LLI Sample # SW 6210683
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:28

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5114 SDG#: DX051-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-052-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SS-0.0-0.5

LLI Sample # SW 6210683
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:28

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5114 SDG#: DX051-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0173	U	0.0173	1.11	1
11031	12378-PeCDD	40321-76-4	0.295	JB	0.0304	5.55	1
11031	123478-HxCDD	39227-28-6	0.409	J	0.0553	5.55	1
11031	123678-HxCDD	57653-85-7	0.880	JB	0.0563	5.55	1
11031	123789-HxCDD	19408-74-3	0.963	J	0.0497	5.55	1
11031	1234678-HpCDD	35822-46-9	23.5	B	0.0628	5.55	1
11031	OCDD	3268-87-9	307	B	0.0424	11.1	1
11031	2378-TCDF	51207-31-9	0.196	JBQ	0.0360	1.11	1
11031	12378-PeCDF	57117-41-6	0.132	JB	0.0190	5.55	1
11031	23478-PeCDF	57117-31-4	0.402	JB	0.0209	5.55	1
11031	123478-HxCDF	70648-26-9	0.534	JB	0.0552	5.55	1
11031	123678-HxCDF	57117-44-9	0.263	JBQ	0.0392	5.55	1
11031	123789-HxCDF	72918-21-9	0.297	JB	0.0444	5.55	1
11031	234678-HxCDF	60851-34-5	0.377	JB	0.0357	5.55	1
11031	1234678-HpCDF	67562-39-4	5.73	B	0.0238	5.55	1
11031	1234789-HpCDF	55673-89-7	0.507	JB	0.0375	5.55	1
11031	OCDF	39001-02-0	18.8	B	0.0299	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-052-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SS-0.0-0.5

LLI Sample # SW 6210683
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:28

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5114 SDG#: DX051-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-052-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SS-0.0-0.5

LLI Sample # SW 6210683
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:28

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5114 SDG#: DX051-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/04/2011 16:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-053-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SS-0.0-0.5

LLI Sample # SW 6210684
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 13:20

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5115 SDG#: DX051-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-053-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SS-0.0-0.5

LLI Sample # SW 6210684
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 13:20

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5115 SDG#: DX051-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0659	J	0.0140	1.10	1
11031	12378-PeCDD	40321-76-4	0.551	JB	0.0368	5.48	1
11031	123478-HxCDD	39227-28-6	0.996	J	0.0635	5.48	1
11031	123678-HxCDD	57653-85-7	3.65	JB	0.0627	5.48	1
11031	123789-HxCDD	19408-74-3	2.60	J	0.0564	5.48	1
11031	1234678-HpCDD	35822-46-9	118	B	0.0782	5.48	1
11031	OCDD	3268-87-9	2,930	B	0.0944	11.0	1
11031	2378-TCDF	51207-31-9	0.253	JB	0.0322	1.10	1
11031	12378-PeCDF	57117-41-6	0.191	JB	0.0179	5.48	1
11031	23478-PeCDF	57117-31-4	0.447	JB	0.0197	5.48	1
11031	123478-HxCDF	70648-26-9	0.891	JB	0.0566	5.48	1
11031	123678-HxCDF	57117-44-9	0.317	JB	0.0384	5.48	1
11031	123789-HxCDF	72918-21-9	0.398	JB	0.0386	5.48	1
11031	234678-HxCDF	60851-34-5	0.413	JB	0.0318	5.48	1
11031	1234678-HpCDF	67562-39-4	7.95	B	0.0207	5.48	1
11031	1234789-HpCDF	55673-89-7	0.429	JB	0.0319	5.48	1
11031	OCDF	39001-02-0	22.9	B	0.0256	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-053-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SS-0.0-0.5

LLI Sample # SW 6210684
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 13:20

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5115 SDG#: DX051-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-053-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SS-0.0-0.5

LLI Sample # SW 6210684
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 13:20

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5115 SDG#: DX051-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/04/2011 17:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-096-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5A-SS-0.0-0.5

LLI Sample # SW 6210685
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 12:56

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5116 SDG#: DX051-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-096-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5A-SS-0.0-0.5

LLI Sample # SW 6210685
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 12:56

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5116 SDG#: DX051-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	1.40 Q	0.0381	1.17	1
11031	12378-PeCDD	40321-76-4	14.0 B	0.121	5.86	1
11031	123478-HxCDD	39227-28-6	26.1	0.185	5.86	1
11031	123678-HxCDD	57653-85-7	88.6 B	0.168	5.86	1
11031	123789-HxCDD	19408-74-3	57.4	0.141	5.86	1
11031	1234678-HpCDD	35822-46-9	2,420 EB	0.427	5.86	1
11031	OCDD	3268-87-9	46,300 EB	0.400	11.7	1
11031	2378-TCDF	51207-31-9	0.530 JB	0.0954	1.17	1
11031	12378-PeCDF	57117-41-6	1.60 JB	0.0549	5.86	1
11031	23478-PeCDF	57117-31-4	3.12 JB	0.0540	5.86	1
11031	123478-HxCDF	70648-26-9	10.3 B	0.229	5.86	1
11031	123678-HxCDF	57117-44-9	6.60 B	0.155	5.86	1
11031	123789-HxCDF	72918-21-9	3.44 JB	0.0927	5.86	1
11031	234678-HxCDF	60851-34-5	7.81 B	0.0893	5.86	1
11031	1234678-HpCDF	67562-39-4	187 B	0.200	5.86	1
11031	1234789-HpCDF	55673-89-7	12.2 B	0.133	5.86	1
11031	OCDF	39001-02-0	782 B	0.0934	11.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	49	28 - 143

*=This limit was used in the evaluation of the final result

Sample Description: **SL-096-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5A-SS-0.0-0.5

LLI Sample # SW 6210685
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 12:56

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5116 SDG#: DX051-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-096-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5A-SS-0.0-0.5

LLI Sample # SW 6210685
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 12:56

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5116 SDG#: DX051-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/02/2011 14:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-098-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5A-SS-0.0-0.5

LLI Sample # SW 6210686
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:05

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5117 SDG#: DX051-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-098-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5A-SS-0.0-0.5

LLI Sample # SW 6210686
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:05

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5117 SDG#: DX051-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.120	J	0.0223	1.13	1
11031	12378-PeCDD	40321-76-4	0.752	JB	0.0573	5.66	1
11031	123478-HxCDD	39227-28-6	1.56	J	0.119	5.66	1
11031	123678-HxCDD	57653-85-7	5.69	B	0.112	5.66	1
11031	123789-HxCDD	19408-74-3	3.57	J	0.0980	5.66	1
11031	1234678-HpCDD	35822-46-9	193	B	0.157	5.66	1
11031	OCDD	3268-87-9	2,410	B	0.114	11.3	1
11031	2378-TCDF	51207-31-9	0.519	JB	0.117	1.13	1
11031	12378-PeCDF	57117-41-6	0.330	JB	0.0484	5.66	1
11031	23478-PeCDF	57117-31-4	1.26	JB	0.0493	5.66	1
11031	123478-HxCDF	70648-26-9	2.75	JB	0.122	5.66	1
11031	123678-HxCDF	57117-44-9	1.20	JB	0.0857	5.66	1
11031	123789-HxCDF	72918-21-9	0.433	JB	0.0686	5.66	1
11031	234678-HxCDF	60851-34-5	1.55	JB	0.0573	5.66	1
11031	1234678-HpCDF	67562-39-4	39.1	B	0.105	5.66	1
11031	1234789-HpCDF	55673-89-7	2.60	JB	0.0985	5.66	1
11031	OCDF	39001-02-0	154	B	0.0648	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-098-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5A-SS-0.0-0.5

LLI Sample # SW 6210686
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:05

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5117 SDG#: DX051-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-098-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5A-SS-0.0-0.5

LLI Sample # SW 6210686
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:05

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5117 SDG#: DX051-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/02/2011 15:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-099-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210687
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5118 SDG#: DX051-18BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-099-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210687
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5118 SDG#: DX051-18BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.121	JQ	0.0180	1.10	1
11031	12378-PeCDD	40321-76-4	0.779	JB	0.0485	5.52	1
11031	123478-HxCDD	39227-28-6	1.36	J	0.0635	5.52	1
11031	123678-HxCDD	57653-85-7	2.82	JB	0.0643	5.52	1
11031	123789-HxCDD	19408-74-3	2.82	J	0.0597	5.52	1
11031	1234678-HpCDD	35822-46-9	93.5	B	0.0889	5.52	1
11031	OCDD	3268-87-9	1,130	B	0.0679	11.0	1
11031	2378-TCDF	51207-31-9	0.188	JB	0.0396	1.10	1
11031	12378-PeCDF	57117-41-6	0.139	JB	0.0187	5.52	1
11031	23478-PeCDF	57117-31-4	0.375	JB	0.0193	5.52	1
11031	123478-HxCDF	70648-26-9	0.900	JB	0.0597	5.52	1
11031	123678-HxCDF	57117-44-9	0.630	JB	0.0434	5.52	1
11031	123789-HxCDF	72918-21-9	0.268	JB	0.0501	5.52	1
11031	234678-HxCDF	60851-34-5	0.964	JB	0.0396	5.52	1
11031	1234678-HpCDF	67562-39-4	23.4	B	0.0468	5.52	1
11031	1234789-HpCDF	55673-89-7	2.14	JB	0.0689	5.52	1
11031	OCDF	39001-02-0	94.6	B	0.0479	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-099-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210687
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5118 SDG#: DX051-18BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-099-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210687
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5118 SDG#: DX051-18BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/02/2011 16:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-099-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210688
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5118 SDG#: DX051-18MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-099-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210688
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5118 SDG#: DX051-18MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.2		0.0316	1.10	1
11031	12378-PeCDD	40321-76-4	116	B	0.0789	5.52	1
11031	123478-HxCDD	39227-28-6	118		0.0678	5.52	1
11031	123678-HxCDD	57653-85-7	120	B	0.0683	5.52	1
11031	123789-HxCDD	19408-74-3	120		0.0634	5.52	1
11031	1234678-HpCDD	35822-46-9	234	B	0.120	5.52	1
11031	OCDD	3268-87-9	1,640	B	0.0853	11.0	1
11031	2378-TCDF	51207-31-9	24.7	B	0.0485	1.10	1
11031	12378-PeCDF	57117-41-6	113	B	0.0317	5.52	1
11031	23478-PeCDF	57117-31-4	115	B	0.0308	5.52	1
11031	123478-HxCDF	70648-26-9	115	B	0.0736	5.52	1
11031	123678-HxCDF	57117-44-9	116	B	0.0600	5.52	1
11031	123789-HxCDF	72918-21-9	115	B	0.0666	5.52	1
11031	234678-HxCDF	60851-34-5	116	B	0.0565	5.52	1
11031	1234678-HpCDF	67562-39-4	139	B	0.0662	5.52	1
11031	1234789-HpCDF	55673-89-7	116	B	0.0827	5.52	1
11031	OCDF	39001-02-0	344	B	0.0539	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-099-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210688
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5118 SDG#: DX051-18MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-099-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210688
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5118 SDG#: DX051-18MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/02/2011 17:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-099-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210689
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5118 SDG#: DX051-18MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-099-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210689
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5118 SDG#: DX051-18MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.3		0.0264	1.10	1
11031	12378-PeCDD	40321-76-4	114	B	0.0572	5.52	1
11031	123478-HxCDD	39227-28-6	115		0.0705	5.52	1
11031	123678-HxCDD	57653-85-7	116	B	0.0708	5.52	1
11031	123789-HxCDD	19408-74-3	118		0.0647	5.52	1
11031	1234678-HpCDD	35822-46-9	188	B	0.108	5.52	1
11031	OCDD	3268-87-9	1,670	B	0.0703	11.0	1
11031	2378-TCDF	51207-31-9	24.7	B	0.0480	1.10	1
11031	12378-PeCDF	57117-41-6	114	B	0.0332	5.52	1
11031	23478-PeCDF	57117-31-4	114	B	0.0323	5.52	1
11031	123478-HxCDF	70648-26-9	116	B	0.0749	5.52	1
11031	123678-HxCDF	57117-44-9	114	B	0.0566	5.52	1
11031	123789-HxCDF	72918-21-9	116	B	0.0571	5.52	1
11031	234678-HxCDF	60851-34-5	116	B	0.0494	5.52	1
11031	1234678-HpCDF	67562-39-4	139	B	0.0660	5.52	1
11031	1234789-HpCDF	55673-89-7	116	B	0.0777	5.52	1
11031	OCDF	39001-02-0	354	B	0.0651	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-099-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210689
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5118 SDG#: DX051-18MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-099-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5A-SS-0.0-0.5

LLI Sample # SW 6210689
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:35

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5118 SDG#: DX051-18MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/02/2011 18:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402A	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5A-SS-0.0-0.5

LLI Sample # SW 6210690
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:50

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5119 SDG#: DX051-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-100-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5A-SS-0.0-0.5

LLI Sample # SW 6210690
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:50

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5119 SDG#: DX051-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.278	J	0.0248	1.18	1
11031	12378-PeCDD	40321-76-4	2.29	JB	0.0804	5.91	1
11031	123478-HxCDD	39227-28-6	5.21	J	0.0767	5.91	1
11031	123678-HxCDD	57653-85-7	9.88	B	0.0760	5.91	1
11031	123789-HxCDD	19408-74-3	11.2		0.0735	5.91	1
11031	1234678-HpCDD	35822-46-9	397	B	0.166	5.91	1
11031	OCDD	3268-87-9	4,580	B	0.101	11.8	1
11031	2378-TCDF	51207-31-9	0.281	JBQ	0.0745	1.18	1
11031	12378-PeCDF	57117-41-6	0.334	JBQ	0.0317	5.91	1
11031	23478-PeCDF	57117-31-4	0.956	JB	0.0344	5.91	1
11031	123478-HxCDF	70648-26-9	3.75	JB	0.0745	5.91	1
11031	123678-HxCDF	57117-44-9	3.76	JB	0.0525	5.91	1
11031	123789-HxCDF	72918-21-9	0.676	JB	0.0618	5.91	1
11031	234678-HxCDF	60851-34-5	5.67	JB	0.0517	5.91	1
11031	1234678-HpCDF	67562-39-4	131	B	0.0642	5.91	1
11031	1234789-HpCDF	55673-89-7	12.8	B	0.104	5.91	1
11031	OCDF	39001-02-0	514	B	0.0662	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5A-SS-0.0-0.5

LLI Sample # SW 6210690
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:50

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5119 SDG#: DX051-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5A-SS-0.0-0.5

LLI Sample # SW 6210690
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 08:50

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5119 SDG#: DX051-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/02/2011 19:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402B	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5A-SS-0.0-0.5

LLI Sample # SW 6210691
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:45

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5120 SDG#: DX051-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-101-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5A-SS-0.0-0.5

LLI Sample # SW 6210691
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:45

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5120 SDG#: DX051-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0356	JQ	0.0164	1.11	1
11031	12378-PeCDD	40321-76-4	0.243	JBQ	0.0332	5.53	1
11031	123478-HxCDD	39227-28-6	0.411	J	0.0569	5.53	1
11031	123678-HxCDD	57653-85-7	1.28	JB	0.0588	5.53	1
11031	123789-HxCDD	19408-74-3	0.998	J	0.0558	5.53	1
11031	1234678-HpCDD	35822-46-9	35.1	B	0.0650	5.53	1
11031	OCDD	3268-87-9	627	B	0.0594	11.1	1
11031	2378-TCDF	51207-31-9	0.144	JBQ	0.0428	1.11	1
11031	12378-PeCDF	57117-41-6	0.132	JB	0.0326	5.53	1
11031	23478-PeCDF	57117-31-4	0.359	JB	0.0342	5.53	1
11031	123478-HxCDF	70648-26-9	2.17	JB	0.0774	5.53	1
11031	123678-HxCDF	57117-44-9	0.310	JB	0.0552	5.53	1
11031	123789-HxCDF	72918-21-9	0.283	JBQ	0.0639	5.53	1
11031	234678-HxCDF	60851-34-5	0.473	JB	0.0529	5.53	1
11031	1234678-HpCDF	67562-39-4	8.24	B	0.0272	5.53	1
11031	1234789-HpCDF	55673-89-7	0.723	JB	0.0429	5.53	1
11031	OCDF	39001-02-0	29.4	B	0.0314	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5A-SS-0.0-0.5

LLI Sample # SW 6210691
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:45

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5120 SDG#: DX051-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5A-SS-0.0-0.5

LLI Sample # SW 6210691
LLI Group # 1233934
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:45

Submitted: 02/19/2011 09:30
Reported: 03/15/2011 22:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5120 SDG#: DX051-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/02/2011 20:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402B	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233934
Reported: 03/15/11 at 10:37 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11061162402A	Sample number(s): 6210682-6210689								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11061162402B	Sample number(s): 6210690-6210691								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11062162401A	Sample number(s): 6210681								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11054001	Sample number(s): 6210681-6210691								
2378-TCDD	0.00940 U	0.00940	1.00	ng/kg	111		67-158		
12378-PeCDD	0.0223 J	0.00940	5.00	ng/kg	113		70-142		
123478-HxCDD	0.00940 U	0.00940	5.00	ng/kg	112		70-164		
123678-HxCDD	0.0141 J	0.00960	5.00	ng/kg	109		76-134		
123789-HxCDD	0.00920 U	0.00920	5.00	ng/kg	110		64-162		
1234678-HpCDD	0.119 J	0.0138	5.00	ng/kg	108		70-140		
OCDD	0.303 J	0.0185	10.0	ng/kg	106		78-144		
2378-TCDF	0.0106 J	0.00690	1.00	ng/kg	124		75-158		
12378-PeCDF	0.0154 J	0.00530	5.00	ng/kg	109		80-134		
23478-PeCDF	0.0405 J	0.00530	5.00	ng/kg	110		68-160		
123478-HxCDF	0.0161 J	0.00660	5.00	ng/kg	109		72-134		
123678-HxCDF	0.0176 J	0.00570	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0361 J	0.00650	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0143 J	0.00560	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.0451 J	0.00530	5.00	ng/kg	105		82-122		
1234789-HpCDF	0.0280 J	0.00830	5.00	ng/kg	105		78-138		
OCDF	0.133 J	0.0169	10.0	ng/kg	106		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11061162402A	Sample number(s): 6210682-6210689					BKG: P210672			
28a Moisture Content by 160.3						9.4	9.2	2	20
Batch number: 11061162402B	Sample number(s): 6210690-6210691					BKG: P210678			
28a Moisture Content by 160.3						11.8	12.1	3	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233934
Reported: 03/15/11 at 10:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11062162401A	Sample number(s): 6210681			BKG: P211466					
28a Moisture Content by 160.3						14.8	14.5	2	20
Batch number: 11054001	Sample number(s): 6210681-6210691 UNSPK: 6210687								
2378-TCDD	104	105	67-158	0	25				
12378-PeCDD	104	103	70-142	1	25				
123478-HxCDD	106	103	70-164	3	25				
123678-HxCDD	106	103	76-134	3	25				
123789-HxCDD	107	104	64-162	2	25				
1234678-HpCDD	128	85	70-140	22	25				
OCDD	231 (2)	245 (2)	78-144	2	25				
2378-TCDF	111	111	75-158	0	25				
12378-PeCDF	103	103	80-134	0	25				
23478-PeCDF	104	103	68-160	1	25				
123478-HxCDF	103	104	72-134	1	25				
123678-HxCDF	105	103	84-130	2	25				
123789-HxCDF	104	105	78-130	1	25				
234678-HxCDF	104	104	70-156	0	25				
1234678-HpCDF	105	105	82-122	0	25				
1234789-HpCDF	104	103	78-138	1	25				
OCDF	113	118	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11054001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6210681	95	100	50	72	94	89
6210682	78	81	60	80	79	77
6210683	80	83	54	75	78	72
6210684	78	80	47	65	77	72
6210685	84	83	34	49	84	87
6210686	79	80	37	52	76	73
6210687	81	88	56	76	79	74
6210688	79	87	63	75	78	76
6210689	83	87	56	72	80	79
6210690	83	89	60	79	80	74
6210691	76	85	56	75	75	71
Blank	70	78	68	79	78	75
MS	79	87	63	75	78	76
MSD	83	87	56	72	80	79
OPR	70	76	39	57	74	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233934
Reported: 03/15/11 at 10:37 PM

Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6210681	76	83	73	108	101	86
6210682	94	66	56	92	84	79
6210683	90	65	55	92	86	77
6210684	81	62	52	90	83	72
6210685	49	84	76	91	87	69
6210686	58	70	62	88	83	65
6210687	92	71	65	92	90	79
6210688	85	75	69	92	88	77
6210689	80	75	70	93	89	80
6210690	98	70	62	95	92	81
6210691	93	65	58	91	86	76
Blank	74	56	44	88	73	72
MS	85	75	69	92	88	77
MSD	80	75	70	93	89	80
OPR	52	52	39	85	73	60
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6210681	93	96	96	92	93	107
6210682	83	85	81	76	77	89
6210683	82	85	82	77	78	94
6210684	77	83	79	76	77	92
6210685	76	87	84	81	83	86
6210686	70	78	77	76	75	86
6210687	83	84	85	83	79	96
6210688	78	81	83	81	77	92
6210689	81	84	77	81	79	93
6210690	84	86	87	86	80	99
6210691	78	80	80	78	73	93
Blank	73	72	60	48	78	84
MS	78	81	83	81	77	92
MSD	81	84	77	81	79	93
OPR	67	70	60	48	78	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1233934 sample#6210681-91

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	Perchlorate Confirmation by EPA 6850	*Asbestos EPA 9001 (Analytical NO only)	*Radiologics EPA 9310 Gamma spec only*	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP01-SA5A-QC-021811	2.18.2011	1035	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
DUP01-SA5A-QC-021811	2.18.2011	1035	SOIL	NONE	1-6 inch sleeve			X	X																				FIELD DUPLICATE
SL-049-SA5A-SS-0.0-0.5	2.18.2011	0825	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														FIELD DUPLICATE
SL-049-SA5A-SS-0.0-0.5	2.18.2011	0825	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-052-SA5A-SS-0.0-0.5	2.18.2011	1126	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-052-SA5A-SS-0.0-0.5	2.18.2011	1126	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-053-SA5A-SS-0.0-0.5	2.18.2011	1320	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-053-SA5A-SS-0.0-0.5	2.18.2011	1320	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-096-SA5A-SS-0.0-0.5	2.18.2011	1256	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-096-SA5A-SS-0.0-0.5	2.18.2011	1256	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-098-SA5A-SS-0.0-0.5	2.18.2011	1105	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-098-SA5A-SS-0.0-0.5	2.18.2011	1105	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-099-SA5A-SS-0.0-0.5MS	2.18.2011	1035	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X														MS/MSD
SL-099-SA5A-SS-0.0-0.5MS	2.18.2011	1035	SOIL	NONE	2-6 inch sleeves			X	X																				MS/MSD
SL-100-SA5A-SS-0.0-0.5	2.18.2011	0850	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-100-SA5A-SS-0.0-0.5	2.18.2011	0850	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-101-SA5A-SS-0.0-0.5	2.18.2011	0945	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-101-SA5A-SS-0.0-0.5	2.18.2011	0945	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-102-SA5A-SS-0.0-0.5	2.18.2011	0918	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-102-SA5A-SS-0.0-0.5	2.18.2011	0918	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-241-SA5A-SS-0.0-0.5	2.18.2011	1050	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-241-SA5A-SS-0.0-0.5	2.18.2011	1050	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-242-SA5A-SS-0.0-0.5	2.18.2011	1118	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-242-SA5A-SS-0.0-0.5	2.18.2011	1118	SOIL	NONE	1-6 inch sleeve			X	X																				

Relinquished by: (Signature) — Date/Time: 02/18/2011 / 14:30 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 2/18/11 0930 — Airbill No.(s): 8695 1432 3173, ...3184

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/19/2011
Group Number: 1233935
SDG: DX052
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-102-SA5A-SS-0.0-0.5 Soil	6210692
SL-241-SA5A-SS-0.0-0.5 Soil	6210693
SL-242-SA5A-SS-0.0-0.5 Soil	6210694

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-102-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5A-SS-0.0-0.5

LLI Sample # SW 6210692
LLI Group # 1233935
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 09:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5214 SDG#: DX052-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5A-SS-0.0-0.5

LLI Sample # SW 6210692
LLI Group # 1233935
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 09:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5214 SDG#: DX052-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0217	U	0.0217	1.13	1
11031	12378-PeCDD	40321-76-4	0.152	J	0.0319	5.67	1
11031	123478-HxCDD	39227-28-6	0.241	JBQ	0.0736	5.67	1
11031	123678-HxCDD	57653-85-7	0.881	JB	0.0712	5.67	1
11031	123789-HxCDD	19408-74-3	0.728	JB	0.0626	5.67	1
11031	1234678-HpCDD	35822-46-9	24.4	B	0.0795	5.67	1
11031	OCDD	3268-87-9	352	B	0.0516	11.3	1
11031	2378-TCDF	51207-31-9	0.125	J	0.0431	1.13	1
11031	12378-PeCDF	57117-41-6	0.0683	JBQ	0.0236	5.67	1
11031	23478-PeCDF	57117-31-4	0.291	JB	0.0245	5.67	1
11031	123478-HxCDF	70648-26-9	0.948	JB	0.0926	5.67	1
11031	123678-HxCDF	57117-44-9	0.256	JBQ	0.0622	5.67	1
11031	123789-HxCDF	72918-21-9	0.209	JBQ	0.0518	5.67	1
11031	234678-HxCDF	60851-34-5	0.327	JB	0.0431	5.67	1
11031	1234678-HpCDF	67562-39-4	5.98	B	0.0406	5.67	1
11031	1234789-HpCDF	55673-89-7	0.626	JB	0.0398	5.67	1
11031	OCDF	39001-02-0	24.8	B	0.0272	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-102-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5A-SS-0.0-0.5

LLI Sample # SW 6210692
LLI Group # 1233935
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 09:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5214 SDG#: DX052-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-102-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5A-SS-0.0-0.5

LLI Sample # SW 6210692
LLI Group # 1233935
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 09:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 09:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5214 SDG#: DX052-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/04/2011 05:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402B	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-241-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-241-SA5A-SS-0.0-0.5

LLI Sample # SW 6210693
LLI Group # 1233935
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 09:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5215 SDG#: DX052-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-241-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-241-SA5A-SS-0.0-0.5

LLI Sample # SW 6210693
LLI Group # 1233935
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 09:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5215 SDG#: DX052-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.200	JQ	0.0319	1.16	1
11031	12378-PeCDD	40321-76-4	2.09	J	0.140	5.79	1
11031	123478-HxCDD	39227-28-6	5.21	JB	0.149	5.79	1
11031	123678-HxCDD	57653-85-7	19.3	B	0.151	5.79	1
11031	123789-HxCDD	19408-74-3	10.2	B	0.150	5.79	1
11031	1234678-HpCDD	35822-46-9	487	B	0.204	5.79	1
11031	OCDD	3268-87-9	4,500	B	0.151	11.6	1
11031	2378-TCDF	51207-31-9	1.39		0.124	1.16	1
11650	2378-TCDF-Conf	51207-31-9	1.26		0.0404	1.16	1
11031	12378-PeCDF	57117-41-6	1.59	JB	0.0562	5.79	1
11031	23478-PeCDF	57117-31-4	2.42	JB	0.0578	5.79	1
11031	123478-HxCDF	70648-26-9	3.74	JB	0.129	5.79	1
11031	123678-HxCDF	57117-44-9	3.22	JB	0.0961	5.79	1
11031	123789-HxCDF	72918-21-9	0.798	JB	0.106	5.79	1
11031	234678-HxCDF	60851-34-5	4.47	JB	0.0915	5.79	1
11031	1234678-HpCDF	67562-39-4	76.6	B	0.0752	5.79	1
11031	1234789-HpCDF	55673-89-7	7.09	B	0.100	5.79	1
11031	OCDF	39001-02-0	255	B	0.0463	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-2378-TCDF-Conf	79	24 - 169
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-241-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-241-SA5A-SS-0.0-0.5

LLI Sample # SW 6210693
LLI Group # 1233935
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 09:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5215 SDG#: DX052-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-241-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-241-SA5A-SS-0.0-0.5

LLI Sample # SW 6210693
LLI Group # 1233935
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 10:50

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 09:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5215 SDG#: DX052-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/04/2011 08:10	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11055001	03/16/2011 00:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402B	03/02/2011 19:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-242-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SS-0.0-0.5

LLI Sample # SW 6210694
LLI Group # 1233935
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 09:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5216 SDG#: DX052-16*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-242-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SS-0.0-0.5

LLI Sample # SW 6210694
LLI Group # 1233935
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 09:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5216 SDG#: DX052-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0192	U	0.0192	1.10	1
11031	12378-PeCDD	40321-76-4	0.117	JQ	0.0250	5.52	1
11031	123478-HxCDD	39227-28-6	0.235	JB	0.0554	5.52	1
11031	123678-HxCDD	57653-85-7	0.548	JB	0.0558	5.52	1
11031	123789-HxCDD	19408-74-3	0.666	JB	0.0493	5.52	1
11031	1234678-HpCDD	35822-46-9	15.1	B	0.0686	5.52	1
11031	OCDD	3268-87-9	181	B	0.0581	11.0	1
11031	2378-TCDF	51207-31-9	0.0212	JQ	0.0209	1.10	1
11031	12378-PeCDF	57117-41-6	0.0933	JB	0.0134	5.52	1
11031	23478-PeCDF	57117-31-4	0.124	JBQ	0.0140	5.52	1
11031	123478-HxCDF	70648-26-9	0.155	JB	0.0552	5.52	1
11031	123678-HxCDF	57117-44-9	0.149	JBQ	0.0386	5.52	1
11031	123789-HxCDF	72918-21-9	0.282	JB	0.0333	5.52	1
11031	234678-HxCDF	60851-34-5	0.182	JB	0.0274	5.52	1
11031	1234678-HpCDF	67562-39-4	3.79	JB	0.0399	5.52	1
11031	1234789-HpCDF	55673-89-7	0.351	JBQ	0.0430	5.52	1
11031	OCDF	39001-02-0	14.2	B	0.0243	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-242-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SS-0.0-0.5

LLI Sample # SW 6210694
LLI Group # 1233935
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 09:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5216 SDG#: DX052-16*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-242-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SS-0.0-0.5

LLI Sample # SW 6210694
LLI Group # 1233935
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/18/2011 11:18

Submitted: 02/19/2011 09:30
Reported: 03/18/2011 09:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5216 SDG#: DX052-16*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/04/2011 09:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162402B	03/02/2011 19:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233935
Reported: 03/18/11 at 09:02 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11061162402B	Sample number(s): 6210692-6210694								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11055001	Sample number(s): 6210692-6210694								
2378-TCDD	0.0184 U	0.0184	1.00	ng/kg	92		67-158		
12378-PeCDD	0.0147 U	0.0147	5.00	ng/kg	92		70-142		
123478-HxCDD	0.0169 J	0.0135	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0223 J	0.0137	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0217 J	0.0137	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.162 J	0.0160	5.00	ng/kg	90		70-140		
OCDD	0.458 J	0.0235	10.0	ng/kg	90		78-144		
2378-TCDF	0.0151 U	0.0151	1.00	ng/kg	99		75-158		
2378-TCDF-Conf	0.0221 U	0.0221	1.00	ng/kg					
12378-PeCDF	0.0211 J	0.00810	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0643 J	0.00830	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0232 J	0.0118	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0318 J	0.00870	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0591 J	0.0114	5.00	ng/kg	92		78-130		
234678-HxCDF	0.0278 J	0.00940	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0644 J	0.00660	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0566 J	0.0109	5.00	ng/kg	91		78-138		
OCDF	0.148 J	0.0203	10.0	ng/kg	91		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11061162402B	Sample number(s): 6210692-6210694					BKG: P210678			
28a Moisture Content by 160.3						11.8	12.1	3	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233935
Reported: 03/18/11 at 09:02 AM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11055001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6210692	72	73	34	48	71	64
6210693	80	86	58	74	78	75
6210694	73	75	39	54	73	68
Blank	73	69	56	72	68	62
OPR	72	70	42	59	68	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6210692	55	64	59	84	79	63
6210693	86	73	73	91	88	79
6210694	64	66	63	88	78	71
Blank	85	58	56	96	76	73
OPR	65	61	56	85	74	68
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6210692	69	75	77	77	69	82
6210693	82	83	84	88	80	91
6210694	76	83	78	78	71	83
Blank	75	75	76	74	65	79
OPR	70	73	72	69	66	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6210692	
6210693	79
6210694	
Blank	67
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1233935 sample# 6210692-94

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/7000B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Asbestos EPA 600/R-93/116 (surface soil only)	*Asbestos EPA 9345.1 (subsurface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP01-SA5A-QC-021811	2.18.2011	1035	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														FIELD DUPLICATE
DUP01-SA5A-QC-021811	2.18.2011	1035	SOIL	NONE	1-6 inch sleeve			X	X																				FIELD DUPLICATE
SL-049-SA5A-SS-0.0-0.5	2.18.2011	0825	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-049-SA5A-SS-0.0-0.5	2.18.2011	0825	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-052-SA5A-SS-0.0-0.5	2.18.2011	1128	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-052-SA5A-SS-0.0-0.5	2.18.2011	1128	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-053-SA5A-SS-0.0-0.5	2.18.2011	1320	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-053-SA5A-SS-0.0-0.5	2.18.2011	1320	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-096-SA5A-SS-0.0-0.5	2.18.2011	1256	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-096-SA5A-SS-0.0-0.5	2.18.2011	1256	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-098-SA5A-SS-0.0-0.5	2.18.2011	1105	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-098-SA5A-SS-0.0-0.5	2.18.2011	1105	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-099-SA5A-SS-0.0-0.5MS	2.18.2011	1035	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X														MS/MSD
SL-099-SA5A-SS-0.0-0.5MS	2.18.2011	1035	SOIL	NONE	2-6 inch sleeves			X	X																				MS/MSD
SL-100-SA5A-SS-0.0-0.5	2.18.2011	0850	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-100-SA5A-SS-0.0-0.5	2.18.2011	0850	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-101-SA5A-SS-0.0-0.5	2.18.2011	0945	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-101-SA5A-SS-0.0-0.5	2.18.2011	0945	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-102-SA5A-SS-0.0-0.5	2.18.2011	0918	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-102-SA5A-SS-0.0-0.5	2.18.2011	0918	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-241-SA5A-SS-0.0-0.5	2.18.2011	1050	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-241-SA5A-SS-0.0-0.5	2.18.2011	1050	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-242-SA5A-SS-0.0-0.5	2.18.2011	1118	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-242-SA5A-SS-0.0-0.5	2.18.2011	1118	SOIL	NONE	1-6 inch sleeve			X	X																				

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	02/18/2011 / 14:30		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	02/18/2011 / 0930	8695 1432 3173, ...3184	No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 15, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/22/2011
Group Number: 1234081
SDG: DE087
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-054-SA5A-SS-0.0-0.5 Soil	6211463
SL-055-SA5A-SS-0.0-0.5 Soil	6211464
SL-056-SA5A-SS-0.0-0.5 Soil	6211465
SL-057-SA5A-SS-0.0-0.5 Soil	6211466
SL-058-SA5A-SS-0.0-0.5 Soil	6211467
SL-059-SA5A-SS-0.0-0.5 Soil	6211468
SL-060-SA5A-SS-0.0-0.5 Soil	6211469
SL-061-SA5A-SS-0.0-0.5 Soil	6211470
SL-062-SA5A-SS-0.0-0.5 Soil	6211471
SL-063-SA5A-SS-0.0-0.5 Soil	6211472
SL-064-SA5A-SS-0.0-0.5 Soil	6211473
SL-095-SA5A-SS-0.0-0.5 Soil	6211474
SL-025-SA5A-SB-4.5-5.5 Soil	6211475
SL-028-SA5A-SB-3.5-4.5 Soil	6211476
SL-029-SA5A-SB-3.0-4.0 Soil	6211477
TB-022111 Water	6211479

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Erik J. Frederiksen
Manager

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-054-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SS-0.0-0.5

LLI Sample # SW 6211463
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:45

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE087-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: **SL-054-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SS-0.0-0.5

LLI Sample # SW 6211463
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:45

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE087-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	5.8	U	5.8	5.8		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	590		89	290		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-054-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SS-0.0-0.5

LLI Sample # SW 6211463
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE087-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.22	J	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.32	J	0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.14	J	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	2.9	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.72	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	1.0	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.85	23.2		1
07914	Boron	7440-42-8	2.62	J	1.03	5.81		1
01650	Calcium	7440-70-2	2,350		7.12	23.2		1
01654	Iron	7439-89-6	19,000		5.47	23.2		1
01656	Lithium	7439-93-2	19.6		0.26	2.3		1
01657	Magnesium	7439-95-4	3,890		2.95	11.6		1
06958	Manganese	7439-96-5	357		0.0906	0.581		1
10145	Phosphorus	7723-14-0	352		0.651	11.6		1
01662	Potassium	7440-09-7	3,680		20.9	58.1		1

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Sample Description: **SL-054-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SS-0.0-0.5

LLI Sample # SW 6211463
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE087-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	77.0	J	43.3	116		1
07968	Strontium	7440-24-6	22.5		0.0720	0.581		1
06969	Tin	7440-31-5	2.97	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,070		0.442	1.16		1
10146	Zirconium	7440-67-7	2.05	J	0.976	5.81		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.449		0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.05		0.0903	0.451		2
06126	Barium	7440-39-3	119		0.122	0.451		2
06127	Beryllium	7440-41-7	0.670		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.263		0.0451	0.113		2
06131	Chromium	7440-47-3	20.7		0.135	0.451		2
06132	Cobalt	7440-48-4	6.42		0.0226	0.113		2
06133	Copper	7440-50-8	10.1		0.0745	0.451		2
06135	Lead	7439-92-1	12.6		0.0117	0.226		2
06138	Molybdenum	7439-98-7	1.13		0.0564	0.113		2
06139	Nickel	7440-02-0	15.0		0.113	0.451		2
06141	Selenium	7782-49-2	0.239	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0599	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.287		0.0339	0.113		2
06148	Vanadium	7440-62-2	41.9		0.0248	0.113		2
06149	Zinc	7440-66-6	54.0		0.632	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.97	J	0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.72	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	334		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.37		0.0100	0.0100		1

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Sample Description: **SL-054-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SS-0.0-0.5

LLI Sample # SW 6211463
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:45

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14420 Albemarle Point Place
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SL054 SDG#: DE087-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	14.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011	03:45	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	02/28/2011	04:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011	11:55	Wanda F Oswald	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590028A	03/06/2011	03:08	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110550028A	03/04/2011	07:40	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011	10:55	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110550028A	02/25/2011	07:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011	18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590028A	03/01/2011	03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/01/2011	23:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011	15:30	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011	15:30	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011	15:30	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-054-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SS-0.0-0.5

LLI Sample # SW 6211463
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:45

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE087-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 15:30	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 15:30	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 15:30	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 15:30	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 15:30	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 15:30	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 15:30	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 15:30	David K Beck	2
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 15:30	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 15:30	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 15:30	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 15:30	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 08:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201A	03/02/2011 05:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202A	03/02/2011 19:10	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11056243201A	02/28/2011 14:39	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202A	03/02/2011 14:15	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11054182101A	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401A	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-055-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SS-0.0-0.5

LLI Sample # SW 6211464
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:27

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL055 SDG#: DE087-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-055-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SS-0.0-0.5

LLI Sample # SW 6211464
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:27

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL055 SDG#: DE087-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.79	J	0.39	2.0		1
10138	Anthracene	120-12-7	0.58	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	J	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.95	J	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	3.0		0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	3.3		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	6.6		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.96	J	0.79	2.0		1
10138	Naphthalene	91-20-3	1.0	J	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	12	J	7.1	21		1
10138	Phenanthrene	85-01-8	4.3		0.79	2.0		1
10138	Pyrene	129-00-0	4.9		0.79	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	3.9	U	3.9	3.9		1
10401	Dicamba	1918-00-9	0.69	J	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	210	U	210	300		1
10401	MCPP (Mecoprop)	93-65-2	89	U	89	300		1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20		1
10401	2,4,5-TP	93-72-1	0.46	U	0.46	0.46		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.
Due to interfering peaks on the chromatogram, the values reported for 2,4,5-TP represent the lowest reporting limits attainable.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-055-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SS-0.0-0.5

LLI Sample # SW 6211464
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:27

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL055 SDG#: DE087-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.9		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20		1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0		1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40		1
01363	p,p-DDE	72-55-9	0.086	J	0.078	0.40		1
01363	p,p-DDT	50-29-3	0.24	J	0.078	0.40		1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20		1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40		1
01363	Endrin	72-20-8	0.078	U	0.078	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.078	U	0.078	0.40		1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40		1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0		1
01363	Mirex	2385-85-5	0.17	J	0.078	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	3.6	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	1.8	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	1.8	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		5.82	23.1		1
07914	Boron	7440-42-8	2.50	J	1.03	5.79		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-055-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SS-0.0-0.5

LLI Sample # SW 6211464
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:27

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL055 SDG#: DE087-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,600		7.10	23.1		1
01654	Iron	7439-89-6	20,200		5.45	23.1		1
01656	Lithium	7439-93-2	20.7		0.25	2.3		1
01657	Magnesium	7439-95-4	4,250		2.94	11.6		1
06958	Manganese	7439-96-5	347		0.0903	0.579		1
10145	Phosphorus	7723-14-0	411		0.648	11.6		1
01662	Potassium	7440-09-7	3,980		20.8	57.9		1
01667	Sodium	7440-23-5	70.5	J	43.2	116		1
07968	Strontium	7440-24-6	24.6		0.0718	0.579		1
06969	Tin	7440-31-5	2.59	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,090		0.440	1.16		1
10146	Zirconium	7440-67-7	1.80	J	0.972	5.79		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.106	J	0.0688	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.34		0.0917	0.459		2
06126	Barium	7440-39-3	114		0.124	0.459		2
06127	Beryllium	7440-41-7	0.582		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.208		0.0458	0.115		2
06131	Chromium	7440-47-3	19.8		0.138	0.459		2
06132	Cobalt	7440-48-4	5.75		0.0229	0.115		2
06133	Copper	7440-50-8	11.0		0.0757	0.459		2
06135	Lead	7439-92-1	21.8		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.562		0.0573	0.115		2
06139	Nickel	7440-02-0	13.6		0.115	0.459		2
06141	Selenium	7782-49-2	0.122	J	0.0458	0.459		2
06142	Silver	7440-22-4	0.0528	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.277		0.0344	0.115		2
06148	Vanadium	7440-62-2	34.5		0.0252	0.115		2
06149	Zinc	7440-66-6	57.2		0.642	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0105	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.94	U	0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-055-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SS-0.0-0.5

LLI Sample # SW 6211464
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:27

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL055 SDG#: DE087-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	392	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.47	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011 05:00	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	02/28/2011 21:49	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011 11:55	Wanda F Oswald	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590028A	03/06/2011 05:53	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110540019A	03/02/2011 15:30	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110550028A	03/04/2011 08:24	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011 11:51	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110550028A	02/25/2011 07:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590028A	03/01/2011 03:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110540019A	02/24/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-055-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SS-0.0-0.5

LLI Sample # SW 6211464
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:27

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL055 SDG#: DE087-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/01/2011 23:59	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011 15:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011 15:48	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011 15:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 15:48	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 15:48	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 15:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 15:48	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 15:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 15:48	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 15:48	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 15:48	David K Beck	2
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 15:48	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 15:48	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 15:48	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 15:48	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 08:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201A	03/02/2011 06:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202A	03/02/2011 20:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11056243201A	02/28/2011 14:58	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202A	03/02/2011 14:15	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11054182101A	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401A	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-056-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SS-0.0-0.5

LLI Sample # SW 6211465
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE087-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-056-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SS-0.0-0.5

LLI Sample # SW 6211465
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE087-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.54	J	0.39	2.0		1
10138	Anthracene	120-12-7	0.46	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	2.9		0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	2.3		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	4.0		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	12	J	7.0	21		1
10138	Phenanthrene	85-01-8	2.5		0.78	2.0		1
10138	Pyrene	129-00-0	2.8		0.78	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	4.3	U	4.3	4.3		1
10401	Dicamba	1918-00-9	0.47	J	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	320	U	320	320		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SS-0.0-0.5

LLI Sample # SW 6211465
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE087-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.13	J	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.38	J	0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.11	J	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	1.4	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,500		5.83	23.2		1
07914	Boron	7440-42-8	3.51	J	1.03	5.80		1
01650	Calcium	7440-70-2	2,750		7.11	23.2		1
01654	Iron	7439-89-6	19,600		5.46	23.2		1
01656	Lithium	7439-93-2	21.9		0.26	2.3		1
01657	Magnesium	7439-95-4	4,250		2.94	11.6		1
06958	Manganese	7439-96-5	304		0.0904	0.580		1
10145	Phosphorus	7723-14-0	398		0.649	11.6		1
01662	Potassium	7440-09-7	3,560		20.9	58.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SS-0.0-0.5

LLI Sample # SW 6211465
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE087-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	72.5	J	43.2	116		1
07968	Strontium	7440-24-6	20.2		0.0719	0.580		1
06969	Tin	7440-31-5	2.69	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,030		0.441	1.16		1
10146	Zirconium	7440-67-7	1.24	J	0.974	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.65		0.0937	0.468		2
06126	Barium	7440-39-3	98.4		0.126	0.468		2
06127	Beryllium	7440-41-7	0.583		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.187		0.0468	0.117		2
06131	Chromium	7440-47-3	18.3		0.141	0.468		2
06132	Cobalt	7440-48-4	5.30		0.0234	0.117		2
06133	Copper	7440-50-8	9.70		0.0773	0.468		2
06135	Lead	7439-92-1	10.1		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.609		0.0585	0.117		2
06139	Nickel	7440-02-0	12.3		0.117	0.468		2
06141	Selenium	7782-49-2	0.137	J	0.0468	0.468		2
06142	Silver	7440-22-4	0.0505	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.252		0.0351	0.117		2
06148	Vanadium	7440-62-2	33.0		0.0258	0.117		2
06149	Zinc	7440-66-6	56.4		0.656	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0062	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	375		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.72		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-056-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SS-0.0-0.5

LLI Sample # SW 6211465
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE087-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	14.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011	05:25	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	02/28/2011	22:23	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011	11:55	Wanda F Oswald	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590028A	03/06/2011	06:21	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110550028A	03/04/2011	08:38	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011	12:09	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110550028A	02/25/2011	07:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011	18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590028A	03/01/2011	03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/02/2011	00:11	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011	15:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011	15:51	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011	15:51	David K Beck	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SS-0.0-0.5

LLI Sample # SW 6211465
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE087-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 15:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 15:51	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 15:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 15:51	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 15:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 15:51	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 15:51	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 15:51	David K Beck	2
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 15:51	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 15:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 15:51	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 15:51	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 08:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201A	03/02/2011 06:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202A	03/02/2011 20:47	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11056243201A	02/28/2011 15:04	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202A	03/02/2011 14:15	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11054182101A	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401A	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5A-SS-0.0-0.5

LLI Sample # SW 6211466
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 12:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE087-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: **SL-057-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5A-SS-0.0-0.5

LLI Sample # SW 6211466
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 12:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE087-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	2.8		0.39	2.0		1
10138	Anthracene	120-12-7	3.9		0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	2.6		0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	2.0		0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	8.6		0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	4.9		0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	4.2		0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	17		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	45		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.8	J	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	1.1	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	12	J	7.0	21		1
10138	Phenanthrene	85-01-8	30		0.78	2.0		1
10138	Pyrene	129-00-0	33		0.78	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	0.82	U	0.82	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	350		89	290		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-057-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5A-SS-0.0-0.5

LLI Sample # SW 6211466
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 12:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE087-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.38	J	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.45		0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.11	J	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	4.9		1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	2.5		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,800		5.79	23.0		1
07914	Boron	7440-42-8	1.92	J	1.02	5.75		1
01650	Calcium	7440-70-2	2,960		7.05	23.0		1
01654	Iron	7439-89-6	30,100		5.42	23.0		1
01656	Lithium	7439-93-2	26.0		0.25	2.3		1
01657	Magnesium	7439-95-4	5,050		2.92	11.5		1
06958	Manganese	7439-96-5	399		0.0898	0.575		1
10145	Phosphorus	7723-14-0	505		0.644	11.5		1
01662	Potassium	7440-09-7	3,770		20.7	57.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-057-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5A-SS-0.0-0.5

LLI Sample # SW 6211466
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 12:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE087-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	86.7	J	42.9	115		1
07968	Strontium	7440-24-6	22.1		0.0713	0.575		1
06969	Tin	7440-31-5	2.88	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,160		0.437	1.15		1
10146	Zirconium	7440-67-7	1.40	J	0.967	5.75		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.157	J	0.0690	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.52		0.0921	0.460		2
06126	Barium	7440-39-3	110		0.124	0.460		2
06127	Beryllium	7440-41-7	0.696		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.208		0.0460	0.115		2
06131	Chromium	7440-47-3	26.3		0.138	0.460		2
06132	Cobalt	7440-48-4	6.56		0.0230	0.115		2
06133	Copper	7440-50-8	12.6		0.0759	0.460		2
06135	Lead	7439-92-1	12.7		0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.731		0.0575	0.115		2
06139	Nickel	7440-02-0	17.6		0.115	0.460		2
06141	Selenium	7782-49-2	0.154	J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0667	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.305		0.0345	0.115		2
06148	Vanadium	7440-62-2	41.4		0.0253	0.115		2
06149	Zinc	7440-66-6	80.7		0.644	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0094	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	377		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.84		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-057-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5A-SS-0.0-0.5

LLI Sample # SW 6211466
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 12:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE087-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	14.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011	05:50	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	02/28/2011	22:56	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011	11:55	Wanda F Oswald	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590028A	03/06/2011	06:48	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110550028A	03/04/2011	08:52	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011	12:28	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110550028A	02/25/2011	07:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011	18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590028A	03/01/2011	03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/02/2011	00:15	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011	16:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011	16:00	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011	16:00	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5A-SS-0.0-0.5

LLI Sample # SW 6211466
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 12:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE087-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 16:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 16:00	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 16:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 16:00	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 16:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 16:00	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 16:00	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 16:00	David K Beck	2
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 16:00	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 16:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 16:00	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 16:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 08:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201A	03/02/2011 06:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202A	03/11/2011 15:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11056243201A	02/28/2011 15:23	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202A	03/02/2011 14:15	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11054182101A	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401A	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SS-0.0-0.5

LLI Sample # SW 6211467
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 13:40

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE087-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

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Sample Description: SL-058-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SS-0.0-0.5

LLI Sample # SW 6211467
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 13:40

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE087-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	1.8	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	580		71	210		10
10138	Fluoranthene	206-44-0	2.9		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	95		7.1	21		1
10138	Phenanthrene	85-01-8	2.2		0.78	2.0		1
10138	Pyrene	129-00-0	2.5		0.78	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	5.2	U	5.2	5.2		1
10401	Dicamba	1918-00-9	0.50	J	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	330	U	330	330		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-058-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SS-0.0-0.5

LLI Sample # SW 6211467
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 13:40

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE087-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20		1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0		1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40		1
01363	p,p-DDE	72-55-9	0.087	J	0.078	0.40		1
01363	p,p-DDT	50-29-3	0.22	J	0.078	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.20		1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40		1
01363	Endrin	72-20-8	0.078	U	0.078	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.078	U	0.078	0.40		1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40		1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0		1
01363	Mirex	2385-85-5	0.078	U	0.078	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	2.5	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	1.1	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,400		5.80	23.1		1
07914	Boron	7440-42-8	1.86	J	1.03	5.77		1
01650	Calcium	7440-70-2	2,550		7.07	23.1		1
01654	Iron	7439-89-6	22,800		5.43	23.1		1
01656	Lithium	7439-93-2	24.0		0.25	2.3		1
01657	Magnesium	7439-95-4	4,710		2.93	11.5		1
06958	Manganese	7439-96-5	332		0.0900	0.577		1
10145	Phosphorus	7723-14-0	439		0.646	11.5		1
01662	Potassium	7440-09-7	3,900		20.8	57.7		1

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Sample Description: **SL-058-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SS-0.0-0.5

LLI Sample # SW 6211467
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 13:40

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE087-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	73.4	J	43.0	115		1
07968	Strontium	7440-24-6	20.6		0.0715	0.577		1
06969	Tin	7440-31-5	2.92	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,120		0.438	1.15		1
10146	Zirconium	7440-67-7	1.43	J	0.969	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.124	J	0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.75		0.0923	0.461		2
06126	Barium	7440-39-3	105		0.125	0.461		2
06127	Beryllium	7440-41-7	0.611		0.0185	0.115		2
06128	Cadmium	7440-43-9	0.197		0.0461	0.115		2
06131	Chromium	7440-47-3	23.2		0.138	0.461		2
06132	Cobalt	7440-48-4	5.93		0.0231	0.115		2
06133	Copper	7440-50-8	11.7		0.0761	0.461		2
06135	Lead	7439-92-1	9.40		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.565		0.0577	0.115		2
06139	Nickel	7440-02-0	15.3		0.115	0.461		2
06141	Selenium	7782-49-2	0.146	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0432	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.284		0.0346	0.115		2
06148	Vanadium	7440-62-2	37.3		0.0254	0.115		2
06149	Zinc	7440-66-6	62.8		0.646	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	392		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.85		0.0100	0.0100		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SS-0.0-0.5

LLI Sample # SW 6211467
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 13:40

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE087-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	15.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011	06:15	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	02/28/2011	23:31	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	03/04/2011	21:29	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011	11:55	Wanda F Oswald	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590028A	03/06/2011	07:16	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110550028A	03/04/2011	09:07	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011	12:46	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110550028A	02/25/2011	07:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011	18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590028A	03/01/2011	03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/02/2011	00:19	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011	16:03	David K Beck	2

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Analysis Report

Sample Description: **SL-058-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SS-0.0-0.5

LLI Sample # SW 6211467
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 13:40

Submitted: 02/22/2011 09:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE087-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011 16:03	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011 16:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 16:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 16:03	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 16:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 16:03	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 16:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 16:03	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 16:03	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 16:03	David K Beck	2
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 16:03	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 16:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 16:03	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 16:03	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 08:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201A	03/02/2011 07:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202A	03/02/2011 21:59	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11056243201A	02/28/2011 15:35	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202A	03/02/2011 14:15	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11054182101A	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401A	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-059-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SS-0.0-0.5

LLI Sample # SW 6211468
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE087-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1

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Sample Description: **SL-059-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SS-0.0-0.5

LLI Sample # SW 6211468
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE087-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.51	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.84	J	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	12	J	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3		1
10401	Dalapon	75-99-0	5.3	U	5.3	11		1
10401	2,4-DB	94-82-6	3.4	U	3.4	3.4		1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4		1
10401	Dinoseb	88-85-7	0.96	U	0.96	2.9		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.96	U	0.96	2.0		1
10401	MCPA	94-74-6	230	U	230	230		1
10401	MCPP (Mecoprop)	93-65-2	90	U	90	300		1
10401	2,4,5-T	93-76-5	0.098	U	0.098	0.20		1
10401	2,4,5-TP	93-72-1	0.090	U	0.090	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-059-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SS-0.0-0.5

LLI Sample # SW 6211468
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE087-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.079	U	0.079	0.20		1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20		1
01363	Beta BHC	319-85-7	0.072	U	0.072	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20		1
01363	Chlordane	57-74-9	0.96	U	0.96	4.1		1
01363	p,p-DDD	72-54-8	0.079	U	0.079	0.41		1
01363	p,p-DDE	72-55-9	0.30	J	0.079	0.41		1
01363	p,p-DDT	50-29-3	0.38	J	0.079	0.41		1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20		1
01363	Dieldrin	60-57-1	0.079	U	0.079	0.41		1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20		1
01363	Endosulfan II	33213-65-9	0.079	U	0.079	0.41		1
01363	Endosulfan Sulfate	1031-07-8	0.079	U	0.079	0.41		1
01363	Endrin	72-20-8	0.079	U	0.079	0.41		1
01363	Endrin Aldehyde	7421-93-4	0.14	J	0.079	0.41		1
01363	Endrin Ketone	53494-70-5	0.079	U	0.079	0.41		1
01363	Heptachlor	76-44-8	0.072	U	0.072	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.20		1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0		1
01363	Mirex	2385-85-5	0.079	U	0.079	0.41		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	3.7	J	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	1.7	J	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		5.86	23.3		1
07914	Boron	7440-42-8	1.88	J	1.04	5.83		1
01650	Calcium	7440-70-2	2,570		7.14	23.3		1
01654	Iron	7439-89-6	22,700		5.49	23.3		1
01656	Lithium	7439-93-2	23.8		0.26	2.3		1
01657	Magnesium	7439-95-4	4,680		2.96	11.7		1
06958	Manganese	7439-96-5	333		0.0909	0.583		1
10145	Phosphorus	7723-14-0	470		0.653	11.7		1
01662	Potassium	7440-09-7	4,210		21.0	58.3		1

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Sample Description: **SL-059-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SS-0.0-0.5

LLI Sample # SW 6211468
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE087-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	67.3	J	43.5	117		1
07968	Strontium	7440-24-6	20.8		0.0723	0.583		1
06969	Tin	7440-31-5	2.91	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,080		0.443	1.17		1
10146	Zirconium	7440-67-7	1.52	J	0.979	5.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.122	J	0.0713	0.238		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.33		0.0951	0.475		2
06126	Barium	7440-39-3	105		0.128	0.475		2
06127	Beryllium	7440-41-7	0.570		0.0190	0.119		2
06128	Cadmium	7440-43-9	0.212		0.0475	0.119		2
06131	Chromium	7440-47-3	22.2		0.143	0.475		2
06132	Cobalt	7440-48-4	5.89		0.0238	0.119		2
06133	Copper	7440-50-8	11.6		0.0784	0.475		2
06135	Lead	7439-92-1	10.8		0.0124	0.238		2
06138	Molybdenum	7439-98-7	0.586		0.0594	0.119		2
06139	Nickel	7440-02-0	15.1		0.119	0.475		2
06141	Selenium	7782-49-2	0.157	J	0.0475	0.475		2
06142	Silver	7440-22-4	0.0711	J	0.0143	0.119		2
06145	Thallium	7440-28-0	0.271		0.0357	0.119		2
06148	Vanadium	7440-62-2	36.4		0.0261	0.119		2
06149	Zinc	7440-66-6	63.4		0.666	3.57		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0134	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.96	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	407		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.86		0.0100	0.0100		1

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Sample Description: **SL-059-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SS-0.0-0.5

LLI Sample # SW 6211468
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:20

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SL059 SDG#: DE087-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	16.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011	06:40	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	03/01/2011	00:05	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011	11:55	Wanda F Oswald	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590028A	03/06/2011	07:43	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110550028A	03/04/2011	09:21	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011	13:05	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110550028A	02/25/2011	07:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011	18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590028A	03/01/2011	03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/02/2011	00:23	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011	16:07	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011	16:07	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011	16:07	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-059-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SS-0.0-0.5

LLI Sample # SW 6211468
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE087-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 16:07	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 16:07	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 16:07	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 16:07	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 16:07	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 16:07	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 16:07	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 16:07	David K Beck	2
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 16:07	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 16:07	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 16:07	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 16:07	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 08:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201A	03/02/2011 07:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202A	03/02/2011 22:23	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11056243201A	02/28/2011 15:41	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202A	03/02/2011 14:15	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11054182101A	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401A	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-060-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SS-0.0-0.5

LLI Sample # SW 6211469
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:55

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE087-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-060-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SS-0.0-0.5

LLI Sample # SW 6211469
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:55

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE087-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	1.6	J	0.39	1.9		1
10138	Anthracene	120-12-7	1.3	J	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.3		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.6		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.0	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	4.8		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	11		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.89	J	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	J	0.77	1.9		1
10138	Naphthalene	91-20-3	1.3	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	11	J	7.0	21		1
10138	Phenanthrene	85-01-8	3.9		0.77	1.9		1
10138	Pyrene	129-00-0	7.7		0.77	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	4.6	U	4.6	4.6		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-060-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SS-0.0-0.5

LLI Sample # SW 6211469
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:55

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE087-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	1.2	U	1.2	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	1.2		0.076	0.39		1
01363	p,p-DDT	50-29-3	0.86		0.076	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.15	J	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.083	J	0.076	0.39		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.079	J	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable for chlordane.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.8	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	1.3	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,400		5.60	22.3		1
07914	Boron	7440-42-8	1.92	J	0.992	5.57		1
01650	Calcium	7440-70-2	2,390		6.83	22.3		1
01654	Iron	7439-89-6	23,300		5.25	22.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-060-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SS-0.0-0.5

LLI Sample # SW 6211469
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:55

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE087-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	25.5		0.25	2.2		1
01657	Magnesium	7439-95-4	4,850		2.83	11.1		1
06958	Manganese	7439-96-5	314		0.0869	0.557		1
10145	Phosphorus	7723-14-0	456		0.624	11.1		1
01662	Potassium	7440-09-7	4,020		20.1	55.7		1
01667	Sodium	7440-23-5	72.6	J	41.6	111		1
07968	Strontium	7440-24-6	18.7		0.0691	0.557		1
06969	Tin	7440-31-5	2.97	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,150		0.423	1.11		1
10146	Zirconium	7440-67-7	1.77	J	0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.152	J	0.0688	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.62		0.0918	0.459		2
06126	Barium	7440-39-3	112		0.124	0.459		2
06127	Beryllium	7440-41-7	0.730		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.187		0.0459	0.115		2
06131	Chromium	7440-47-3	25.5		0.138	0.459		2
06132	Cobalt	7440-48-4	6.69		0.0229	0.115		2
06133	Copper	7440-50-8	11.9		0.0757	0.459		2
06135	Lead	7439-92-1	11.2		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.762		0.0574	0.115		2
06139	Nickel	7440-02-0	17.3		0.115	0.459		2
06141	Selenium	7782-49-2	0.159	J	0.0459	0.459		2
06142	Silver	7440-22-4	0.0630	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.292		0.0344	0.115		2
06148	Vanadium	7440-62-2	46.4		0.0252	0.115		2
06149	Zinc	7440-66-6	66.0		0.642	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0132	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	411		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-060-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SS-0.0-0.5

LLI Sample # SW 6211469
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:55

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE087-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.83	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011 07:05	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	03/01/2011 00:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011 11:55	Wanda F Oswald	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590028A	03/06/2011 08:11	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110550028A	03/04/2011 09:35	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011 13:23	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110550028A	02/25/2011 07:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590028A	03/01/2011 03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1

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Sample Description: **SL-060-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SS-0.0-0.5

LLI Sample # SW 6211469
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:55

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE087-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/02/2011 00:27	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011 16:10	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011 16:10	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011 16:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 16:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 16:10	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 16:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 16:10	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 16:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 16:10	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 16:10	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 16:10	David K Beck	2
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 16:10	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 16:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 16:10	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 16:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 09:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201A	03/02/2011 07:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202A	03/02/2011 22:47	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11056243201A	02/28/2011 15:54	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202A	03/02/2011 14:15	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11054182101A	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401A	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401B	03/03/2011 18:45	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-061-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SS-0.0-0.5

LLI Sample # SW 6211470
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:35

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL061 SDG#: DE087-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Butylbenzylphthalate	85-68-7	29	J	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	130	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-061-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SS-0.0-0.5

LLI Sample # SW 6211470
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:35

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL061 SDG#: DE087-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	1.5	J	0.39	2.0		1
10138	Anthracene	120-12-7	1.0	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.94	J	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.84	J	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	11		0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.0	J	0.78	2.0		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	4.3		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	14		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	J	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.82	J	0.78	2.0		1
10138	Naphthalene	91-20-3	1.0	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	11	J	7.1	21		1
10138	Phenanthrene	85-01-8	7.3		0.78	2.0		1
10138	Pyrene	129-00-0	9.5		0.78	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	2.5	U	2.5	2.5		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	92	U	92	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-061-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SS-0.0-0.5

LLI Sample # SW 6211470
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:35

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL061 SDG#: DE087-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20		1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0		1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40		1
01363	p,p-DDE	72-55-9	0.56		0.078	0.40		1
01363	p,p-DDT	50-29-3	0.36	J	0.078	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.20		1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40		1
01363	Endrin	72-20-8	0.078	U	0.078	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.078	U	0.078	0.40		1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40		1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0		1
01363	Mirex	2385-85-5	0.078	U	0.078	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	3.3	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.58	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,900		5.79	23.0		1
07914	Boron	7440-42-8	1.98	J	1.03	5.76		1
01650	Calcium	7440-70-2	2,690		7.06	23.0		1
01654	Iron	7439-89-6	24,700		5.43	23.0		1
01656	Lithium	7439-93-2	27.4		0.25	2.3		1
01657	Magnesium	7439-95-4	5,200		2.93	11.5		1
06958	Manganese	7439-96-5	328		0.0899	0.576		1
10145	Phosphorus	7723-14-0	450		0.645	11.5		1
01662	Potassium	7440-09-7	4,000		20.7	57.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-061-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SS-0.0-0.5

LLI Sample # SW 6211470
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:35

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL061 SDG#: DE087-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	79.2	J	43.0	115		1
07968	Strontium	7440-24-6	20.9		0.0714	0.576		1
06969	Tin	7440-31-5	2.97	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,220		0.438	1.15		1
10146	Zirconium	7440-67-7	1.40	J	0.968	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.154	J	0.0691	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.68		0.0922	0.461		2
06126	Barium	7440-39-3	108		0.124	0.461		2
06127	Beryllium	7440-41-7	0.696		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.197		0.0461	0.115		2
06131	Chromium	7440-47-3	25.9		0.138	0.461		2
06132	Cobalt	7440-48-4	6.36		0.0230	0.115		2
06133	Copper	7440-50-8	12.3		0.0760	0.461		2
06135	Lead	7439-92-1	9.43		0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.528		0.0576	0.115		2
06139	Nickel	7440-02-0	16.6		0.115	0.461		2
06141	Selenium	7782-49-2	0.163	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0482	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.346		0.0346	0.115		2
06148	Vanadium	7440-62-2	41.3		0.0253	0.115		2
06149	Zinc	7440-66-6	72.6		0.645	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0056	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	411		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.65		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-061-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SS-0.0-0.5

LLI Sample # SW 6211470
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:35

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL061 SDG#: DE087-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	14.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011	07:30	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	03/01/2011	01:12	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011	11:55	Wanda F Oswald	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590028A	03/06/2011	08:38	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110550028A	03/04/2011	09:50	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011	13:42	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110550028A	02/25/2011	07:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011	18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590028A	03/01/2011	03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/02/2011	00:31	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011	16:13	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011	16:13	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011	16:13	David K Beck	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-061-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SS-0.0-0.5

LLI Sample # SW 6211470
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:35

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL061 SDG#: DE087-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 16:13	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 16:13	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 16:13	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 16:13	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 16:13	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 16:13	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 16:13	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 16:13	David K Beck	2
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 16:13	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 16:13	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 16:13	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 16:13	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 09:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201A	03/02/2011 07:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202A	03/02/2011 23:11	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11056243201A	02/28/2011 16:25	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202A	03/02/2011 14:15	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11054182101A	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401A	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401B	03/03/2011 18:45	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-062-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5A-SS-0.0-0.5

LLI Sample # SW 6211471
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:05

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL062 SDG#: DE087-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-062-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5A-SS-0.0-0.5

LLI Sample # SW 6211471
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:05

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL062 SDG#: DE087-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	11	J	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	3.4	U	3.4	3.4		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-062-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5A-SS-0.0-0.5

LLI Sample # SW 6211471
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:05

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL062 SDG#: DE087-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.094	J	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.28	J	0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	11		1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	1.5	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		5.73	22.8		1
07914	Boron	7440-42-8	1.53	J	1.01	5.70		1
01650	Calcium	7440-70-2	3,510		6.99	22.8		1
01654	Iron	7439-89-6	27,100		5.37	22.8		1
01656	Lithium	7439-93-2	34.2		0.25	2.3		1
01657	Magnesium	7439-95-4	6,330		2.89	11.4		1
06958	Manganese	7439-96-5	344		0.0889	0.570		1
10145	Phosphorus	7723-14-0	475		0.638	11.4		1
01662	Potassium	7440-09-7	3,270		20.5	57.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-062-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5A-SS-0.0-0.5

LLI Sample # SW 6211471
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:05

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL062 SDG#: DE087-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	91.1	J	42.5	114		1
07968	Strontium	7440-24-6	21.7		0.0707	0.570		1
06969	Tin	7440-31-5	3.05	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,260		0.433	1.14		1
10146	Zirconium	7440-67-7	1.32	J	0.957	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.160	J	0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.41		0.0912	0.456		2
06126	Barium	7440-39-3	106		0.123	0.456		2
06127	Beryllium	7440-41-7	0.810		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.180		0.0456	0.114		2
06131	Chromium	7440-47-3	30.0		0.137	0.456		2
06132	Cobalt	7440-48-4	8.23		0.0228	0.114		2
06133	Copper	7440-50-8	15.2		0.0752	0.456		2
06135	Lead	7439-92-1	13.0		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.591		0.0570	0.114		2
06139	Nickel	7440-02-0	20.6		0.114	0.456		2
06141	Selenium	7782-49-2	0.247	J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0599	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.329		0.0342	0.114		2
06148	Vanadium	7440-62-2	45.8		0.0251	0.114		2
06149	Zinc	7440-66-6	75.3		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0105	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	321		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.58		0.0100	0.0100		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-062-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5A-SS-0.0-0.5

LLI Sample # SW 6211471
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:05

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL062 SDG#: DE087-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	14.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011	07:55	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	03/01/2011	01:46	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011	11:55	Wanda F Oswald	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590028A	03/06/2011	09:06	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110550028A	03/04/2011	10:04	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011	14:00	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110550028A	02/25/2011	07:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011	18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590028A	03/01/2011	03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/02/2011	00:35	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011	16:16	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011	16:16	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011	16:16	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-062-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5A-SS-0.0-0.5

LLI Sample # SW 6211471
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:05

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL062 SDG#: DE087-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 16:16	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 16:16	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 16:16	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 16:16	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 16:16	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 16:16	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 16:16	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 16:16	David K Beck	2
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 16:16	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 16:16	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 16:16	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 16:16	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 09:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201A	03/02/2011 08:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202A	03/02/2011 23:35	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11056243201A	02/28/2011 16:31	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202A	03/02/2011 14:15	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11054182101A	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401A	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401B	03/03/2011 18:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-063-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5A-SS-0.0-0.5

LLI Sample # SW 6211472
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:58

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE087-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: SL-063-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5A-SS-0.0-0.5

LLI Sample # SW 6211472
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:58

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE087-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	1.3	J	0.39	2.0		1
10138	Anthracene	120-12-7	0.57	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.8	J	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	3.7		0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	3.5		0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	3.7		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	5.8		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.90	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	12	J	7.0	21		1
10138	Phenanthrene	85-01-8	2.9		0.78	2.0		1
10138	Pyrene	129-00-0	4.8		0.78	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	28		0.73	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	630		89	290		1
10401	MCPP (Mecoprop)	93-65-2	150	U	150	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1
	Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.9		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-063-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5A-SS-0.0-0.5

LLI Sample # SW 6211472
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:58

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE087-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	1.6	U	1.6	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.37	J	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.70		0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.16	J	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable for chlordane.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,900		5.84	23.2		1
07914	Boron	7440-42-8	1.86	J	1.03	5.80		1
01650	Calcium	7440-70-2	2,800		7.12	23.2		1
01654	Iron	7439-89-6	24,900		5.47	23.2		1

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Sample Description: **SL-063-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5A-SS-0.0-0.5

LLI Sample # SW 6211472
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:58

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE087-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	29.9		0.26	2.3		1
01657	Magnesium	7439-95-4	5,310		2.95	11.6		1
06958	Manganese	7439-96-5	344		0.0905	0.580		1
10145	Phosphorus	7723-14-0	535		0.650	11.6		1
01662	Potassium	7440-09-7	4,070		20.9	58.0		1
01667	Sodium	7440-23-5	77.8	J	43.3	116		1
07968	Strontium	7440-24-6	20.8		0.0720	0.580		1
06969	Tin	7440-31-5	3.17	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,200		0.441	1.16		1
10146	Zirconium	7440-67-7	1.50	J	0.975	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.115	J	0.0696	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.66		0.0929	0.464		2
06126	Barium	7440-39-3	109		0.125	0.464		2
06127	Beryllium	7440-41-7	0.686		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.218		0.0464	0.116		2
06131	Chromium	7440-47-3	25.4		0.139	0.464		2
06132	Cobalt	7440-48-4	6.74		0.0232	0.116		2
06133	Copper	7440-50-8	12.5		0.0766	0.464		2
06135	Lead	7439-92-1	14.8		0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.757		0.0580	0.116		2
06139	Nickel	7440-02-0	18.4		0.116	0.464		2
06141	Selenium	7782-49-2	0.158	J	0.0464	0.464		2
06142	Silver	7440-22-4	0.0772	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.291		0.0348	0.116		2
06148	Vanadium	7440-62-2	41.1		0.0255	0.116		2
06149	Zinc	7440-66-6	72.2		0.650	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0138	J	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.94	U	0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	346		10.0	10.0		1

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Sample Description: **SL-063-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5A-SS-0.0-0.5

LLI Sample # SW 6211472
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL063 SDG#: DE087-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.59	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011 08:20	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	03/01/2011 02:20	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011 11:55	Wanda F Oswald	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590028A	03/06/2011 09:34	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110540019A	03/02/2011 15:36	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110550028A	03/04/2011 10:19	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011 14:19	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110550028A	02/25/2011 07:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590028A	03/01/2011 03:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110540019A	02/24/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1

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Sample Description: **SL-063-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5A-SS-0.0-0.5

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SL063 SDG#: DE087-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/02/2011 00:39	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011 16:19	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011 16:19	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011 16:19	David K Beck	2
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 16:19	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 16:19	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 16:19	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 16:19	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 16:19	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 16:19	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 16:19	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 16:19	David K Beck	2
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 16:19	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 16:19	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 16:19	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 16:19	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 09:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201A	03/02/2011 08:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202A	03/02/2011 23:59	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11056243201A	02/28/2011 16:50	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202A	03/02/2011 14:15	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11054182101B	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401B	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401B	03/03/2011 18:45	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SS-0.0-0.5

LLI Sample # SW 6211473
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:35

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL064 SDG#: DE087-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-064-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SS-0.0-0.5

LLI Sample # SW 6211473
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:35

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL064 SDG#: DE087-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.95	J	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.46	J	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.5		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	1.6	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	26		7.0	21		1
10138	Fluoranthene	206-44-0	2.1		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	12	J	7.0	21		1
10138	Phenanthrene	85-01-8	1.2	J	0.77	1.9		1
10138	Pyrene	129-00-0	1.6	J	0.77	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	3.8	U	3.8	3.8		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: **SL-064-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SS-0.0-0.5

LLI Sample # SW 6211473
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:35

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL064 SDG#: DE087-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.21		0.039	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.39		1
01363	p,p-DDE	72-55-9	0.15	J	0.077	0.39		1
01363	p,p-DDT	50-29-3	0.35	J	0.077	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.39		1
01363	Endrin	72-20-8	0.077	U	0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.10	J	0.077	0.39		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.39		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.39		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.54	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.72	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,300		5.72	22.7		1
07914	Boron	7440-42-8	1.88	J	1.01	5.69		1
01650	Calcium	7440-70-2	3,040		6.97	22.7		1
01654	Iron	7439-89-6	23,300		5.36	22.7		1
01656	Lithium	7439-93-2	28.2		0.25	2.3		1
01657	Magnesium	7439-95-4	5,220		2.89	11.4		1
06958	Manganese	7439-96-5	318		0.0887	0.569		1
10145	Phosphorus	7723-14-0	583		0.637	11.4		1
01662	Potassium	7440-09-7	4,000		20.5	56.9		1

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Sample Description: SL-064-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SS-0.0-0.5

LLI Sample # SW 6211473
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL064 SDG#: DE087-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	65.6	J	42.4	114		1
07968	Strontium	7440-24-6	18.3		0.0705	0.569		1
06969	Tin	7440-31-5	3.00	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,080		0.432	1.14		1
10146	Zirconium	7440-67-7	1.29	J	0.955	5.69		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.118	J	0.0676	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.90		0.0901	0.451		2
06126	Barium	7440-39-3	92.9		0.122	0.451		2
06127	Beryllium	7440-41-7	0.601		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.233		0.0451	0.113		2
06131	Chromium	7440-47-3	22.4		0.135	0.451		2
06132	Cobalt	7440-48-4	5.94		0.0225	0.113		2
06133	Copper	7440-50-8	10.8		0.0743	0.451		2
06135	Lead	7439-92-1	10.0		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.529		0.0563	0.113		2
06139	Nickel	7440-02-0	15.1		0.113	0.451		2
06141	Selenium	7782-49-2	0.120	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0517	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.270		0.0338	0.113		2
06148	Vanadium	7440-62-2	36.1		0.0248	0.113		2
06149	Zinc	7440-66-6	62.6		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0099	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	386		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.20		0.0100	0.0100		1

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Sample Description: **SL-064-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SS-0.0-0.5

LLI Sample # SW 6211473
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:35

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14420 Albemarle Point Place
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SL064 SDG#: DE087-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	13.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011	08:45	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	03/01/2011	02:54	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011	11:55	Wanda F Oswald	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590028A	03/06/2011	10:01	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110550028A	03/04/2011	10:33	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011	14:37	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110550028A	02/25/2011	07:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011	18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590028A	03/01/2011	03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/02/2011	00:43	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011	16:22	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011	16:22	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011	16:22	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-064-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SS-0.0-0.5

LLI Sample # SW 6211473
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:35

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL064 SDG#: DE087-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 16:22	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 16:22	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 16:22	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 16:22	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 16:22	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 16:22	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 16:22	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 16:22	David K Beck	2
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 16:22	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 16:22	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 16:22	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 16:22	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 09:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201B	03/02/2011 09:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202B	03/03/2011 00:23	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11056243201A	02/28/2011 17:02	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201B	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202B	03/02/2011 14:15	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11054182101B	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401B	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401B	03/03/2011 18:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-095-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5A-SS-0.0-0.5

LLI Sample # SW 6211474
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 15:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE087-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	82	U	82	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	82	U	82	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	82	U	82	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-095-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5A-SS-0.0-0.5

LLI Sample # SW 6211474
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 15:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE087-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.0		1
10138	Acenaphthylene	208-96-8	0.97	J	0.41	2.0		1
10138	Anthracene	120-12-7	1.9	J	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.9	J	0.82	2.0		1
10138	Benzo(a)pyrene	50-32-8	3.7		0.82	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	13		0.82	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	5.0		0.82	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	4.9		0.82	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22		1
10138	Di-n-butylphthalate	84-74-2	7.4	U	7.4	22		1
10138	Chrysene	218-01-9	13		0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	1.7	J	0.82	2.0		1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22		1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41		7.4	22		1
10138	Fluoranthene	206-44-0	8.2		0.82	2.0		1
10138	Fluorene	86-73-7	0.82	U	0.82	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.5	J	0.82	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.82	U	0.82	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.83	J	0.82	2.0		1
10138	Naphthalene	91-20-3	1.6	J	0.82	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.0		1
10138	Di-n-octylphthalate	117-84-0	13	J	7.4	22		1
10138	Phenanthrene	85-01-8	5.3		0.82	2.0		1
10138	Pyrene	129-00-0	5.0		0.82	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.4		1
10401	Dalapon	75-99-0	5.4	U	5.4	11		1
10401	2,4-DB	94-82-6	3.6	U	3.6	3.6		1
10401	Dicamba	1918-00-9	0.49	U	0.49	1.5		1
10401	Dinoseb	88-85-7	0.98	U	0.98	2.9		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.98	U	0.98	2.1		1
10401	MCPA	94-74-6	540		93	310		1
10401	MCPP (Mecoprop)	93-65-2	92	U	92	310		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21		1
10401	2,4,5-TP	93-72-1	0.092	U	0.092	0.21		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-095-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5A-SS-0.0-0.5

LLI Sample # SW 6211474
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 15:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE087-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.081	U	0.081	0.20		1
01363	Alpha BHC	319-84-6	0.042	U	0.042	0.20		1
01363	Beta BHC	319-85-7	0.26		0.074	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.15	J	0.042	0.20		1
01363	Chlordane	57-74-9	2.1	U	2.1	4.2		1
01363	p,p-DDD	72-54-8	0.23	U	0.23	0.42		1
01363	p,p-DDE	72-55-9	1.6		0.081	0.42		1
01363	p,p-DDT	50-29-3	5.3		0.40	2.1		5
01363	Delta BHC	319-86-8	0.044	U	0.044	0.20		1
01363	Dieldrin	60-57-1	0.45		0.081	0.42		1
01363	Endosulfan I	959-98-8	0.054	U	0.054	0.20		1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.42		1
01363	Endosulfan Sulfate	1031-07-8	0.081	U	0.081	0.42		1
01363	Endrin	72-20-8	0.081	U	0.081	0.42		1
01363	Endrin Aldehyde	7421-93-4	0.19	J	0.081	0.42		1
01363	Endrin Ketone	53494-70-5	0.24	J	0.081	0.42		1
01363	Heptachlor	76-44-8	0.074	U	0.074	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.053	J	0.042	0.20		1
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.0		1
01363	Mirex	2385-85-5	0.20	J	0.081	0.42		1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable for chlordane, 4,4'-DDD, and endosulfan II. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	2.5	U	2.5	8.1		2
10225	Aroclor 5442	12642-23-8	2.5	U	2.5	8.1		2
10225	Aroclor 5460	11126-42-4	12		2.5	8.1		2
10225	PCB-1016	12674-11-2	0.81	U	0.81	4.2		2
10225	PCB-1221	11104-28-2	0.81	U	0.81	4.2		2
10225	PCB-1232	11141-16-5	0.81	U	0.81	4.2		2
10225	PCB-1242	53469-21-9	0.81	U	0.81	4.2		2
10225	PCB-1248	12672-29-6	0.81	U	0.81	4.2		2
10225	PCB-1254	11097-69-1	4.9		0.81	4.2		2
10225	PCB-1260	11096-82-5	5.5		0.96	4.2		2
10225	PCB-1262	37324-23-5	0.81	U	0.81	4.2		2
10225	PCB-1268	11100-14-4	0.81	U	0.81	4.2		2
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,700		5.99	23.8		1
07914	Boron	7440-42-8	2.00	J	1.06	5.96		1
01650	Calcium	7440-70-2	3,380		7.30	23.8		1
01654	Iron	7439-89-6	20,400		5.61	23.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-095-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5A-SS-0.0-0.5

LLI Sample # SW 6211474
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 15:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE087-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	20.5		0.26	2.4		1
01657	Magnesium	7439-95-4	4,120		3.03	11.9		1
06958	Manganese	7439-96-5	299		0.0929	0.596		1
10145	Phosphorus	7723-14-0	435		0.667	11.9		1
01662	Potassium	7440-09-7	3,170		21.4	59.6		1
01667	Sodium	7440-23-5	70.0	J	44.4	119		1
07968	Strontium	7440-24-6	23.8		0.0739	0.596		1
06969	Tin	7440-31-5	2.82	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,010		0.453	1.19		1
10146	Zirconium	7440-67-7	1.32	J	1.00	5.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0729	0.243		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.76		0.0972	0.486		2
06126	Barium	7440-39-3	106		0.131	0.486		2
06127	Beryllium	7440-41-7	0.583		0.0194	0.121		2
06128	Cadmium	7440-43-9	0.256		0.0486	0.121		2
06131	Chromium	7440-47-3	20.6		0.146	0.486		2
06132	Cobalt	7440-48-4	6.06		0.0243	0.121		2
06133	Copper	7440-50-8	12.0		0.0802	0.486		2
06135	Lead	7439-92-1	29.4		0.0126	0.243		2
06138	Molybdenum	7439-98-7	0.709		0.0607	0.121		2
06139	Nickel	7440-02-0	13.9		0.121	0.486		2
06141	Selenium	7782-49-2	0.157	J	0.0486	0.486		2
06142	Silver	7440-22-4	0.0876	J	0.0146	0.121		2
06145	Thallium	7440-28-0	0.262		0.0364	0.121		2
06148	Vanadium	7440-62-2	37.4		0.0267	0.121		2
06149	Zinc	7440-66-6	72.6		0.680	3.64		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0232	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.98	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0	U	11.0	36.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.25	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	399		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-095-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5A-SS-0.0-0.5

LLI Sample # SW 6211474
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 15:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE087-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.78	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	18.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011 09:10	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	03/01/2011 03:28	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011 11:55	Wanda F Oswald	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590028A	03/06/2011 11:23	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110550028A	03/04/2011 10:47	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110550028A	03/08/2011 11:09	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011 14:56	Richard A Shober	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110550028A	02/25/2011 07:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590028A	03/01/2011 03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1

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Sample Description: **SL-095-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5A-SS-0.0-0.5

LLI Sample # SW 6211474
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 15:00

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE087-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/02/2011 00:47	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011 16:25	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011 16:25	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011 16:25	David K Beck	2
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 16:25	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 16:25	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 16:25	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 16:25	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 16:25	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 16:25	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 16:25	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 16:25	David K Beck	2
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 16:25	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 16:25	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 16:25	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 16:25	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 09:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201B	03/02/2011 09:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202B	03/03/2011 01:59	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11056243201A	02/28/2011 17:09	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201B	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202B	03/02/2011 14:15	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11054182101B	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401B	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401B	03/03/2011 18:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-025-SA5A-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SB-4.5-5.5

LLI Sample # SW 6211475
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:44

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL025 SDG#: DE087-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.2		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.89
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.89
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.89
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.89
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.89
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.89
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.89
06192	Methylene Chloride	75-09-2	1.1	J	0.25	4.1		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.89

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Sample Description: **SL-025-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SB-4.5-5.5

LLI Sample # SW 6211475
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:44

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL025 SDG#: DE087-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.89
06192	Toluene	108-88-3	0.1	J	0.08	4.1		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		19.75
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.1	U	19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SB-4.5-5.5

LLI Sample # SW 6211475
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:44

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL025 SDG#: DE087-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.6	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-025-SA5A-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SB-4.5-5.5

LLI Sample # SW 6211475
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:44

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL025 SDG#: DE087-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.13
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: **SL-025-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SB-4.5-5.5

LLI Sample # SW 6211475
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:44

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL025 SDG#: DE087-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.48	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,500		5.60	22.3		1
07914	Boron	7440-42-8	0.991	U	0.991	5.57		1
01650	Calcium	7440-70-2	1,100		6.83	22.3		1
01654	Iron	7439-89-6	15,000		5.24	22.3		1
01656	Lithium	7439-93-2	11.8		0.24	2.2		1
01657	Magnesium	7439-95-4	2,660		2.83	11.1		1

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Sample Description: **SL-025-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SB-4.5-5.5

LLI Sample # SW 6211475
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:44

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL025 SDG#: DE087-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	321		0.0868	0.557		1
10145	Phosphorus	7723-14-0	85.5		0.623	11.1		1
01662	Potassium	7440-09-7	683		20.0	55.7		1
01667	Sodium	7440-23-5	354		41.5	111		1
07968	Strontium	7440-24-6	11.9		0.0690	0.557		1
06969	Tin	7440-31-5	2.57	J	1.11	11.1		1
06970	Titanium	7440-32-6	839		0.423	1.11		1
10146	Zirconium	7440-67-7	1.15	J	0.935	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0907	J	0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.68		0.0899	0.450		2
06126	Barium	7440-39-3	55.2		0.121	0.450		2
06127	Beryllium	7440-41-7	0.517		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0450	U	0.0450	0.112		2
06131	Chromium	7440-47-3	15.9		0.135	0.450		2
06132	Cobalt	7440-48-4	12.3		0.0225	0.112		2
06133	Copper	7440-50-8	3.82		0.0742	0.450		2
06135	Lead	7439-92-1	6.23		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.433		0.0562	0.112		2
06139	Nickel	7440-02-0	6.48		0.112	0.450		2
06141	Selenium	7782-49-2	0.100	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0242	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.158		0.0337	0.112		2
06148	Vanadium	7440-62-2	31.2		0.0247	0.112		2
06149	Zinc	7440-66-6	25.9		0.630	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: **SL-025-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SB-4.5-5.5

LLI Sample # SW 6211475
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:44

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL025 SDG#: DE087-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	413	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.21	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-025-SA5A-SB-5.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011 07:47	Holly Berry	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110541AA	02/23/2011 16:26	Jason M Long	19.75
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105323736	02/22/2011 21:35	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105323736	02/22/2011 21:48	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105323736	02/22/2011 21:48	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105323736	02/22/2011 21:33	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11062SLD026	03/04/2011 15:53	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011 09:36	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	03/01/2011 04:02	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11062SLD026	03/03/2011 15:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011 11:55	Wanda F Oswald	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34A	03/02/2011 11:56	Marie D John	20.13
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201105323736	02/22/2011 21:32	Lois E Hiltz	n.a.

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Sample Description: **SL-025-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SB-4.5-5.5

LLI Sample # SW 6211475
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:44

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SL025 SDG#: DE087-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	20a Energetics by 8330A	SW-846 8330A	1	110600010A	03/05/2011 01:02	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110540024A	02/25/2011 19:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011 15:14	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011 18:15	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110540024A	02/24/2011 09:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110600010A	03/01/2011 15:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 03:21	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110560023A	02/25/2011 20:58	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110550001A	02/24/2011 15:40	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 01:30	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110550001A	02/24/2011 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110560023A	02/25/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/02/2011 00:58	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011 16:28	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011 16:28	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011 16:28	David K Beck	2
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 16:28	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 16:28	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 16:28	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 16:28	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 16:28	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 16:28	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 16:28	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 16:28	David K Beck	2
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 16:28	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 16:28	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 16:28	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SB-4.5-5.5

LLI Sample # SW 6211475
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:44

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL025 SDG#: DE087-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 16:28	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201B	03/02/2011 04:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11059621201B	03/02/2011 04:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202B	03/03/2011 02:23	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11056243201A	02/28/2011 17:21	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11059102201A	03/01/2011 10:14	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201B	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202B	03/02/2011 14:15	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11059102201A	02/28/2011 16:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11054182101B	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401B	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11068162401A	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-028-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SB-3.5-4.5

LLI Sample # SW 6211476
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL028 SDG#: DE087-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.93
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.93
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.93
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.93
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.93
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.1		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.93
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.93
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.93
06192	Methylene Chloride	75-09-2	1.2	J	0.25	4.1		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.93

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SB-3.5-4.5

LLI Sample # SW 6211476
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL028 SDG#: DE087-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.93
06192	Toluene	108-88-3	0.1	J	0.08	4.1		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.93
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.06
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.6	U	18.6	37.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SB-3.5-4.5

LLI Sample # SW 6211476
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL028 SDG#: DE087-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SB-3.5-4.5

LLI Sample # SW 6211476
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL028 SDG#: DE087-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.37
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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Sample Description: **SL-028-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SB-3.5-4.5

LLI Sample # SW 6211476
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL028 SDG#: DE087-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	890	U	890	2,200		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.48	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,900		5.49	21.8		1

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Sample Description: **SL-028-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SB-3.5-4.5

LLI Sample # SW 6211476
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL028 SDG#: DE087-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	0.972	U	0.972	5.46		1
01650	Calcium	7440-70-2	1,630		6.69	21.8		1
01654	Iron	7439-89-6	20,600		5.14	21.8		1
01656	Lithium	7439-93-2	18.2		0.24	2.2		1
01657	Magnesium	7439-95-4	3,720		2.77	10.9		1
06958	Manganese	7439-96-5	220		0.0852	0.546		1
10145	Phosphorus	7723-14-0	76.1		0.611	10.9		1
01662	Potassium	7440-09-7	1,060		19.7	54.6		1
01667	Sodium	7440-23-5	416		40.7	109		1
07968	Strontium	7440-24-6	15.5		0.0677	0.546		1
06969	Tin	7440-31-5	3.06	J	1.09	10.9		1
06970	Titanium	7440-32-6	962		0.415	1.09		1
10146	Zirconium	7440-67-7	1.42	J	0.917	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0922	J	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.47		0.0865	0.432		2
06126	Barium	7440-39-3	69.0		0.117	0.432		2
06127	Beryllium	7440-41-7	0.637		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0719	J	0.0432	0.108		2
06131	Chromium	7440-47-3	22.5		0.130	0.432		2
06132	Cobalt	7440-48-4	5.27		0.0216	0.108		2
06133	Copper	7440-50-8	5.73		0.0714	0.432		2
06135	Lead	7439-92-1	6.16		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.578		0.0541	0.108		2
06139	Nickel	7440-02-0	10.3		0.108	0.432		2
06141	Selenium	7782-49-2	0.0929	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0456	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.193		0.0324	0.108		2
06148	Vanadium	7440-62-2	37.6		0.0238	0.108		2
06149	Zinc	7440-66-6	35.5		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0042	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.22	1.1		1

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Sample Description: SL-028-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SB-3.5-4.5

LLI Sample # SW 6211476
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL028 SDG#: DE087-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	407		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-028-SA5B-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011	08:10	Holly Berry	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110541AA	02/23/2011	16:45	Jason M Long	23.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105323736	02/22/2011	21:40	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105323736	02/22/2011	21:48	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105323736	02/22/2011	21:48	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105323736	02/22/2011	21:38	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11062SLD026	03/04/2011	16:42	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011	10:01	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	03/01/2011	04:36	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11062SLD026	03/03/2011	15:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011	11:55	Wanda F Oswald	1

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Sample Description: **SL-028-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SB-3.5-4.5

LLI Sample # SW 6211476
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL028 SDG#: DE087-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34A	03/02/2011 12:34	Marie D John	24.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201105323736	02/22/2011 21:37	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110600010A	03/05/2011 01:45	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110540024A	02/25/2011 19:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/08/2011 15:33	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011 18:15	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110540024A	02/24/2011 09:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110600010A	03/01/2011 15:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 03:46	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110560023A	02/25/2011 21:13	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110550001A	02/24/2011 17:25	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 02:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110550001A	02/24/2011 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110560023A	02/25/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/02/2011 01:02	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011 16:37	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011 16:37	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011 16:37	David K Beck	2
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 16:37	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 16:37	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 16:37	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 16:37	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 16:37	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 16:37	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 16:37	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 16:37	David K Beck	2

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Sample Description: **SL-028-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SB-3.5-4.5

LLI Sample # SW 6211476
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:20

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL028 SDG#: DE087-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 16:37	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 16:37	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 16:37	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 16:37	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 09:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201B	03/02/2011 04:50	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11059621201B	03/02/2011 04:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202B	03/03/2011 02:47	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11056243201A	02/28/2011 17:33	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11059102201A	03/01/2011 10:18	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201B	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202B	03/02/2011 14:15	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11059102201A	02/28/2011 16:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11054182101B	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401B	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11068162401A	03/09/2011 19:05	Scott W Freisher	1

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Sample Description: **SL-029-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SB-3.0-4.0

LLI Sample # SW 6211477
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:48

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL029 SDG#: DE087-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.0	U	6.0	7.1		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.6		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6		0.83
06192	Bromochloromethane	74-97-5	0.29	U	0.29	3.6		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6		0.83
06192	Bromoform	75-25-2	0.36	U	0.36	3.6		0.83
06192	Bromomethane	74-83-9	0.22	U	0.22	3.6		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.1		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6		0.83
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6		0.83
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.6		0.83
06192	Carbon Tetrachloride	56-23-5	0.12	U	0.12	3.6		0.83
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.6		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.6		0.83
06192	Chloromethane	74-87-3	0.29	U	0.29	3.6		0.83
06192	2-Chlorotoluene	95-49-8	0.12	U	0.12	3.6		0.83
06192	4-Chlorotoluene	106-43-4	0.12	U	0.12	3.6		0.83
06192	Chlorotrifluoroethene	79-38-9	0.45	U	0.45	4.5		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.62	U	0.62	3.6		0.83
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6		0.83
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6		0.83
06192	Dibromomethane	74-95-3	0.21	U	0.21	3.6		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.6		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6		0.83
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.6		0.83
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.6		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6		0.83
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6		0.83
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.6		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6		0.83
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.6		0.83
06192	Freon 113	76-13-1	0.1	U	0.1	3.6		0.83
06192	Freon 133a	75-88-7	0.45	U	0.45	4.5		0.83
06192	Hexachlorobutadiene	87-68-3	0.12	U	0.12	3.6		0.83
06192	2-Hexanone	591-78-6	1.4	U	1.4	7.1		0.83
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6		0.83
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.6		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.1		0.83
06192	Methylene Chloride	75-09-2	0.75	J	0.21	3.6		0.83
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6		0.83

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Sample Description: SL-029-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SB-3.0-4.0

LLI Sample # SW 6211477
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:48

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL029 SDG#: DE087-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.6		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.6		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.20	U	0.20	3.6		0.83
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6		0.83
06192	Toluene	108-88-3	0.08	J	0.07	3.6		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.12	U	0.12	3.6		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.24	U	0.24	3.6		0.83
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.6		0.83
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.29	U	0.29	3.6		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6		0.83
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6		0.83
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.6		0.83
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		21.29
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.9	U	17.9	35.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: **SL-029-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SB-3.0-4.0

LLI Sample # SW 6211477
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:48

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL029 SDG#: DE087-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1

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Sample Description: **SL-029-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SB-3.0-4.0

LLI Sample # SW 6211477
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:48

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL029 SDG#: DE087-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.11
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SB-3.0-4.0

LLI Sample # SW 6211477
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SL029 SDG#: DE087-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	1.5		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	5.1		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.59	J	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,500		5.20	20.7		1
07914	Boron	7440-42-8	0.920	U	0.920	5.17		1

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Sample Description: **SL-029-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SB-3.0-4.0

LLI Sample # SW 6211477
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:48

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL029 SDG#: DE087-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	1,900		6.34	20.7		1
01654	Iron	7439-89-6	22,200		4.87	20.7		1
01656	Lithium	7439-93-2	22.2		0.23	2.1		1
01657	Magnesium	7439-95-4	4,390		2.63	10.3		1
06958	Manganese	7439-96-5	162		0.0806	0.517		1
10145	Phosphorus	7723-14-0	172		0.579	10.3		1
01662	Potassium	7440-09-7	1,780		18.6	51.7		1
01667	Sodium	7440-23-5	673		38.6	103		1
07968	Strontium	7440-24-6	22.8		0.0641	0.517		1
06969	Tin	7440-31-5	2.73	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,150		0.393	1.03		1
10146	Zirconium	7440-67-7	1.65	J	0.868	5.17		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103	J	0.0626	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.78		0.0835	0.418		2
06126	Barium	7440-39-3	146		0.113	0.418		2
06127	Beryllium	7440-41-7	0.662		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.0423	J	0.0418	0.104		2
06131	Chromium	7440-47-3	25.8		0.125	0.418		2
06132	Cobalt	7440-48-4	4.12		0.0209	0.104		2
06133	Copper	7440-50-8	7.22		0.0689	0.418		2
06135	Lead	7439-92-1	7.82		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.839		0.0522	0.104		2
06139	Nickel	7440-02-0	9.65		0.104	0.418		2
06141	Selenium	7782-49-2	0.146	J	0.0418	0.418		2
06142	Silver	7440-22-4	0.0318	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.408		0.0313	0.104		2
06148	Vanadium	7440-62-2	46.8		0.0230	0.104		2
06149	Zinc	7440-66-6	44.5		0.585	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0054	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.7		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.9		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.96	J	0.22	1.1		1

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Sample Description: SL-029-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SB-3.0-4.0

LLI Sample # SW 6211477
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:48

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL029 SDG#: DE087-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	400		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.06		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	7.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-029-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011	08:32	Holly Berry	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110541AA	02/23/2011	17:05	Jason M Long	21.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105323736	02/22/2011	21:45	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105323736	02/22/2011	21:48	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105323736	02/22/2011	21:48	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105323736	02/22/2011	21:43	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11062SLD026	03/04/2011	17:00	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLB026	03/05/2011	10:26	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLA026	03/01/2011	05:10	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11062SLD026	03/03/2011	15:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLA026	02/25/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLB026	02/24/2011	11:55	Wanda F Oswald	1

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Sample Description: **SL-029-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SB-3.0-4.0

LLI Sample # SW 6211477
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:48

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL029 SDG#: DE087-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34A	03/02/2011 13:24	Marie D John	21.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201105323736	02/22/2011 21:42	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110600010A	03/05/2011 02:27	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110540024A	02/25/2011 20:06	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560007A	03/10/2011 05:20	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560007A	02/25/2011 18:15	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110540024A	02/24/2011 09:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110600010A	03/01/2011 15:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 04:11	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110560023A	02/25/2011 21:28	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110550001A	02/24/2011 17:42	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 03:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110550001A	02/24/2011 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110560023A	02/25/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110545708003	03/02/2011 01:06	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110541026001A	03/05/2011 16:40	David K Beck	2
06125	Arsenic	SW-846 6020	1	110541026001A	03/05/2011 16:40	David K Beck	2
06126	Barium	SW-846 6020	1	110541026001D	03/05/2011 16:40	David K Beck	2
06127	Beryllium	SW-846 6020	1	110541026001A	03/05/2011 16:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	110541026001A	03/05/2011 16:40	David K Beck	2
06131	Chromium	SW-846 6020	1	110541026001A	03/05/2011 16:40	David K Beck	2
06132	Cobalt	SW-846 6020	1	110541026001A	03/07/2011 15:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110541026001A	03/05/2011 16:40	David K Beck	2
06135	Lead	SW-846 6020	1	110541026001A	03/05/2011 16:40	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110541026001C	03/05/2011 16:40	David K Beck	2
06139	Nickel	SW-846 6020	1	110541026001A	03/05/2011 16:40	David K Beck	2
06141	Selenium	SW-846 6020	1	110541026001B	03/05/2011 16:40	David K Beck	2

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Sample Description: **SL-029-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SB-3.0-4.0

LLI Sample # SW 6211477
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:48

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL029 SDG#: DE087-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	110541026001A	03/05/2011 16:40	David K Beck	2
06145	Thallium	SW-846 6020	1	110541026001A	03/05/2011 16:40	David K Beck	2
06148	Vanadium	SW-846 6020	1	110541026001A	03/05/2011 16:40	David K Beck	2
06149	Zinc	SW-846 6020	1	110541026001A	03/05/2011 16:40	David K Beck	2
00159	Mercury	SW-846 7471A	1	110545711002	02/24/2011 09:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110545708003	02/23/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110541026001	02/23/2011 20:27	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110545711002	02/23/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621201B	03/02/2011 05:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11059621201B	03/02/2011 05:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11060621202B	03/03/2011 03:11	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11056243201A	02/28/2011 17:46	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11059102201A	03/01/2011 10:19	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201B	03/01/2011 09:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11060621202B	03/02/2011 14:15	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11059102201A	02/28/2011 16:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11054182101B	02/23/2011 12:30	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11054039401B	02/23/2011 12:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11068162401A	03/09/2011 19:05	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-022111 Water**
SSFL Area IV Collocated Soil Sampling
TB-022111

LLI Sample # WW 6211479
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 16:30

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB221 SDG#: DE087-17TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-022111 Water
SSFL Area IV Collocated Soil Sampling
TB-022111

LLI Sample # WW 6211479
LLI Group # 1234081
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 16:30

Submitted: 02/22/2011 09:45
Reported: 03/15/2011 15:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB221 SDG#: DE087-17TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110542AA	02/23/2011	12:58	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110551AA	02/24/2011	13:39	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110542AA	02/23/2011	12:58	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110551AA	02/24/2011	13:39	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11055A20A	02/25/2011	12:20	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11055A20A	02/25/2011	12:20	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
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Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110561AA	Sample number(s): 6211475-6211477									
Acetone	6.7	U	6.7	8.0	ug/kg	181		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	105		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	103		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	89		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	70		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	141		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	103		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	105		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	103		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	100		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	71		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	99		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	104		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	89		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	75		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	92		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	88		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	101		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	100		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	75		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	105		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	104		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	115		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	93		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	119		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	101		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	99		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	134		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	104		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	112		61-134		
Methylene Chloride	0.60	J	0.24	4.0	ug/kg	108		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	107		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	97		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	96		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	101		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	100		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	109		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	99		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	103		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	98		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	103		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	106		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	94		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
Batch number: E110541AA	Sample number(s): 6211475-6211477									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	102	70-130	3	30
Batch number: E110551AA	Sample number(s): 6211479									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	111	111	80-123	0	30
Batch number: Y110542AA	Sample number(s): 6211479									
Acetone	6	U	6.	20	ug/l	117	122	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	97	96	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	99	96	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	96	94	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	89	87	80-120	2	30
Bromoform	1	U	1.	5	ug/l	74	73	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	86	85	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	114	115	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	95	93	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	96	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	92	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	90	88	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	92	80-120	3	30
Chloroethane	1	U	1.	5	ug/l	80	80	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	113	108	56-129	4	30
Chloroform	0.8	U	0.8	5	ug/l	98	96	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	87	85	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	98	96	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	67	67	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	79	79	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	83	83	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	93	80-120	5	30
Dibromomethane	1	U	1.	5	ug/l	96	95	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	90	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	93	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	92	80-120	4	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	67	66	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	97	79-120	1	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	102	100	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	93	90	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	96	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	95	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	96	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	92	92	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	96	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	88	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	88	79-120	4	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	94	79-120	1	30
Freon 113	2	U	2.	10	ug/l	81	78	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	100	99	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	84	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	103	103	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	91	92	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	96	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	99	98	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	96	94	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	100	98	80-120	2	30
Styrene	1	U	1.	5	ug/l	89	88	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	89	88	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	95	94	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	90	91	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	96	93	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	85	84	80-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	89	87	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	82	81	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	94	93	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	94	93	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	85	83	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	100	97	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	96	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	97	96	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	83	81	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	92	91	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30
Batch number: 11055SLB026	Sample number(s): 6211463-6211477									
Aniline	170 U		170.	500	ug/kg	75		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	49		15-121		
Benzoic acid	170 U		170.	500	ug/kg	88		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	87		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	100		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	100		75-115		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	91		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	32		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	79		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	94		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	76		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	64		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	98		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	77		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	76		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	97		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	86		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	106		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	103		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	101		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	96		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	78		68-105		
Isophorone	17	U	17.	170	ug/kg	89		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	87		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	88		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	90		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	87		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	68		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	83		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	73		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	81		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	85		51-117		
Phenol	17	U	17.	170	ug/kg	84		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	101		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	99		78-111		
Batch number: 11056SLA026	Sample number(s): 6211463-6211477									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	95		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	110		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	104		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	118		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	107		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	121		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	121		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	109		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	108		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	111		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	108		67-143		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	104		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	107		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	82		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	92		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	108		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	107		56-121		
Batch number: 11062SLD026	Sample number(s): 6211475-6211477									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	98		70-130		
Batch number: 11055A20A	Sample number(s): 6211479									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	86	79	75-135	9	30
Batch number: 11060A34A	Sample number(s): 6211475-6211477									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69		67-119		
Batch number: 110600010A	Sample number(s): 6211475-6211477									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	107		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	101	100	54-134	1	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	101	99	54-134	1	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	105		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	100		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	104		80-120		
HMX	100 U		100.	300	ug/kg	96		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	100		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	91		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	98		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	97		80-120		
PETN	800 U		800.	2,400	ug/kg	107		80-120		
RDX	50	U	50.	120	ug/kg	97		75-131		
Tetryl	61	U	61.	120	ug/kg	113		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	111		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
Batch number: 110540024A	Sample number(s): 6211475-6211477									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	105		80-126		
Batch number: 110590028A	Sample number(s): 6211463-6211474									
2,4-D	1.2	U	1.2	3.6	ug/kg	78		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	31		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	83		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	72		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	39*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	97		62-170		
MCPA	76	U	76.	250	ug/kg	83		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	91		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	73		73-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	76		68-114		
Batch number: 110540019A	Sample number(s): 6211464,6211472									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		85-115		
Batch number: 110550028A	Sample number(s): 6211463-6211474									
Aldrin	0.066	U	0.066	0.17	ug/kg	97		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	67		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	75		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	73		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	79		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	105		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	82		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	75		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	79		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	55		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	91		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	98		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	76		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	70		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	91		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	70		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	100		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	88		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110560007A	Sample number(s): 6211463-6211477									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	86	80	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	79		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	102		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110530029A	Sample number(s): 6211475-6211477									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	91		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	80		66-113		
Batch number: 110550001A	Sample number(s): 6211475-6211477									
Diethylene glycol	5.0	U	5.0	13	mg/kg	101		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	103		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	102		75-125		
Batch number: 110560023A	Sample number(s): 6211475-6211477									
Ethanol	100 U		100.	500	ug/kg	91		75-112		
Isopropanol	100		100.	500	ug/kg	96		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methanol	100 U		100.	500	ug/kg	94		75-134		
Batch number: 110530028A	Sample number(s): 6211475-6211477									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	81		75-125		
Batch number: 110541026001A	Sample number(s): 6211463-6211477									
Antimony	0.0600	U	0.0600	0.200	mg/kg	87		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	100		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	103		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	103		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	105		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	100		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	103		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	107		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	104		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	103		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	103		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	96		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	104		78-122		
Batch number: 110541026001B	Sample number(s): 6211463-6211477									
Selenium	0.0400	U	0.0400	0.400	mg/kg	102		79-122		
Batch number: 110541026001C	Sample number(s): 6211463-6211477									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	106		78-122		
Batch number: 110541026001D	Sample number(s): 6211463-6211477									
Barium	0.108	U	0.108	0.400	mg/kg	108		79-121		
Batch number: 110545708003	Sample number(s): 6211463-6211477									
Aluminum	5.03	U	5.03	20.0	mg/kg	91		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	94		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	94		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	103		81-119		
Phosphorus	1.26	J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	94		78-110		
Sodium	37.3	U	37.3	100	mg/kg	98		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	103		79-121		
Tin	1.60	J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	91		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		
Batch number: 110545711002	Sample number(s): 6211463-6211477									
Mercury	0.0028	U	0.0028	0.0973	mg/kg	96		88-123		
Batch number: 11056243201A	Sample number(s): 6211463-6211477									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11059102201A	Sample number(s): 6211475-6211477									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	107		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11059621201A	Sample number(s): 6211463-6211472									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	93		90-110		
Batch number: 11059621201B	Sample number(s): 6211473-6211477									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	93		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	104		90-110		
Batch number: 11060621202A	Sample number(s): 6211463-6211472									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11060621202B	Sample number(s): 6211473-6211477									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11054039401A	Sample number(s): 6211463-6211471									
22a pH by 9045C						100		95-105		
Batch number: 11054039401B	Sample number(s): 6211472-6211477									
22a pH by 9045C						100		95-105		
Batch number: 11054182101A	Sample number(s): 6211463-6211471									
32a OR Potential						99		98-102		
Batch number: 11054182101B	Sample number(s): 6211472-6211477									
32a OR Potential						99		98-102		
Batch number: 11062162401A	Sample number(s): 6211463-6211468									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11062162401B	Sample number(s): 6211469-6211474									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11068162401A	Sample number(s): 6211475-6211477									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110561AA	Sample number(s): 6211475-6211477 UNSPK: P214502								
Acetone	104	99	15-210	1	30				
Benzene	113	105	55-143	3	30				
Bromobenzene	111	101	43-139	6	30				
Bromochloromethane	105	102	60-137	1	30				
Bromodichloromethane	101	94	53-136	3	30				
Bromoform	88	81	38-124	5	30				
Bromomethane	70	67	42-168	0	30				
2-Butanone	96	90	37-163	3	30				
n-Butylbenzene	115	97	30-146	13	30				
sec-Butylbenzene	116	103	33-157	8	30				
tert-Butylbenzene	112	102	41-152	6	30				
Carbon Tetrachloride	110	103	45-153	3	30				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chlorobenzene	107	98	49-135	5	30				
Chloroethane	73	70	39-152	0	30				
2-Chloroethyl Vinyl Ether	96	95	32-139	3	30				
Chloroform	109	103	61-142	3	30				
Chloromethane	97	92	51-163	1	30				
2-Chlorotoluene	111	102	42-146	5	30				
4-Chlorotoluene	112	101	39-145	7	30				
Chlorotrifluoroethene	79	79	70-130	1	30				
1,2-Dibromo-3-chloropropane	85	73	30-139	11	30				
Dibromochloromethane	90	83	51-128	5	30				
1,2-Dibromoethane	100	92	54-129	5	30				
Dibromomethane	103	96	57-130	3	30				
1,2-Dichlorobenzene	107	94	36-133	9	30				
1,3-Dichlorobenzene	108	95	34-134	9	30				
1,4-Dichlorobenzene	107	94	35-136	9	30				
Dichlorodifluoromethane	83	78	26-151	2	30				
1,1-Dichloroethane	112	105	63-142	3	30				
1,2-Dichloroethane	108	99	68-131	5	30				
1,1-Dichloroethene	126	119	61-149	3	30				
cis-1,2-Dichloroethene	112	104	60-136	4	30				
trans-1,2-Dichloroethene	115	108	59-142	2	30				
1,2-Dichloropropane	108	100	62-135	4	30				
1,3-Dichloropropane	102	94	58-129	5	30				
2,2-Dichloropropane	112	104	53-147	3	30				
1,1-Dichloropropene	117	110	54-145	3	30				
cis-1,3-Dichloropropene	99	94	51-131	1	30				
trans-1,3-Dichloropropene	94	87	49-129	5	30				
Ethylbenzene	110	101	44-141	5	30				
Freon 113	131	118	56-156	8	30				
Freon 133a	109	111	61-131	3	30				
Hexachlorobutadiene	102	78	10-155	24	30				
2-Hexanone	92	84	32-160	5	30				
Isopropylbenzene	111	100	38-144	7	30				
p-Isopropyltoluene	115	102	29-152	9	30				
Methyl Tertiary Butyl Ether	102	94	55-129	5	30				
4-Methyl-2-pentanone	99	91	46-139	4	30				
Methylene Chloride	116	103	61-141	8	30				
n-Propylbenzene	118	107	39-157	7	30				
Styrene	105	95	35-134	7	30				
1,1,1,2-Tetrachloroethane	101	91	52-130	6	30				
1,1,2,2-Tetrachloroethane	95	85	40-152	7	30				
Tetrachloroethene	110	100	42-149	5	30				
Toluene	110	102	50-146	4	30				
1,2,3-Trichlorobenzene	95	79	10-140	15	30				
1,2,4-Trichlorobenzene	97	81	10-136	14	30				
1,1,1-Trichloroethane	117	111	64-142	2	30				
1,1,2-Trichloroethane	101	91	54-139	6	30				
Trichloroethene	111	105	53-144	2	30				
Trichlorofluoromethane	108	103	47-163	1	30				
1,2,3-Trichloropropane	98	89	45-154	6	30				
1,2,4-Trimethylbenzene	114	102	37-149	7	30				
1,3,5-Trimethylbenzene	113	102	38-150	7	30				
Vinyl Chloride	103	98	50-154	1	30				

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Quality Control Summary

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Reported: 03/15/11 at 03:38 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
m+p-Xylene	109	98	44-137	6	30				
o-Xylene	106	97	42-137	5	30				
Batch number: 11055SLB026	Sample number(s): 6211463-6211477 UNSPK: 6211463								
Aniline	46	75	35-95	47*	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	88	93	10-173	5	30				
Benzyl alcohol	90	93	67-115	2	30				
4-Bromophenyl-phenylether	99	103	67-129	4	30				
Butylbenzylphthalate	98	104	73-134	5	30				
Carbazole	92	94	64-120	2	30				
4-Chloro-3-methylphenol	87	91	76-110	3	30				
4-Chloroaniline	54	73	23-95	28	30				
bis(2-Chloroethoxy)methane	88	89	75-104	0	30				
bis(2-Chloroethyl)ether	84	79	60-116	8	30				
bis(2-Chloroisopropyl)ether	93	92	55-142	2	30				
2-Chloronaphthalene	77	76	50-141	2	30				
2-Chlorophenol	95	95	73-121	1	30				
4-Chlorophenyl-phenylether	95	99	80-109	3	30				
Dibenzofuran	95	97	71-112	1	30				
1,2-Dichlorobenzene	85	84	66-108	3	30				
1,3-Dichlorobenzene	84	82	63-109	3	30				
1,4-Dichlorobenzene	83	82	70-100	1	30				
3,3'-Dichlorobenzidine	76	80	16-119	4	30				
2,4-Dichlorophenol	95	99	78-117	4	30				
2,4-Dimethylphenol	90	92	78-110	1	30				
3,5-Dimethylphenol	93	97	70-130	3	30				
4,6-Dinitro-2-methylphenol	71	63	24-116	13	30				
2,4-Dinitrophenol	65	55	20-143	18	30				
2,4-Dinitrotoluene	94	99	73-113	4	30				
2,6-Dinitrotoluene	90	97	69-123	7	30				
1,2-Diphenylhydrazine	84	88	71-129	3	30				
bis(2-Ethylhexyl)phthalate	102	108	63-122	5	30				
Hexachlorobenzene	98	103	77-114	4	30				
Hexachlorobutadiene	94	96	62-120	2	30				
Hexachlorocyclopentadiene	77	72	10-153	8	30				
Hexachloroethane	74	74	57-109	2	30				
Isophorone	86	89	73-102	2	30				
2-Methylphenol	87	90	75-111	3	30				
4-Methylphenol	89	92	71-111	3	30				
2-Nitroaniline	90	95	67-125	4	30				
3-Nitroaniline	81	89	59-122	8	30				
4-Nitroaniline	77	83	52-112	7	30				
Nitrobenzene	83	83	72-106	1	30				
2-Nitrophenol	95	97	74-115	1	30				
4-Nitrophenol	70	74	54-113	5	30				
N-Nitroso-di-n-propylamine	81	81	60-116	1	30				
N-Nitrosodiphenylamine	95	100	86-145	4	30				
Pentachlorophenol	91	94	28-127	3	30				
Phenol	87	87	58-126	0	30				
1,2,4-Trichlorobenzene	92	93	72-115	0	30				
2,4,5-Trichlorophenol	98	103	78-109	4	30				
2,4,6-Trichlorophenol	101	103	77-115	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11056SLA026	Sample number(s): 6211463-6211477 UNSPK: 6211463								
Acenaphthene	92	99	63-105	8	30				
Acenaphthylene	98	98	67-114	0	30				
Anthracene	100	101	60-122	1	30				
Benzo(a)anthracene	109	110	59-128	1	30				
Benzo(a)pyrene	100	102	45-138	2	30				
Benzo(b)fluoranthene	95	100	43-155	5	30				
Benzo(g,h,i)perylene	92	91	33-141	1	30				
Benzo(k)fluoranthene	92	98	42-144	6	30				
Butylbenzylphthalate	123	138	57-173	12	30				
Di-n-butylphthalate	127	128	65-148	1	30				
Chrysene	102	104	48-134	2	30				
Dibenz(a,h)anthracene	85	85	22-133	0	30				
Diethylphthalate	115	113	70-136	1	30				
Dimethylphthalate	108	107	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	101	126	39-167	18	30				
Fluoranthene	102	103	26-166	1	30				
Fluorene	98	98	66-122	0	30				
Indeno(1,2,3-cd)pyrene	88	87	21-143	0	30				
1-Methylnaphthalene	90	91	72-123	1	30				
2-Methylnaphthalene	82	82	64-103	0	30				
Naphthalene	86	87	61-102	1	30				
N-Nitrosodimethylamine	91	93	48-113	2	30				
Di-n-octylphthalate	128	147	40-192	14	30				
Phenanthrene	92	93	12-165	2	30				
Pyrene	89	97	15-153	9	30				
Batch number: 11062SLD026	Sample number(s): 6211475-6211477 UNSPK: 6211475								
N-Nitrosodimethylamine	99	101	70-130	2	30				
Batch number: 11060A34A	Sample number(s): 6211475-6211477 UNSPK: P214502								
9a TPH by EPA 8015B Gas C5-C12	105	108	39-118	4	30				
Batch number: 110600010A	Sample number(s): 6211475-6211477 UNSPK: P214502								
4-Amino-2,6-Dinitrotoluene	113	112	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	113	111	80-137	1	50				
1,3-Dinitrobenzene	112	111	38-166	1	50				
2,4-Dinitrotoluene	107	106	80-131	1	50				
2,6-Dinitrotoluene	109	109	80-127	1	50				
HMX	103	102	63-128	1	50				
Nitrobenzene	108	108	80-125	0	50				
Nitroglycerin	105	104	80-120	1	50				
2-Nitrotoluene	108	107	80-122	1	50				
3-Nitrotoluene	106	105	72-119	1	50				
4-Nitrotoluene	104	103	80-125	1	50				
PETN	117	116	80-121	1	50				
RDX	98	97	75-129	1	50				
Tetryl	113	108	55-174	5	50				
1,3,5-Trinitrobenzene	117	115	82-126	1	50				
2,4,6-Trinitrotoluene	114	113	82-130	1	50				
Batch number: 110540024A	Sample number(s): 6211475-6211477 UNSPK: 6211475								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
17a Formaldehyde by 8315A	103	99	80-120	4	50				
Batch number: 110590028A	Sample number(s): 6211463-6211474 UNSPK: 6211463								
2,4-D	76	88	17-180	14	35				
Dalapon	59	65	10-125	10	50				
2,4-DB	84	91	10-201	9	50				
Dicamba	125	80	10-190	45	50				
Dinoseb	12	12	10-46	0	35				
2,4-DP (Dichlorprop)	105	118	33-178	11	50				
MCPA	66	83	10-213	13	50				
MCPP (Mecoprop)	42	85	10-184	68*	50				
2,4,5-T	36	45	10-156	21	35				
2,4,5-TP	61	66	24-141	8	35				
Batch number: 110540019A	Sample number(s): 6211464,6211472 UNSPK: p210672								
6a Perchlorate EPA 6850	103	109	80-120	6	20				
Batch number: 110550028A	Sample number(s): 6211463-6211474 UNSPK: 6211463								
Aldrin	103	64	16-126	47	50				
Alpha BHC	73	64	10-129	13	50				
Beta BHC	53	47	14-147	13	50				
Gamma BHC - Lindane	70	61	10-140	14	50				
p,p-DDD	87	81	16-163	7	50				
p,p-DDE	112	98	18-161	10	50				
p,p-DDT	89	68	10-176	18	50				
Delta BHC	59	53	23-140	11	50				
Dieldrin	68	62	19-154	9	50				
Endosulfan I	58	55	16-137	5	50				
Endosulfan II	85	78	28-154	8	50				
Endosulfan Sulfate	86	80	21-160	7	50				
Endrin	77	71	11-149	8	50				
Endrin Aldehyde	67	59	10-148	12	35				
Endrin Ketone	85	79	22-165	7	50				
Heptachlor	58	52	13-126	11	50				
Heptachlor Epoxide	103	91	13-157	13	50				
Methoxychlor	49	45	32-147	10	50				
Batch number: 110560007A	Sample number(s): 6211463-6211477 UNSPK: 6211463								
PCB-1016	67	70	29-146	5	50				
PCB-1260	75	80	39-149	7	50				
Batch number: 110530029A	Sample number(s): 6211475-6211477 UNSPK: P208350								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	2133 (2)	5256 (2)	49-123	14	20				
EFH (C30 - C40)	16238 (2)	25509 (2)	49-123	16	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 110550001A	Sample number(s): 6211475-6211477 UNSPK: 6211475								
Diethylene glycol	84	86	59-109	3	20				
Ethylene glycol	87	91	63-107	5	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Propylene glycol	85	88	63-107	3	20				
Batch number: 110560023A	Sample number(s): 6211475-6211477 UNSPK: P214502								
Ethanol	78	77	24-143	1	20				
Isopropanol	83	81	75-125	3	20				
Methanol	87	83	45-136	5	20				
Batch number: 110530028A	Sample number(s): 6211475-6211477 UNSPK: P206985								
m-Terphenyl	80	80	75-125	1	20				
o-Terphenyl	96	95	75-125	2	20				
p-Terphenyl	75	73*	75-125	2	20				
Batch number: 110541026001A	Sample number(s): 6211463-6211477 UNSPK: 6211463 BKG: 6211463								
Antimony	2*	3*	75-125	2	20	0.383	0.0709 J	137* (1)	20
Arsenic	-64*	-65*	75-125	0	20	6.86	3.61	62*	20
Beryllium	84	87	75-125	2	20	0.571	0.470	19 (1)	20
Cadmium	94	96	75-125	2	20	0.224	0.151	39* (1)	20
Chromium	82	83	75-125	0	20	17.6	16.1	9	20
Cobalt	86	86	75-125	0	20	5.47	4.75	14	20
Copper	94	91	75-125	2	20	8.57	8.42	2	20
Lead	39*	43*	75-125	1	20	10.8	8.32	26*	20
Nickel	79	80	75-125	0	20	12.8	11.1	14	20
Silver	101	99	75-125	2	20	0.0510 J	0.0392 J	26* (1)	20
Thallium	94	97	75-125	2	20	0.245	0.224	9 (1)	20
Vanadium	26*	26*	75-125	0	20	35.7	27.9	24*	20
Zinc	80 (2)	62 (2)	75-125	3	20	46.0	43.8	5	20
Batch number: 110541026001B	Sample number(s): 6211463-6211477 UNSPK: 6211463 BKG: 6211463								
Selenium	91	91	75-125	0	20	0.204 J	0.0979 J	70* (1)	20
Batch number: 110541026001C	Sample number(s): 6211463-6211477 UNSPK: 6211463 BKG: 6211463								
Molybdenum	92	89	75-125	3	20	0.960	0.497	63*	20
Batch number: 110541026001D	Sample number(s): 6211463-6211477 UNSPK: 6211463 BKG: 6211463								
Barium	57 (2)	57 (2)	75-125	0	20	102	92.1	10	20
Batch number: 110545708003	Sample number(s): 6211463-6211477 UNSPK: 6211463 BKG: 6211463								
Aluminum	1896 (2)	1556 (2)	75-125	4	20	12,200	11,900	2	20
Boron	101	99	84-115	2	20	2.23 J	1.96 J	13 (1)	20
Calcium	185 (2)	158 (2)	75-125	4	20	2,000	2,000	0	20
Iron	1028 (2)	524 (2)	75-125	3	20	16,200	16,000	1	20
Lithium	102	101	82-114	2	20	16.7	15.8	5	20
Magnesium	191 (2)	153 (2)	75-125	2	20	3,310	3,210	3	20
Manganese	109 (2)	84 (2)	75-125	4	20	304	311	2	20
Phosphorus	112	109	75-125	1	20	300	309	3	20
Potassium	143*	122	75-125	5	20	3,130	3,060	2	20
Sodium	99	98	75-125	2	20	65.6 J	63.6 J	3 (1)	20
Strontium	101	98	75-115	3	20	19.2	18.9	2	20
Tin	89	89	80-110	1	20	2.53 J	2.23 J	12 (1)	20
Titanium	366 (2)	258 (2)	75-125	9	20	913	883	3	20
Zirconium	94	93	75-125	1	20	1.75 J	1.77 J	1 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110545711002	Sample number(s): 6211463-6211477					UNSPK: 6211463	BKG: 6211463		
Mercury	118	105	65-135	12	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 11056243201A	Sample number(s): 6211463-6211477					UNSPK: P214502	BKG: P214502		
3a Cr VI by EPA 7199	97		75-125			0.42 J	0.50 J	17 (1)	20
Batch number: 11059102201A	Sample number(s): 6211475-6211477					UNSPK: P209565	BKG: P209565		
21a Cyanide by 9012B	106		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11059621201A	Sample number(s): 6211463-6211472					UNSPK: 6211463	BKG: 6211463		
11a Anions by 300.0 - Fluoride	44*		80-120			0.83 J	0.80 U	200* (1)	20
Batch number: 11059621201B	Sample number(s): 6211473-6211477					UNSPK: 6211473	BKG: 6211473		
11a Anions by 300.0 - Fluoride	56*		80-120			1.0	0.80 U	200* (1)	20
11a Anions by 300.0 - Nitrate	117		80-120			2.6	2.5	6 (1)	20
Batch number: 11060621202A	Sample number(s): 6211463-6211472					UNSPK: 6211463	BKG: 6211463		
7a Perchlorate EPA 314.0	121*		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11060621202B	Sample number(s): 6211473-6211477					UNSPK: 6211473	BKG: 6211473		
7a Perchlorate EPA 314.0	89		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11054039401A	Sample number(s): 6211463-6211471					BKG: 6211463			
22a pH by 9045C						6.37	6.58	3*	1
Batch number: 11054039401B	Sample number(s): 6211472-6211477					BKG: 6211472			
22a pH by 9045C						6.59	6.36	4*	1
Batch number: 11054182101A	Sample number(s): 6211463-6211471					BKG: 6211463			
32a OR Potential						334	352	5	6
Batch number: 11054182101B	Sample number(s): 6211472-6211477					BKG: 6211472			
32a OR Potential						346	380	9*	6
Batch number: 11062162401A	Sample number(s): 6211463-6211468					BKG: 6211466			
28a Moisture Content by 160.3						14.8	14.5	2	20
Batch number: 11062162401B	Sample number(s): 6211469-6211474					BKG: 6211469			
28a Moisture Content by 160.3						13.7	13.7	1	20
Batch number: 11068162401A	Sample number(s): 6211475-6211477					BKG: 6211475			
28a Moisture Content by 160.3						12.8	12.3	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Surrogate Quality Control

Batch number: B110561AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6211475	97	95	99	94
6211476	97	96	100	95
6211477	97	97	100	94
Blank	101	106	97	96
LCS	101	104	100	98
MS	99	102	100	98
MSD	99	101	100	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110541AA

	Toluene-d8
6211475	96
6211476	97
6211477	98
Blank	98
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110551AA

	Toluene-d8
6211479	97
Blank	97
LCS	100
LCSD	97
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110542AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6211479	100	100	101	99
Blank	100	98	101	99
LCS	100	99	101	99
LCSD	101	103	101	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11055SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6211463	83	89	89	79	90	92
6211464	79	84	86	74	84	91
6211465	81	85	84	75	85	89
6211466	77	81	84	72	81	93
6211467	80	84	87	75	86	94

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Quality Control Summary

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Reported: 03/15/11 at 03:38 PM

Surrogate Quality Control

6211468	75	80	84	72	83	95
6211469	81	85	87	75	85	92
6211470	80	84	84	74	85	88
6211471	74	79	80	71	80	89
6211472	79	84	85	75	86	87
6211473	82	87	91	78	91	92
6211474	84	88	86	78	89	89
6211475	79	84	86	76	87	93
6211476	76	80	79	72	80	84
6211477	76	81	81	76	87	88
Blank	76	82	88	76	88	91
LCS	80	86	92	79	90	90
MS	82	89	90	78	88	88
MSD	83	88	96	79	91	93
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11056SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6211463	107	87	96
6211464	111	85	97
6211465	120	88	103
6211466	116	90	107
6211467	93	74	88
6211468	110	86	104
6211469	105	78	107
6211470	109	82	99
6211471	104	85	95
6211472	125	83	103
6211473	116	88	102
6211474	126	84	77
6211475	93	75	95
6211476	105	85	104
6211477	95	79	97
Blank	85	78	98
LCS	108	82	104
MS	120	88	90
MSD	101	84	99
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11062SLD026

	N-Nitrosodimethylamine-d6
6211475	77
6211476	83
6211477	107
Blank	102
LCS	107
MS	110
MSD	113
Limits:	50-150

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Surrogate Quality Control

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11055A20A

	Trifluorotoluene-F
6211479	83
Blank	82
LCS	101
LCSD	101
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11060A34A

	Trifluorotoluene-F
6211475	94
6211476	103
6211477	102
Blank	83
LCS	88
MS	109
MSD	107
Limits:	61-122

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110540024A

	Butyraldehyde
6211475	88
6211476	100
6211477	104
Blank	85
LCS	105
MS	101
MSD	93
Limits:	64-126

Analysis Name: 12a Pesticides by 8081A
Batch number: 110550028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6211463	57	88
6211464	50	75
6211465	55	81
6211466	54	69
6211467	52	67
6211468	59	79
6211469	70	83
6211470	70	79
6211471	74	88
6211472	58	73
6211473	68	76
6211474	69	90
Blank	67	95

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Surrogate Quality Control

LCS	66	91
MS	66	82
MSD	55	75
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110560007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6211463	87	114
6211464	37*	40*
6211465	83	97
6211466	84	97
6211467	82	96
6211468	96	117
6211469	85	104
6211470	89	108
6211471	86	104
6211472	80	98
6211473	75	93
6211474	150*	151*
6211475	75	72
6211476	85	88
6211477	66	77
Blank	81	97
LCS	81	103
LCSD	76	96
MS	63	84
MSD	67	83
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110590028A

	2,4-Dichlorophenylacetic acid
6211463	84
6211464	83
6211465	88
6211466	116
6211467	79
6211468	80
6211469	90
6211470	83
6211471	78
6211472	94
6211473	74
6211474	92
Blank	93
LCS	85
MS	85
MSD	89
Limits:	36-156

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Surrogate Quality Control

Analysis Name: 20a Energetics by 8330A
Batch number: 110600010A

	2-Nitro-m-xylene
6211475	125
6211476	118
6211477	123
Blank	121
LCS	114
LCSD	108
MS	126
MSD	116
Limits:	80-146

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110530028A

	n-Triacontane-d62
6211475	74
6211476	79
6211477	74
Blank	80
LCS	78
MS	85
MSD	81
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110530029A

	Chlorobenzene	Orthoterphenyl
6211475	57	78
6211476	68	86
6211477	61	79
Blank	78	89
LCS	80	91
MS	66	104
MSD	56	89
Limits:	37-125	47-145

Analysis Name: 27a Glycols by 8015B
Batch number: 110550001A

	Tetramethylene glycol
6211475	76
6211476	34
6211477	46
Blank	100
LCS	98
MS	89
MSD	87
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234081
Reported: 03/15/11 at 03:38 PM

Surrogate Quality Control

Analysis Name: 25a Alcohols by 8015B
Batch number: 110560023A

	Acetone
6211475	82
6211476	90
6211477	89
Blank	100
LCS	100
MS	88
MSD	84
Limits:	42-138

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

15013 1259361 G2119625-79

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-025-SA5A-SB-4.5-5.5	2.21.2011	1144	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	Amended COC
SL-025-SA5A-SB-5.0	2.21.2011	1139	SOIL	NONE	5-Encores									X	X	X											
SL-028-SA5A-SB-3.5-4.5	2.21.2011	1020	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-028-SA5A-SB-4.0	2.21.2011	1015	SOIL	NONE	5-Encores									X	X	X											
SL-029-SA5A-SB-3.0-4.0	2.21.2011	1448	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-029-SA5A-SB-3.5	2.21.2011	1441	SOIL	NONE	5-Encores									X	X	X											
SL-030-SA5A-SB-4.0-5.0	2.21.2011	1603	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-030-SA5A-SB-4.5	2.21.2011	1558	SOIL	NONE	5-Encores									X	X	X											
TB-022111	2.21.2011	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (*Signature*)	Date/Time 02/21/2011 / 17:00	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8695 1432 3195, 8695 1432 3200	No. of coolers = 2

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Tuesday, March 08, 2011 5:19 PM
To: Nicole Maljovec
Cc: Crites, Ann Marie
Subject: Revised COC for 2.21.11
Attachments: COC_02_21_11.xls

Nicole – see attached COC with corrected sample numbers on page 2 (in red font). Please revise the records in your system!

Thanks to Ann Marie for catching those boo-boos!

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

13013 1234081 6211463-79

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: Metals EPA 6010A/6020A/7471A	Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs&PCTs EPA 8082	Dioxin/Furan EPA 1613B	Perchlorate EPA 314.0	Hex Chrome EPA 7196*	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: Pesticides EPA 8081A (surface soil only)	Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SL-054-SA5A-SS-0.0-0.5	2.21.2011	1445	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-054-SA5A-SS-0.0-0.5	2.21.2011	1445	SOIL	NONE	1-6 inch sleeve			X	X							
SL-055-SA5A-SS-0.0-0.5	2.21.2011	1427	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-055-SA5A-SS-0.0-0.5	2.21.2011	1427	SOIL	NONE	1-6 inch sleeve			X	X							
SL-056-SA5A-SS-0.0-0.5	2.21.2011	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-056-SA5A-SS-0.0-0.5	2.21.2011	1400	SOIL	NONE	1-6 inch sleeve			X	X							
SL-057-SA5A-SS-0.0-0.5	2.21.2011	1200	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-057-SA5A-SS-0.0-0.5	2.21.2011	1200	SOIL	NONE	1-6 inch sleeve			X	X							
SL-058-SA5A-SS-0.0-0.5	2.21.2011	1340	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-058-SA5A-SS-0.0-0.5	2.21.2011	1340	SOIL	NONE	1-6 inch sleeve			X	X							
SL-059-SA5A-SS-0.0-0.5	2.21.2011	1120	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-059-SA5A-SS-0.0-0.5	2.21.2011	1120	SOIL	NONE	1-6 inch sleeve			X	X							
SL-060-SA5A-SS-0.0-0.5	2.21.2011	1055	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-060-SA5A-SS-0.0-0.5	2.21.2011	1055	SOIL	NONE	1-6 inch sleeve			X	X							
SL-061-SA5A-SS-0.0-0.5	2.21.2011	1035	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-061-SA5A-SS-0.0-0.5	2.21.2011	1035	SOIL	NONE	1-6 inch sleeve			X	X							
SL-062-SA5A-SS-0.0-0.5	2.21.2011	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-062-SA5A-SS-0.0-0.5	2.21.2011	0905	SOIL	NONE	1-6 inch sleeve			X	X							
SL-063-SA5A-SS-0.0-0.5	2.21.2011	0958	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-063-SA5A-SS-0.0-0.5	2.21.2011	0958	SOIL	NONE	1-6 inch sleeve			X	X							
SL-064-SA5A-SS-0.0-0.5	2.21.2011	0935	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-064-SA5A-SS-0.0-0.5	2.21.2011	0935	SOIL	NONE	1-6 inch sleeve			X	X							
SL-095-SA5A-SS-0.0-0.5	2.21.2011	1500	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-095-SA5A-SS-0.0-0.5	2.21.2011	1500	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	02/21/2011 / 17:00		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	No. of coolers = 2
	2/22/11 / 0945	8695 1432 3195, 8695 1432 3200	

13013 1234081 6211463-79

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Sampler Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 8950 (10%)	VOCs EPA 8260B $	1,4-Dioxane EPA 8260B/M $	TPH-GRO EPA 8015B $	*pH EPA 9045C	**TPH-EPH EPA 8015B M/M	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahydrofuran EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-028-SA5B-SB-3.0-4.0	2.21.2011	1144	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-028-SA5B-SB-3.5	2.21.2011	1139	SOIL	NONE	5-Encores									X	X	X											
SL-028-SA5B-SB-3.5-4.5	2.21.2011	1020	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-028-SA5B-SB-4.0	2.21.2011	1015	SOIL	NONE	5-Encores									X	X	X											
SL-029-SA5B-SB-3.0-4.0	2.21.2011	1448	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-029-SA5B-SB-3.5	2.21.2011	1441	SOIL	NONE	5-Encores									X	X	X											
SL-030-SA5B-SB-4.0-5.0	2.21.2011	1603	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-030-SA5B-SB-4.5	2.21.2011	1558	SOIL	NONE	5-Encores									X	X	X											
TB-022111	2.21.2011	1650	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	02/21/2011 / 17:00		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	2/22/11 0745	8695 1432 3195, 8695 1432 3200	No. of coolers = 2

Anneliese H. Owen

From: Nancy J. Bornholm
Sent: Tuesday, February 22, 2011 1:14 PM
To: SA Env Entry
Cc: Nicole Maljovec
Subject: SAMPLE INFO 2/22 FED EX CDM
Importance: High

See note below regarding samples received today that should not be entered.

Thanks!
Nancy

Nancy Bornholm | Lancaster Laboratories, Inc. | Principal Project Manager - Env | Phone: 717.656.2300 x 1310 | Fax: 717.656.6766 | email: njbornholm@lancasterlabs.com

---

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Tuesday, February 22, 2011 1:09 PM
To: Nancy J. Bornholm
Subject: FW: Samples on 2/21/2011 COC that are not to be analyzed

Hi Nancy – I got Nicole's out of office notice, so I'm letting you know that the following samples shipped yesterday should not have been collected and therefore should not be analyzed.

SL-030-SA5B-SB-4.0-5.0
SL-030-SA5B-SB-4.5

Thanks, Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/22/2011
Group Number: 1234083
SDG: DX053
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-054-SA5A-SS-0.0-0.5 Soil	6211484
SL-055-SA5A-SS-0.0-0.5 Soil	6211485
SL-056-SA5A-SS-0.0-0.5 Soil	6211486
SL-057-SA5A-SS-0.0-0.5 Soil	6211487
SL-058-SA5A-SS-0.0-0.5 Soil	6211488
SL-059-SA5A-SS-0.0-0.5 Soil	6211489
SL-060-SA5A-SS-0.0-0.5 Soil	6211490
SL-061-SA5A-SS-0.0-0.5 Soil	6211491
SL-062-SA5A-SS-0.0-0.5 Soil	6211492
SL-063-SA5A-SS-0.0-0.5 Soil	6211493
SL-064-SA5A-SS-0.0-0.5 Soil	6211494
SL-095-SA5A-SS-0.0-0.5 Soil	6211495
SL-025-SA5A-SB-4.5-5.5 Soil	6211496
SL-028-SA5A-SB-3.5-4.5 Soil	6211497
SL-029-SA5A-SB-3.0-4.0 Soil	6211498

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-054-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SS-0.0-0.5

LLI Sample # SW 6211484
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:45

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD054 SDG#: DX053-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SS-0.0-0.5

LLI Sample # SW 6211484
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:45

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD054 SDG#: DX053-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0937	JBQ	0.0380	1.17	1
11031	12378-PeCDD	40321-76-4	0.291	JBQ	0.0419	5.87	1
11031	123478-HxCDD	39227-28-6	0.411	JB	0.0655	5.87	1
11031	123678-HxCDD	57653-85-7	1.18	JB	0.0648	5.87	1
11031	123789-HxCDD	19408-74-3	1.10	JB	0.0629	5.87	1
11031	1234678-HpCDD	35822-46-9	26.4	B	0.0779	5.87	1
11031	OCDD	3268-87-9	536	B	0.0479	11.7	1
11031	2378-TCDF	51207-31-9	0.226	JBQ	0.0556	1.17	1
11031	12378-PeCDF	57117-41-6	0.178	JB	0.0410	5.87	1
11031	23478-PeCDF	57117-31-4	0.366	JBQ	0.0372	5.87	1
11031	123478-HxCDF	70648-26-9	0.605	JB	0.0750	5.87	1
11031	123678-HxCDF	57117-44-9	0.231	JBQ	0.0573	5.87	1
11031	123789-HxCDF	72918-21-9	0.523	JB	0.0445	5.87	1
11031	234678-HxCDF	60851-34-5	0.278	JB	0.0426	5.87	1
11031	1234678-HpCDF	67562-39-4	3.28	JB	0.0383	5.87	1
11031	1234789-HpCDF	55673-89-7	0.287	JB	0.0338	5.87	1
11031	OCDF	39001-02-0	9.51	JB	0.0485	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-054-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SS-0.0-0.5

LLI Sample # SW 6211484
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:45

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD054 SDG#: DX053-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-054-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SS-0.0-0.5

LLI Sample # SW 6211484
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:45

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD054 SDG#: DX053-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/04/2011 15:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-055-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SS-0.0-0.5

LLI Sample # SW 6211485
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:27

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD055 SDG#: DX053-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-055-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SS-0.0-0.5

LLI Sample # SW 6211485
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:27

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD055 SDG#: DX053-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0399	U	0.0399	1.18	1
11031	12378-PeCDD	40321-76-4	0.239	JBQ	0.0375	5.90	1
11031	123478-HxCDD	39227-28-6	0.296	JB	0.0593	5.90	1
11031	123678-HxCDD	57653-85-7	0.908	JB	0.0588	5.90	1
11031	123789-HxCDD	19408-74-3	0.851	JB	0.0600	5.90	1
11031	1234678-HpCDD	35822-46-9	19.1	B	0.0558	5.90	1
11031	OCDD	3268-87-9	362	B	0.0444	11.8	1
11031	2378-TCDF	51207-31-9	0.121	JB	0.0538	1.18	1
11031	12378-PeCDF	57117-41-6	0.220	JB	0.0344	5.90	1
11031	23478-PeCDF	57117-31-4	0.371	JBQ	0.0344	5.90	1
11031	123478-HxCDF	70648-26-9	0.446	JB	0.0553	5.90	1
11031	123678-HxCDF	57117-44-9	0.181	JBQ	0.0432	5.90	1
11031	123789-HxCDF	72918-21-9	0.561	JB	0.0462	5.90	1
11031	234678-HxCDF	60851-34-5	0.269	JBQ	0.0407	5.90	1
11031	1234678-HpCDF	67562-39-4	2.82	JB	0.0237	5.90	1
11031	1234789-HpCDF	55673-89-7	0.260	JB	0.0299	5.90	1
11031	OCDF	39001-02-0	7.09	JB	0.0424	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-055-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SS-0.0-0.5

LLI Sample # SW 6211485
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:27

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD055 SDG#: DX053-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-055-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SS-0.0-0.5

LLI Sample # SW 6211485
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:27

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD055 SDG#: DX053-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/04/2011 15:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-056-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SS-0.0-0.5

LLI Sample # SW 6211486
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:00

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD056 SDG#: DX053-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-056-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SS-0.0-0.5

LLI Sample # SW 6211486
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:00

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD056 SDG#: DX053-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.102	JBQ	0.0418	1.17	1
11031	12378-PeCDD	40321-76-4	0.295	JBQ	0.0395	5.85	1
11031	123478-HxCDD	39227-28-6	0.348	JBQ	0.0628	5.85	1
11031	123678-HxCDD	57653-85-7	1.01	JB	0.0659	5.85	1
11031	123789-HxCDD	19408-74-3	0.937	JB	0.0663	5.85	1
11031	1234678-HpCDD	35822-46-9	20.8	B	0.0596	5.85	1
11031	OCDD	3268-87-9	354	B	0.0539	11.7	1
11031	2378-TCDF	51207-31-9	0.156	JBQ	0.0673	1.17	1
11031	12378-PeCDF	57117-41-6	0.199	JBQ	0.0388	5.85	1
11031	23478-PeCDF	57117-31-4	0.441	JB	0.0376	5.85	1
11031	123478-HxCDF	70648-26-9	0.440	JB	0.0562	5.85	1
11031	123678-HxCDF	57117-44-9	0.252	JBQ	0.0493	5.85	1
11031	123789-HxCDF	72918-21-9	0.367	JB	0.0548	5.85	1
11031	234678-HxCDF	60851-34-5	0.286	JB	0.0484	5.85	1
11031	1234678-HpCDF	67562-39-4	2.86	JB	0.0222	5.85	1
11031	1234789-HpCDF	55673-89-7	0.262	JB	0.0326	5.85	1
11031	OCDF	39001-02-0	6.83	JB	0.0507	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SS-0.0-0.5

LLI Sample # SW 6211486
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:00

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD056 SDG#: DX053-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SS-0.0-0.5

LLI Sample # SW 6211486
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:00

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD056 SDG#: DX053-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/04/2011 16:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-057-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5A-SS-0.0-0.5

LLI Sample # SW 6211487
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 12:00

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD057 SDG#: DX053-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-057-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5A-SS-0.0-0.5

LLI Sample # SW 6211487
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 12:00

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD057 SDG#: DX053-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0451	U	0.0451	1.17	1
11031	12378-PeCDD	40321-76-4	0.354	JBQ	0.0536	5.87	1
11031	123478-HxCDD	39227-28-6	0.917	JBQ	0.0741	5.87	1
11031	123678-HxCDD	57653-85-7	3.29	JB	0.0773	5.87	1
11031	123789-HxCDD	19408-74-3	1.71	JB	0.0750	5.87	1
11031	1234678-HpCDD	35822-46-9	93.5	B	0.100	5.87	1
11031	OCDD	3268-87-9	1,150	B	0.0673	11.7	1
11031	2378-TCDF	51207-31-9	0.199	JBQ	0.0689	1.17	1
11031	12378-PeCDF	57117-41-6	0.462	JB	0.0465	5.87	1
11031	23478-PeCDF	57117-31-4	0.806	JBQ	0.0423	5.87	1
11031	123478-HxCDF	70648-26-9	0.683	JB	0.0648	5.87	1
11031	123678-HxCDF	57117-44-9	0.500	JB	0.0576	5.87	1
11031	123789-HxCDF	72918-21-9	0.748	JBQ	0.0707	5.87	1
11031	234678-HxCDF	60851-34-5	0.576	JBQ	0.0599	5.87	1
11031	1234678-HpCDF	67562-39-4	6.93	B	0.0332	5.87	1
11031	1234789-HpCDF	55673-89-7	0.472	JB	0.0472	5.87	1
11031	OCDF	39001-02-0	10.6	JB	0.0582	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-057-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5A-SS-0.0-0.5

LLI Sample # SW 6211487
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 12:00

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD057 SDG#: DX053-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-057-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5A-SS-0.0-0.5

LLI Sample # SW 6211487
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 12:00

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD057 SDG#: DX053-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/04/2011 17:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SS-0.0-0.5

LLI Sample # SW 6211488
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 13:40

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX053-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-058-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SS-0.0-0.5

LLI Sample # SW 6211488
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 13:40

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX053-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0382	U	0.0382	1.18	1
11031	12378-PeCDD	40321-76-4	0.322	JB	0.0501	5.88	1
11031	123478-HxCDD	39227-28-6	0.568	JBQ	0.0925	5.88	1
11031	123678-HxCDD	57653-85-7	1.23	JB	0.0918	5.88	1
11031	123789-HxCDD	19408-74-3	1.23	JB	0.0722	5.88	1
11031	1234678-HpCDD	35822-46-9	22.2	B	0.0684	5.88	1
11031	OCDD	3268-87-9	266	B	0.0442	11.8	1
11031	2378-TCDF	51207-31-9	0.0515	U	0.0515	1.18	1
11031	12378-PeCDF	57117-41-6	0.162	JBQ	0.0313	5.88	1
11031	23478-PeCDF	57117-31-4	0.318	JB	0.0304	5.88	1
11031	123478-HxCDF	70648-26-9	0.473	JB	0.0898	5.88	1
11031	123678-HxCDF	57117-44-9	0.240	JB	0.0645	5.88	1
11031	123789-HxCDF	72918-21-9	0.477	JB	0.0345	5.88	1
11031	234678-HxCDF	60851-34-5	0.224	JBQ	0.0340	5.88	1
11031	1234678-HpCDF	67562-39-4	2.13	JB	0.0406	5.88	1
11031	1234789-HpCDF	55673-89-7	0.168	JB	0.0316	5.88	1
11031	OCDF	39001-02-0	4.65	JB	0.0479	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	62	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	30	26 - 152
13C12-123678-HxCDF	40	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SS-0.0-0.5

LLI Sample # SW 6211488
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 13:40

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX053-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SS-0.0-0.5

LLI Sample # SW 6211488
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 13:40

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX053-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/04/2011 18:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-059-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SS-0.0-0.5

LLI Sample # SW 6211489
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:20

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX053-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-059-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SS-0.0-0.5

LLI Sample # SW 6211489
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:20

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX053-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0330	U	0.0330	1.20	1
11031	12378-PeCDD	40321-76-4	0.197	JB	0.0361	6.00	1
11031	123478-HxCDD	39227-28-6	0.307	JBQ	0.0696	6.00	1
11031	123678-HxCDD	57653-85-7	0.976	JBQ	0.0678	6.00	1
11031	123789-HxCDD	19408-74-3	0.762	JB	0.0481	6.00	1
11031	1234678-HpCDD	35822-46-9	20.4	B	0.0639	6.00	1
11031	OCDD	3268-87-9	362	B	0.0379	12.0	1
11031	2378-TCDF	51207-31-9	0.258	JBQ	0.0521	1.20	1
11031	12378-PeCDF	57117-41-6	0.250	JBQ	0.0346	6.00	1
11031	23478-PeCDF	57117-31-4	0.499	JB	0.0388	6.00	1
11031	123478-HxCDF	70648-26-9	0.671	JB	0.108	6.00	1
11031	123678-HxCDF	57117-44-9	0.388	JB	0.0765	6.00	1
11031	123789-HxCDF	72918-21-9	0.517	JB	0.0406	6.00	1
11031	234678-HxCDF	60851-34-5	0.328	JB	0.0400	6.00	1
11031	1234678-HpCDF	67562-39-4	3.42	JB	0.0395	6.00	1
11031	1234789-HpCDF	55673-89-7	0.247	JB	0.0289	6.00	1
11031	OCDF	39001-02-0	6.63	JB	0.0505	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	57	32 - 141
13C12-123678-HxCDD	60	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	37	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SS-0.0-0.5

LLI Sample # SW 6211489
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:20

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX053-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SS-0.0-0.5

LLI Sample # SW 6211489
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:20

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX053-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/04/2011 19:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401A	03/03/2011 18:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-060-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SS-0.0-0.5

LLI Sample # SW 6211490
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:55

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD060 SDG#: DX053-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-060-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SS-0.0-0.5

LLI Sample # SW 6211490
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:55

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD060 SDG#: DX053-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0615	JB	0.0446	1.16	1
11031	12378-PeCDD	40321-76-4	0.303	JBQ	0.0414	5.79	1
11031	123478-HxCDD	39227-28-6	0.292	JB	0.0691	5.79	1
11031	123678-HxCDD	57653-85-7	0.812	JB	0.0693	5.79	1
11031	123789-HxCDD	19408-74-3	0.715	JB	0.0686	5.79	1
11031	1234678-HpCDD	35822-46-9	20.2	B	0.0707	5.79	1
11031	OCDD	3268-87-9	364	B	0.0440	11.6	1
11031	2378-TCDF	51207-31-9	0.235	JBQ	0.0679	1.16	1
11031	12378-PeCDF	57117-41-6	0.391	JB	0.0373	5.79	1
11031	23478-PeCDF	57117-31-4	0.641	JB	0.0392	5.79	1
11031	123478-HxCDF	70648-26-9	0.612	JB	0.0845	5.79	1
11031	123678-HxCDF	57117-44-9	0.366	JB	0.0621	5.79	1
11031	123789-HxCDF	72918-21-9	0.510	JB	0.0565	5.79	1
11031	234678-HxCDF	60851-34-5	0.344	JB	0.0523	5.79	1
11031	1234678-HpCDF	67562-39-4	3.29	JB	0.0298	5.79	1
11031	1234789-HpCDF	55673-89-7	0.234	JB	0.0333	5.79	1
11031	OCDF	39001-02-0	5.20	JB	0.0502	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-060-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SS-0.0-0.5

LLI Sample # SW 6211490
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:55

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD060 SDG#: DX053-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-060-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SS-0.0-0.5

LLI Sample # SW 6211490
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:55

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD060 SDG#: DX053-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/04/2011 20:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401B	03/03/2011 18:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-061-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SS-0.0-0.5

LLI Sample # SW 6211491
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:35

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD061 SDG#: DX053-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-061-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SS-0.0-0.5

LLI Sample # SW 6211491
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:35

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD061 SDG#: DX053-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0582	JBQ	0.0314	1.18	1
11031	12378-PeCDD	40321-76-4	0.258	JBQ	0.0362	5.88	1
11031	123478-HxCDD	39227-28-6	0.382	JBQ	0.0655	5.88	1
11031	123678-HxCDD	57653-85-7	0.883	JBQ	0.0689	5.88	1
11031	123789-HxCDD	19408-74-3	0.747	JB	0.0624	5.88	1
11031	1234678-HpCDD	35822-46-9	25.3	B	0.0586	5.88	1
11031	OCDD	3268-87-9	395	B	0.0408	11.8	1
11031	2378-TCDF	51207-31-9	0.164	JBQ	0.0438	1.18	1
11031	12378-PeCDF	57117-41-6	0.248	JBQ	0.0286	5.88	1
11031	23478-PeCDF	57117-31-4	0.358	JB	0.0277	5.88	1
11031	123478-HxCDF	70648-26-9	0.468	JB	0.0550	5.88	1
11031	123678-HxCDF	57117-44-9	0.234	JB	0.0431	5.88	1
11031	123789-HxCDF	72918-21-9	0.401	JB	0.0479	5.88	1
11031	234678-HxCDF	60851-34-5	0.301	JB	0.0434	5.88	1
11031	1234678-HpCDF	67562-39-4	3.43	JB	0.0196	5.88	1
11031	1234789-HpCDF	55673-89-7	0.237	JB	0.0287	5.88	1
11031	OCDF	39001-02-0	5.54	JB	0.0423	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-061-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SS-0.0-0.5

LLI Sample # SW 6211491
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:35

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD061 SDG#: DX053-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-061-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SS-0.0-0.5

LLI Sample # SW 6211491
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:35

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD061 SDG#: DX053-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/04/2011 21:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401B	03/03/2011 18:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-062-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5A-SS-0.0-0.5

LLI Sample # SW 6211492
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:05

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD062 SDG#: DX053-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-062-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5A-SS-0.0-0.5

LLI Sample # SW 6211492
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:05

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD062 SDG#: DX053-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0765	JBQ	0.0516	1.17	1
11031	12378-PeCDD	40321-76-4	0.214	JBQ	0.0475	5.87	1
11031	123478-HxCDD	39227-28-6	0.307	JB	0.0743	5.87	1
11031	123678-HxCDD	57653-85-7	0.547	JBQ	0.0776	5.87	1
11031	123789-HxCDD	19408-74-3	0.474	JBQ	0.0707	5.87	1
11031	1234678-HpCDD	35822-46-9	13.0	B	0.0674	5.87	1
11031	OCDD	3268-87-9	192	B	0.0620	11.7	1
11031	2378-TCDF	51207-31-9	0.127	JB	0.0746	1.17	1
11031	12378-PeCDF	57117-41-6	0.211	JBQ	0.0424	5.87	1
11031	23478-PeCDF	57117-31-4	0.412	JB	0.0434	5.87	1
11031	123478-HxCDF	70648-26-9	0.518	JB	0.0670	5.87	1
11031	123678-HxCDF	57117-44-9	0.244	JB	0.0532	5.87	1
11031	123789-HxCDF	72918-21-9	0.311	JB	0.0624	5.87	1
11031	234678-HxCDF	60851-34-5	0.260	JBQ	0.0504	5.87	1
11031	1234678-HpCDF	67562-39-4	2.12	JB	0.0378	5.87	1
11031	1234789-HpCDF	55673-89-7	0.294	JB	0.0525	5.87	1
11031	OCDF	39001-02-0	4.93	JB	0.0732	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-062-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5A-SS-0.0-0.5

LLI Sample # SW 6211492
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:05

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD062 SDG#: DX053-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-062-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5A-SS-0.0-0.5

LLI Sample # SW 6211492
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:05

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD062 SDG#: DX053-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 01:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401B	03/03/2011 18:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-063-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5A-SS-0.0-0.5

LLI Sample # SW 6211493
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:58

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD063 SDG#: DX053-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-063-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5A-SS-0.0-0.5

LLI Sample # SW 6211493
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:58

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD063 SDG#: DX053-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0895	JBQ	0.0393	1.17	1
11031	12378-PeCDD	40321-76-4	0.266	JB	0.0394	5.86	1
11031	123478-HxCDD	39227-28-6	0.342	JB	0.0696	5.86	1
11031	123678-HxCDD	57653-85-7	1.08	JB	0.0698	5.86	1
11031	123789-HxCDD	19408-74-3	1.02	JB	0.0679	5.86	1
11031	1234678-HpCDD	35822-46-9	33.9	B	0.0748	5.86	1
11031	OCDD	3268-87-9	424	B	0.0579	11.7	1
11031	2378-TCDF	51207-31-9	0.306	JBQ	0.0739	1.17	1
11031	12378-PeCDF	57117-41-6	0.210	JBQ	0.0381	5.86	1
11031	23478-PeCDF	57117-31-4	0.474	JB	0.0386	5.86	1
11031	123478-HxCDF	70648-26-9	0.643	JBQ	0.0714	5.86	1
11031	123678-HxCDF	57117-44-9	0.344	JBQ	0.0528	5.86	1
11031	123789-HxCDF	72918-21-9	0.357	JB	0.0600	5.86	1
11031	234678-HxCDF	60851-34-5	0.532	JB	0.0502	5.86	1
11031	1234678-HpCDF	67562-39-4	9.47	B	0.0300	5.86	1
11031	1234789-HpCDF	55673-89-7	1.18	JB	0.0427	5.86	1
11031	OCDF	39001-02-0	42.0	B	0.0463	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-063-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5A-SS-0.0-0.5

LLI Sample # SW 6211493
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:58

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD063 SDG#: DX053-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-063-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5A-SS-0.0-0.5

LLI Sample # SW 6211493
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:58

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD063 SDG#: DX053-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 02:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401B	03/03/2011 18:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-064-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SS-0.0-0.5

LLI Sample # SW 6211494
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:35

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD064 SDG#: DX053-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-064-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SS-0.0-0.5

LLI Sample # SW 6211494
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:35

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD064 SDG#: DX053-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0499	U	0.0499	1.16	1
11031	12378-PeCDD	40321-76-4	0.127	JBQ	0.0500	5.80	1
11031	123478-HxCDD	39227-28-6	0.186	JBQ	0.0702	5.80	1
11031	123678-HxCDD	57653-85-7	0.458	JBQ	0.0689	5.80	1
11031	123789-HxCDD	19408-74-3	0.514	JB	0.0672	5.80	1
11031	1234678-HpCDD	35822-46-9	8.54	B	0.0683	5.80	1
11031	OCDD	3268-87-9	100	B	0.0487	11.6	1
11031	2378-TCDF	51207-31-9	0.0921	JBQ	0.0763	1.16	1
11031	12378-PeCDF	57117-41-6	0.127	JBQ	0.0436	5.80	1
11031	23478-PeCDF	57117-31-4	0.279	JBQ	0.0408	5.80	1
11031	123478-HxCDF	70648-26-9	0.196	JB	0.0541	5.80	1
11031	123678-HxCDF	57117-44-9	0.155	JBQ	0.0485	5.80	1
11031	123789-HxCDF	72918-21-9	0.226	JBQ	0.0566	5.80	1
11031	234678-HxCDF	60851-34-5	0.167	JB	0.0474	5.80	1
11031	1234678-HpCDF	67562-39-4	1.65	JB	0.0326	5.80	1
11031	1234789-HpCDF	55673-89-7	0.178	JBQ	0.0500	5.80	1
11031	OCDF	39001-02-0	4.56	JB	0.0664	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-064-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SS-0.0-0.5

LLI Sample # SW 6211494
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:35

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD064 SDG#: DX053-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-064-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SS-0.0-0.5

LLI Sample # SW 6211494
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 09:35

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD064 SDG#: DX053-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 03:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401B	03/03/2011 18:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-095-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5A-SS-0.0-0.5

LLI Sample # SW 6211495
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 15:00

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD095 SDG#: DX053-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	18.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5A-SS-0.0-0.5

LLI Sample # SW 6211495
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 15:00

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD095 SDG#: DX053-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.124	JB	0.0360	1.23	1
11031	12378-PeCDD	40321-76-4	0.873	JB	0.0621	6.13	1
11031	123478-HxCDD	39227-28-6	1.52	JB	0.0809	6.13	1
11031	123678-HxCDD	57653-85-7	3.87	JB	0.0813	6.13	1
11031	123789-HxCDD	19408-74-3	3.27	JB	0.0750	6.13	1
11031	1234678-HpCDD	35822-46-9	98.4	B	0.0818	6.13	1
11031	OCDD	3268-87-9	1,550	B	0.0802	12.3	1
11031	2378-TCDF	51207-31-9	1.10	JB	0.116	1.23	1
11031	12378-PeCDF	57117-41-6	0.648	JBQ	0.0634	6.13	1
11031	23478-PeCDF	57117-31-4	1.59	JB	0.0596	6.13	1
11031	123478-HxCDF	70648-26-9	1.14	JB	0.0780	6.13	1
11031	123678-HxCDF	57117-44-9	0.727	JB	0.0622	6.13	1
11031	123789-HxCDF	72918-21-9	0.380	JB	0.0620	6.13	1
11031	234678-HxCDF	60851-34-5	0.832	JB	0.0571	6.13	1
11031	1234678-HpCDF	67562-39-4	9.22	B	0.0347	6.13	1
11031	1234789-HpCDF	55673-89-7	0.603	JB	0.0389	6.13	1
11031	OCDF	39001-02-0	22.2	B	0.0490	12.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-095-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5A-SS-0.0-0.5

LLI Sample # SW 6211495
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 15:00

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD095 SDG#: DX053-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-095-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5A-SS-0.0-0.5

LLI Sample # SW 6211495
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 15:00

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD095 SDG#: DX053-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 04:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162401B	03/03/2011 18:45	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-025-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SB-4.5-5.5

LLI Sample # SW 6211496
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:44

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD025 SDG#: DX053-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-025-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SB-4.5-5.5

LLI Sample # SW 6211496
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:44

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD025 SDG#: DX053-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0438 U	0.0438	1.15	1
11031	12378-PeCDD	40321-76-4	0.0476 JBQ	0.0382	5.73	1
11031	123478-HxCDD	39227-28-6	0.0375 JBQ	0.0239	5.73	1
11031	123678-HxCDD	57653-85-7	0.0387 JB	0.0252	5.73	1
11031	123789-HxCDD	19408-74-3	0.0670 JBQ	0.0231	5.73	1
11031	1234678-HpCDD	35822-46-9	0.211 JB	0.0366	5.73	1
11031	OCDD	3268-87-9	1.01 JB	0.0365	11.5	1
11031	2378-TCDF	51207-31-9	0.0469 U	0.0469	1.15	1
11031	12378-PeCDF	57117-41-6	0.0525 JBQ	0.0257	5.73	1
11031	23478-PeCDF	57117-31-4	0.0704 JBQ	0.0242	5.73	1
11031	123478-HxCDF	70648-26-9	0.0544 JBQ	0.0195	5.73	1
11031	123678-HxCDF	57117-44-9	0.0486 JB	0.0156	5.73	1
11031	123789-HxCDF	72918-21-9	0.0896 JBQ	0.0182	5.73	1
11031	234678-HxCDF	60851-34-5	0.0452 JB	0.0155	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0545 JB	0.0150	5.73	1
11031	1234789-HpCDF	55673-89-7	0.119 JBQ	0.0244	5.73	1
11031	OCDF	39001-02-0	0.209 JBQ	0.0522	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SB-4.5-5.5

LLI Sample # SW 6211496
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:44

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD025 SDG#: DX053-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SB-4.5-5.5

LLI Sample # SW 6211496
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 11:44

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD025 SDG#: DX053-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 05:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11068162401A	03/09/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SB-3.5-4.5

LLI Sample # SW 6211497
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:20

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD028 SDG#: DX053-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-028-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SB-3.5-4.5

LLI Sample # SW 6211497
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:20

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD028 SDG#: DX053-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0306 U	0.0306	1.11	1
11031	12378-PeCDD	40321-76-4	0.0323 JBQ	0.0261	5.57	1
11031	123478-HxCDD	39227-28-6	0.0319 JBQ	0.0200	5.57	1
11031	123678-HxCDD	57653-85-7	0.0354 JBQ	0.0193	5.57	1
11031	123789-HxCDD	19408-74-3	0.0659 JBQ	0.0186	5.57	1
11031	1234678-HpCDD	35822-46-9	0.194 JB	0.0280	5.57	1
11031	OCDD	3268-87-9	0.553 JB	0.0295	11.1	1
11031	2378-TCDF	51207-31-9	0.0294 U	0.0294	1.11	1
11031	12378-PeCDF	57117-41-6	0.0579 JBQ	0.0170	5.57	1
11031	23478-PeCDF	57117-31-4	0.0444 JBQ	0.0173	5.57	1
11031	123478-HxCDF	70648-26-9	0.0360 JBQ	0.0196	5.57	1
11031	123678-HxCDF	57117-44-9	0.0370 JBQ	0.0148	5.57	1
11031	123789-HxCDF	72918-21-9	0.0650 JB	0.0160	5.57	1
11031	234678-HxCDF	60851-34-5	0.0434 JB	0.0141	5.57	1
11031	1234678-HpCDF	67562-39-4	0.0395 JBQ	0.0107	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0343 JBQ	0.0173	5.57	1
11031	OCDF	39001-02-0	0.210 JBQ	0.0392	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SB-3.5-4.5

LLI Sample # SW 6211497
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:20

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD028 SDG#: DX053-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SB-3.5-4.5

LLI Sample # SW 6211497
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 10:20

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD028 SDG#: DX053-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 06:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11068162401A	03/09/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SB-3.0-4.0

LLI Sample # SW 6211498
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:48

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD029 SDG#: DX053-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-029-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SB-3.0-4.0

LLI Sample # SW 6211498
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:48

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD029 SDG#: DX053-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0269 U	0.0269	1.08	1
11031	12378-PeCDD	40321-76-4	0.0872 JB	0.0256	5.38	1
11031	123478-HxCDD	39227-28-6	0.0364 JB	0.0187	5.38	1
11031	123678-HxCDD	57653-85-7	0.0189 U	0.0189	5.38	1
11031	123789-HxCDD	19408-74-3	0.0846 JBQ	0.0181	5.38	1
11031	1234678-HpCDD	35822-46-9	0.158 JB	0.0229	5.38	1
11031	OCDD	3268-87-9	0.539 JB	0.0273	10.8	1
11031	2378-TCDF	51207-31-9	0.0276 JBQ	0.0273	1.08	1
11031	12378-PeCDF	57117-41-6	0.0904 JB	0.0157	5.38	1
11031	23478-PeCDF	57117-31-4	0.0857 JBQ	0.0155	5.38	1
11031	123478-HxCDF	70648-26-9	0.0708 JBQ	0.0170	5.38	1
11031	123678-HxCDF	57117-44-9	0.0546 JB	0.0131	5.38	1
11031	123789-HxCDF	72918-21-9	0.0841 JBQ	0.0138	5.38	1
11031	234678-HxCDF	60851-34-5	0.0361 JBQ	0.0126	5.38	1
11031	1234678-HpCDF	67562-39-4	0.0584 JBQ	0.00914	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0432 JBQ	0.0158	5.38	1
11031	OCDF	39001-02-0	0.173 JB	0.0404	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-029-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SB-3.0-4.0

LLI Sample # SW 6211498
LLI Group # 1234083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/21/2011 14:48

Submitted: 02/22/2011 09:45
Reported: 03/22/2011 18:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD029 SDG#: DX053-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-029-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SB-3.0-4.0

LLI Sample # SW 6211498
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD029 SDG#: DX053-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 07:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11068162401A	03/09/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234083
Reported: 03/22/11 at 06:03 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11062162401A	Sample number(s): 6211484-6211489								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11062162401B	Sample number(s): 6211490-6211495								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11068162401A	Sample number(s): 6211496-6211498								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11057001	Sample number(s): 6211484-6211498								
2378-TCDD	0.0468 J	0.0287	1.00	ng/kg	92		67-158		
12378-PeCDD	0.118 J	0.0255	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0590 J	0.0234	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0797 J	0.0241	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0674 J	0.0228	5.00	ng/kg	98		64-162		
1234678-HpCDD	0.159 J	0.0271	5.00	ng/kg	97		70-140		
OCDD	0.371 J	0.0222	10.0	ng/kg	99		78-144		
2378-TCDF	0.0703 J	0.0325	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0756 J	0.0194	5.00	ng/kg	94		80-134		
23478-PeCDF	0.103 J	0.0199	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0857 J	0.0202	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0722 J	0.0163	5.00	ng/kg	102		84-130		
123789-HxCDF	0.111 J	0.0168	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0746 J	0.0150	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.0843 J	0.0125	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.0903 J	0.0140	5.00	ng/kg	101		78-138		
OCDF	0.219 J	0.0355	10.0	ng/kg	102		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11062162401A	Sample number(s): 6211484-6211489					BKG: P211466			
28a Moisture Content by 160.3						14.8	14.5	2	20
Batch number: 11062162401B	Sample number(s): 6211490-6211495					BKG: P211469			
28a Moisture Content by 160.3						13.7	13.7	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234083
Reported: 03/22/11 at 06:03 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11068162401A	Sample number(s): 6211496-6211498					BKG: P211475			
28a Moisture Content by 160.3						12.8	12.3	4	20
Batch number: 11057001	Sample number(s): 6211484-6211498 UNSPK: P214511								
2378-TCDD	93	97	67-158	4	25				
12378-PeCDD	100	99	70-142	1	25				
123478-HxCDD	100	100	70-164	0	25				
123678-HxCDD	100	99	76-134	1	25				
123789-HxCDD	101	100	64-162	1	25				
1234678-HpCDD	99	99	70-140	1	25				
OCDD	100	99	78-144	1	25				
2378-TCDF	98	98	75-158	1	25				
12378-PeCDF	97	98	80-134	2	25				
23478-PeCDF	99	100	68-160	1	25				
123478-HxCDF	99	101	72-134	2	25				
123678-HxCDF	100	102	84-130	2	25				
123789-HxCDF	98	99	78-130	1	25				
234678-HxCDF	102	102	70-156	0	25				
1234678-HpCDF	101	100	82-122	0	25				
1234789-HpCDF	101	100	78-138	1	25				
OCDF	101	101	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11057001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6211484	83	70	44	58	75	77
6211485	79	77	58	72	73	73
6211486	76	79	69	78	76	76
6211487	71	72	67	74	69	65
6211488	78	65	30	40	70	74
6211489	77	62	27	37	68	74
6211490	73	68	45	60	69	70
6211491	79	73	62	77	74	72
6211492	71	65	57	71	71	63
6211493	72	75	54	72	74	66
6211494	77	74	69	78	78	72
6211495	83	82	62	75	79	79
6211496	68	67	61	76	72	68
6211497	71	66	52	69	68	64
6211498	73	70	56	71	71	68
Blank	90	72	62	76	80	76
MS	71	68	58	69	69	69
MSD	75	69	49	61	73	79

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234083
Reported: 03/22/11 at 06:03 PM

Surrogate Quality Control

OPR	90	73	58	73	69	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6211484	55	69	68	89	81	76
6211485	78	70	66	89	85	80
6211486	92	70	68	93	86	85
6211487	84	66	62	82	79	78
6211488	48	69	60	80	73	62
6211489	42	65	52	80	76	57
6211490	69	68	60	89	78	77
6211491	86	66	61	90	80	83
6211492	79	62	58	85	75	77
6211493	86	65	61	86	87	81
6211494	94	71	66	89	81	84
6211495	76	75	73	93	89	84
6211496	92	65	57	85	75	80
6211497	84	57	49	83	75	75
6211498	86	56	48	87	79	76
Blank	73	70	76	104	87	84
MS	73	65	63	84	77	76
MSD	63	70	66	89	79	71
OPR	73	55	52	112	91	80
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6211484	79	80	67	83	72	70
6211485	81	81	80	79	72	82
6211486	84	83	82	82	70	84
6211487	80	79	75	76	63	71
6211488	66	81	76	77	69	71
6211489	60	79	72	75	68	73
6211490	78	79	76	77	66	76
6211491	82	84	79	80	69	78
6211492	76	78	76	80	64	73
6211493	84	84	82	84	65	87
6211494	87	90	83	84	67	76
6211495	86	87	81	84	73	85
6211496	78	82	81	81	61	73
6211497	80	82	74	73	63	76
6211498	78	80	73	72	65	78
Blank	86	86	84	91	79	81
MS	77	75	74	74	64	74
MSD	75	80	75	78	69	76
OPR	79	74	70	71	60	82
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013/ 1239383 / G211484-99

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphanyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
Samplers Signatures:																											Amended COC
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-025-SA5A-SB-4.5-5.5	2.21.2011	1144	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-025-SA5A-SB-5.0	2.21.2011	1139	SOIL	NONE	5-Encores									X	X	X										
SL-028-SA5A-SB-3.5-4.5	2.21.2011	1020	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-028-SA5A-SB-4.0	2.21.2011	1015	SOIL	NONE	5-Encores									X	X	X										
SL-029-SA5A-SB-3.0-4.0	2.21.2011	1448	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-029-SA5A-SB-3.5	2.21.2011	1441	SOIL	NONE	5-Encores									X	X	X										
SL-030-SA5A-SB-4.0-5.0	2.21.2011	1603	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-030-SA5A-SB-4.5	2.21.2011	1558	SOIL	NONE	5-Encores									X	X	X										
TB-022111	2.21.2011	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X										TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 02/21/2011 / 17:00		Received for Laboratory by: (*Signature*)																							Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8695 1432 3195, 8695 1432 3200																							No. of coolers = 2

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Tuesday, March 08, 2011 5:19 PM
To: Nicole Maljovec
Cc: Crites, Ann Marie
Subject: Revised COC for 2.21.11
Attachments: COC_02_21_11.xls

Nicole – see attached COC with corrected sample numbers on page 2 (in red font). Please revise the records in your system!

Thanks to Ann Marie for catching those boo-boos!

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

13013 | 234083 6211484-99

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: Metals EPA 6010/6020/7471A	Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs by SIM	PCBs by EPA 8082	Dioxins/Furans EPA 1613B	Perchlorate EPA 314.0	Hex Chrome EPA 7199@	Percent Moisture by EPA 8430 (%)$	SS ONLY: Perchlorate EPA 6850 (Analyzed at Lancaster)	Perchlorate EPA 8151A (Analyzed at Eurofins)	Other Instructions and Notes
SL-054-SA5A-SS-0.0-0.5	2.21.2011	1445	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-054-SA5A-SS-0.0-0.5	2.21.2011	1445	SOIL	NONE	1-6 inch sleeve			X	X							
SL-055-SA5A-SS-0.0-0.5	2.21.2011	1427	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-055-SA5A-SS-0.0-0.5	2.21.2011	1427	SOIL	NONE	1-6 inch sleeve			X	X							
SL-056-SA5A-SS-0.0-0.5	2.21.2011	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-056-SA5A-SS-0.0-0.5	2.21.2011	1400	SOIL	NONE	1-6 inch sleeve			X	X							
SL-057-SA5A-SS-0.0-0.5	2.21.2011	1200	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-057-SA5A-SS-0.0-0.5	2.21.2011	1200	SOIL	NONE	1-6 inch sleeve			X	X							
SL-058-SA5A-SS-0.0-0.5	2.21.2011	1340	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-058-SA5A-SS-0.0-0.5	2.21.2011	1340	SOIL	NONE	1-6 inch sleeve			X	X							
SL-059-SA5A-SS-0.0-0.5	2.21.2011	1120	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-059-SA5A-SS-0.0-0.5	2.21.2011	1120	SOIL	NONE	1-6 inch sleeve			X	X							
SL-060-SA5A-SS-0.0-0.5	2.21.2011	1055	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-060-SA5A-SS-0.0-0.5	2.21.2011	1055	SOIL	NONE	1-6 inch sleeve			X	X							
SL-061-SA5A-SS-0.0-0.5	2.21.2011	1035	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-061-SA5A-SS-0.0-0.5	2.21.2011	1035	SOIL	NONE	1-6 inch sleeve			X	X							
SL-062-SA5A-SS-0.0-0.5	2.21.2011	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-062-SA5A-SS-0.0-0.5	2.21.2011	0905	SOIL	NONE	1-6 inch sleeve			X	X							
SL-063-SA5A-SS-0.0-0.5	2.21.2011	0958	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-063-SA5A-SS-0.0-0.5	2.21.2011	0958	SOIL	NONE	1-6 inch sleeve			X	X							
SL-064-SA5A-SS-0.0-0.5	2.21.2011	0935	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-064-SA5A-SS-0.0-0.5	2.21.2011	0935	SOIL	NONE	1-6 inch sleeve			X	X							
SL-095-SA5A-SS-0.0-0.5	2.21.2011	1500	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-095-SA5A-SS-0.0-0.5	2.21.2011	1500	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (*Signature*)	Date/Time: 02/21/2011 / 17:00	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time: 2/22/11 / 0745	Airbill No.(s): 8695 1432 3195, 8695 1432 3200	No. of coolers = 2

13013 1234083 6211484-99

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						Thorium EPA 6010/6020/7471A	Radium EPA 9315	Uranium EPA 6020 & Plutonium EPA 9310 &M	PCBs/PCTs EPA 8082	Gamma Iron EPA 6010B	Perchlorate EPA 314.0	Hexavalent Chrome EPA 7196A	Perchlorate Confirmation by EPA 8850	Acetone EPA 8260B $	Methylene Chloride EPA 8260B/M $	TPH-GRO EPA 8015B $	TPH EPA 8015C	TPH-EHC EPA 8015B Mod	Thorium EPA 6020	Perchlorate EPA 314.0A	Uranium EPA 6020A	Hexavalent EPA 8330A	Nitrate EPA 9056	Thorium EPA 6010B	Nitrate EPA 9056	Nitrate EPA 9056		
SL-026-SA5A-SB-4.5-5.5	2.21.2011	1144	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-025-SA5A-SB-5.0	2.21.2011	1139	SOIL	NONE	5-Encores									X	X	X											
SL-028-SA5B-SB-3.5-4.5	2.21.2011	1020	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-028-SA5B-SB-4.0	2.21.2011	1015	SOIL	NONE	5-Encores									X	X	X											
SL-029-SA5B-SB-3.0-4.0	2.21.2011	1448	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-029-SA5B-SB-3.5	2.21.2011	1441	SOIL	NONE	5-Encores									X	X	X											
SL-030-SA5B-SB-4.0-5.0	2.21.2011	1603	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-030-SA5B-SB-4.5	2.21.2011	1558	SOIL	NONE	5-Encores									X	X	X											
TB-02211	2.21.2011	1630	WATER	HCL	6-40ml VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	02/21/2011 / 17:06		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	2/22/11 / 0715	8695 1432 3195, 8695 1432 3200	No. of coolers = 2

Anneliese H. Owen

From: Nancy J. Bornholm
Sent: Tuesday, February 22, 2011 1:14 PM
To: SA Env Entry
Cc: Nicole Maljovec
Subject: SAMPLE INFO 2/22 FED EX CDM
Importance: High

See note below regarding samples received today that should not be entered.

Thanks!
Nancy

Nancy Bornholm | Lancaster Laboratories, Inc. | Principal Project Manager - Env | Phone: 717.656.2300 x 1310 | Fax: 717.656.6766 | email: njbornholm@lancasterlabs.com

---

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Tuesday, February 22, 2011 1:09 PM
To: Nancy J. Bornholm
Subject: FW: Samples on 2/21/2011 COC that are not to be analyzed

Hi Nancy – I got Nicole's out of office notice, so I'm letting you know that the following samples shipped yesterday should not have been collected and therefore should not be analyzed.

SL-030-SA5B-SB-4.0-5.0
SL-030-SA5B-SB-4.5

Thanks, Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/23/2011
Group Number: 1234297
SDG: DE088
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-02-SA5A-QC-022211 Soil	6213414
SL-175-SA5A-SS-0.0-0.3 Soil	6213415
SL-180-SA5A-SS-0.0-0.5 Soil	6213416
SL-181-SA5A-SS-0.0-0.5 Soil	6213417
SL-181-SA5A-SS-0.0-0.5MS Soil	6213418
SL-181-SA5A-SS-0.0-0.5MSD Soil	6213419
SL-181-SA5A-SS-0.0-0.5DUP Soil	6213420
SL-196-SA5A-SS-0.0-0.5 Soil	6213421
SL-197-SA5A-SS-0.0-0.5 Soil	6213422
SL-210-SA5A-SS-0.0-0.5 Soil	6213423
SL-211-SA5A-SS-0.0-0.5 Soil	6213424
SL-212-SA5A-SS-0.0-0.5 Soil	6213425
SL-214-SA5A-SS-0.0-0.5 Soil	6213426
SL-215-SA5A-SS-0.0-0.5 Soil	6213427
SL-217-SA5A-SS-0.0-0.5 Soil	6213428
SL-218-SA5A-SS-0.0-0.5 Soil	6213429
SL-024-SA5A-SB-2.5-3.5 Soil	6213430
SL-026-SA5A-SB-3.5-4.5 Soil	6213431
SL-031-SA5A-SB-4.0-5.0 Soil	6213432
SL-035-SA5A-SB-4.0-5.0 Soil	6213433
TB-022211 Water	6213434

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-02-SA5A-QC-022211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5A-QC-022211

LLI Sample # SW 6213414
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8801 SDG#: DE088-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	32	J	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	34	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Chrysene	218-01-9	44	J	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	21	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	44	J	19	380		1
04688	Fluoranthene	206-44-0	58	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	28	J	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-02-SA5A-QC-022211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5A-QC-022211

LLI Sample # SW 6213414
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8801 SDG#: DE088-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenanthrene	85-01-8	36	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	62	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.6	J	0.77	1.9		1
10138	Acenaphthylene	208-96-8	2.4		0.38	1.9		1
10138	Anthracene	120-12-7	5.2		0.38	1.9		1
10138	Benzo(a)pyrene	50-32-8	43		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	63		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	24		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	30		6.9	21		1
10138	Di-n-butylphthalate	84-74-2	110		6.9	21		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	1.0	J	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.77	1.9		1
10138	Naphthalene	91-20-3	1.7	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.97	U	0.97	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	1,400		87	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.20		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-02-SA5A-QC-022211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5A-QC-022211

LLI Sample # SW 6213414
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8801 SDG#: DE088-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.24		0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	2.5	U	2.5	3.9		1
01363	p,p-DDD	72-54-8	2.2	U	2.2	2.2		1
01363	p,p-DDE	72-55-9	0.64	U	0.64	0.64		1
01363	p,p-DDT	50-29-3	2.7	U	2.7	2.7		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.70	U	0.70	0.70		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.40	U	0.40	0.40		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.20	U	0.20	0.20		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.8	U	5.8	19		2
10225	Aroclor 5442	12642-23-8	5.8	U	5.8	19		2
10225	Aroclor 5460	11126-42-4	200		5.8	19		2
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.8		2
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.8		2
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.8		2
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.8		2
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.8		2
10225	PCB-1254	11097-69-1	35		1.9	9.8		2
10225	PCB-1260	11096-82-5	21		2.2	9.8		2
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.8		2
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.8		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		5.67	22.6		1
07914	Boron	7440-42-8	2.80	J	1.00	5.64		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-02-SA5A-QC-022211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5A-QC-022211

LLI Sample # SW 6213414
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8801 SDG#: DE088-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	4,260		6.92	22.6		1
01654	Iron	7439-89-6	18,700		5.31	22.6		1
01656	Lithium	7439-93-2	22.7		0.25	2.3		1
01657	Magnesium	7439-95-4	4,160		2.87	11.3		1
06958	Manganese	7439-96-5	294		0.0880	0.564		1
10145	Phosphorus	7723-14-0	518		0.632	11.3		1
01662	Potassium	7440-09-7	2,580		20.3	56.4		1
01667	Sodium	7440-23-5	113		42.1	113		1
07968	Strontium	7440-24-6	24.9		0.0699	0.564		1
06969	Tin	7440-31-5	3.53	J	1.13	11.3		1
06970	Titanium	7440-32-6	965		0.429	1.13		1
10146	Zirconium	7440-67-7	3.38	J	0.948	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.216	J	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.95		0.0894	0.447		2
06126	Barium	7440-39-3	107		0.121	0.447		2
06127	Beryllium	7440-41-7	0.523		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.625		0.0447	0.112		2
06131	Chromium	7440-47-3	20.4		0.134	0.447		2
06132	Cobalt	7440-48-4	5.79		0.0223	0.112		2
06133	Copper	7440-50-8	12.8		0.0737	0.447		2
06135	Lead	7439-92-1	12.4		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.463		0.0559	0.112		2
06139	Nickel	7440-02-0	12.4		0.112	0.447		2
06141	Selenium	7782-49-2	0.144	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.183		0.0134	0.112		2
06145	Thallium	7440-28-0	0.238		0.0335	0.112		2
06148	Vanadium	7440-62-2	36.4		0.0246	0.112		2
06149	Zinc	7440-66-6	79.0		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0576	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.3		0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-02-SA5A-QC-022211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5A-QC-022211

LLI Sample # SW 6213414
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8801 SDG#: DE088-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	318	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.71	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 13:47	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/01/2011 16:53	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 14:09	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 05:22	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/15/2011 03:55	Richard A Shober	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/03/2011 23:26	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/03/2011 23:26	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/03/2011 23:26	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/03/2011 23:26	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 07:55	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/03/2011 23:26	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/03/2011 23:26	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 07:55	Joanne M Gates	1

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP-02-SA5A-QC-022211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5A-QC-022211

LLI Sample # SW 6213414
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8801 SDG#: DE088-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110565708004	03/03/2011 23:26	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/03/2011 23:26	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/03/2011 23:26	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/03/2011 23:26	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/03/2011 23:26	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 07:55	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:12	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:12	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:12	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:12	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:12	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:12	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 01:42	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:12	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:12	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:12	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:12	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:12	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:12	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:12	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:12	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:12	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202A	03/04/2011 12:30	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201A	03/04/2011 14:03	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11063243201A	03/07/2011 14:17	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202A	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201A	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101A	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401A	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-175-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5A-SS-0.0-0.3

LLI Sample # SW 6213415
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:52

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8802 SDG#: DE088-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-175-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5A-SS-0.0-0.3

LLI Sample # SW 6213415
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:52

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8802 SDG#: DE088-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	140	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	12		3.8	9.5		1
10138	Acenaphthylene	208-96-8	8.3	J	1.9	9.5		1
10138	Anthracene	120-12-7	85		1.9	9.5		1
10138	Benzo(a)anthracene	56-55-3	580		3.8	9.5		1
10138	Benzo(a)pyrene	50-32-8	490		3.8	9.5		1
10138	Benzo(b)fluoranthene	205-99-2	870		3.8	9.5		1
10138	Benzo(g,h,i)perylene	191-24-2	130		3.8	9.5		1
10138	Benzo(k)fluoranthene	207-08-9	310		3.8	9.5		1
10138	Chrysene	218-01-9	640		1.9	9.5		1
10138	Dibenz(a,h)anthracene	53-70-3	44		3.8	9.5		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	90	J	34	100		1
10138	Fluoranthene	206-44-0	1,000		3.8	9.5		1
10138	Fluorene	86-73-7	13		3.8	9.5		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	110		3.8	9.5		1
10138	1-Methylnaphthalene	90-12-0	9.8		3.8	9.5		1
10138	2-Methylnaphthalene	91-57-6	10		3.8	9.5		1
10138	Naphthalene	91-20-3	6.9	J	3.8	9.5		1
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.5		1
10138	Di-n-octylphthalate	117-84-0	110		34	100		1
10138	Phenanthrene	85-01-8	260		3.8	9.5		1
10138	Pyrene	129-00-0	910		3.8	9.5		1
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	8.0		0.71	1.9		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	140	U	140	290		1
10401	2,4,5-T	93-76-5	0.14	U	0.14	0.19		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds are affected.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-175-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5A-SS-0.0-0.3

LLI Sample # SW 6213415
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:52

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8802 SDG#: DE088-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.38	U	0.38	0.95		5
01363	Alpha BHC	319-84-6	0.19	U	0.19	0.95		5
01363	Beta BHC	319-85-7	0.34	U	0.34	0.95		5
01363	Gamma BHC - Lindane	58-89-9	0.19	U	0.19	0.95		5
01363	Chlordane	57-74-9	4.6	U	4.6	19		5
01363	p,p-DDD	72-54-8	1.0	U	1.0	1.9		5
01363	p,p-DDE	72-55-9	0.38	U	0.38	1.9		5
01363	p,p-DDT	50-29-3	5.8	U	5.8	5.8		5
01363	Delta BHC	319-86-8	0.21	U	0.21	0.95		5
01363	Dieldrin	60-57-1	1.2	U	1.2	1.9		5
01363	Endosulfan I	959-98-8	0.25	U	0.25	0.95		5
01363	Endosulfan II	33213-65-9	0.38	U	0.38	1.9		5
01363	Endosulfan Sulfate	1031-07-8	0.38	U	0.38	1.9		5
01363	Endrin	72-20-8	0.38	U	0.38	1.9		5
01363	Endrin Aldehyde	7421-93-4	0.70	U	0.70	1.9		5
01363	Endrin Ketone	53494-70-5	0.38	U	0.38	1.9		5
01363	Heptachlor	76-44-8	0.34	U	0.34	0.95		5
01363	Heptachlor Epoxide	1024-57-3	0.29	U	0.29	0.95		5
01363	Methoxychlor	72-43-5	1.9	U	1.9	9.5		5
01363	Mirex	2385-85-5	1.8	U	1.8	1.9		5
01363	Toxaphene	8001-35-2	13	U	13	38		5

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.9	U	2.9	9.4		1
10225	Aroclor 5442	12642-23-8	2.9	U	2.9	9.4		1
10225	Aroclor 5460	11126-42-4	16		2.9	9.4		1
10225	PCB-1016	12674-11-2	0.94	U	0.94	4.9		1
10225	PCB-1221	11104-28-2	0.94	U	0.94	4.9		1
10225	PCB-1232	11141-16-5	0.94	U	0.94	4.9		1
10225	PCB-1242	53469-21-9	0.94	U	0.94	4.9		1
10225	PCB-1248	12672-29-6	3.8	J	0.94	4.9		1
10225	PCB-1254	11097-69-1	38		0.94	4.9		1
10225	PCB-1260	11096-82-5	33		1.1	4.9		1
10225	PCB-1262	37324-23-5	0.94	U	0.94	4.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-175-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5A-SS-0.0-0.3

LLI Sample # SW 6213415
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:52

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8802 SDG#: DE088-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.94	U	0.94	4.9		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,560		5.64	22.4		1
07914	Boron	7440-42-8	3.71	J	0.998	5.61		1
01650	Calcium	7440-70-2	14,500		6.88	22.4		1
01654	Iron	7439-89-6	17,300		5.28	22.4		1
01656	Lithium	7439-93-2	10.5		0.25	2.2		1
01657	Magnesium	7439-95-4	5,020		2.85	11.2		1
06958	Manganese	7439-96-5	224		0.0875	0.561		1
10145	Phosphorus	7723-14-0	506		0.628	11.2		1
01662	Potassium	7440-09-7	2,400		20.2	56.1		1
01667	Sodium	7440-23-5	227		41.8	112		1
07968	Strontium	7440-24-6	41.3		0.0695	0.561		1
06969	Tin	7440-31-5	3.33	J	1.12	11.2		1
06970	Titanium	7440-32-6	791		0.426	1.12		1
10146	Zirconium	7440-67-7	4.46	J	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.247		0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.28		0.0915	0.458		2
06126	Barium	7440-39-3	96.0		0.124	0.458		2
06127	Beryllium	7440-41-7	0.247		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.878		0.0458	0.114		2
06131	Chromium	7440-47-3	25.8		0.137	0.458		2
06132	Cobalt	7440-48-4	4.49		0.0229	0.114		2
06133	Copper	7440-50-8	28.6		0.0755	0.458		2
06135	Lead	7439-92-1	27.1		0.0119	0.229		2
06138	Molybdenum	7439-98-7	1.80		0.0572	0.114		2
06139	Nickel	7440-02-0	18.7		0.114	0.458		2
06141	Selenium	7782-49-2	0.131	J	0.0458	0.458		2
06142	Silver	7440-22-4	0.508		0.0137	0.114		2
06145	Thallium	7440-28-0	0.139		0.0343	0.114		2
06148	Vanadium	7440-62-2	27.3		0.0252	0.114		2
06149	Zinc	7440-66-6	171		0.641	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.151		0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.98	J	0.92	1.1		1

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Sample Description: **SL-175-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5A-SS-0.0-0.3

LLI Sample # SW 6213415
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:52

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8802 SDG#: DE088-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	5.7		0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	343		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.16		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011	14:13	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/01/2011	20:33	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011	11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011	14:37	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110600022A	03/02/2011	19:31	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011	05:51	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/11/2011	23:05	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011	14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011	18:15	Sally L Appleyard	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-175-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5A-SS-0.0-0.3

LLI Sample # SW 6213415
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:52

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8802 SDG#: DE088-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110600022A	03/02/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/03/2011 23:30	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/03/2011 23:30	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/03/2011 23:30	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/03/2011 23:30	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 07:58	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/03/2011 23:30	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/03/2011 23:30	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 07:58	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/03/2011 23:30	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/03/2011 23:30	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/03/2011 23:30	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/03/2011 23:30	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/03/2011 23:30	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 07:58	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:15	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:15	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:15	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:15	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:15	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:15	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 01:44	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:15	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:15	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:15	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:15	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:15	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:15	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:15	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:15	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:15	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202A	03/04/2011 12:46	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201A	03/04/2011 14:27	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11063243201A	03/07/2011 14:29	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202A	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201A	03/04/2011 10:17	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-175-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5A-SS-0.0-0.3

LLI Sample # SW 6213415
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:52

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8802 SDG#: DE088-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	32a OR Potential	ASTM D1498	1	11055182101A	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401A	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

Sample Description: SL-180-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SS-0.0-0.5

LLI Sample # SW 6213416
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:35

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8803 SDG#: DE088-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-180-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SS-0.0-0.5

LLI Sample # SW 6213416
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:35

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8803 SDG#: DE088-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	1.3	J	0.38	1.9		1
10138	Anthracene	120-12-7	1.8	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	15		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	19		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	29		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	8.6		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	13		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	23		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	13	J	6.8	20		1
10138	Chrysene	218-01-9	22		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	2.1		0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	8.0	J	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	27		6.8	20		1
10138	Fluoranthene	206-44-0	30		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.7		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	7.5		0.76	1.9		1
10138	Pyrene	129-00-0	24		0.76	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	220	U	220	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-180-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SS-0.0-0.5

LLI Sample # SW 6213416
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:35

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8803 SDG#: DE088-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.15	U	0.15	0.39		1
01363	p,p-DDT	50-29-3	1.1	U	1.1	1.1		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.16	U	0.16	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.17	U	0.17	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.15	U	0.15	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	19		1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	14		0.38	2.0		1
10225	PCB-1260	11096-82-5	7.5		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-180-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SS-0.0-0.5

LLI Sample # SW 6213416
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:35

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8803 SDG#: DE088-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,800		5.63	22.4		1
07914	Boron	7440-42-8	3.77	J	0.997	5.60		1
01650	Calcium	7440-70-2	5,200		6.86	22.4		1
01654	Iron	7439-89-6	22,200		5.27	22.4		1
01656	Lithium	7439-93-2	27.0		0.24	2.2		1
01657	Magnesium	7439-95-4	5,260		2.84	11.2		1
06958	Manganese	7439-96-5	348		0.0873	0.560		1
10145	Phosphorus	7723-14-0	366		0.621	11.1		1
01662	Potassium	7440-09-7	2,880		20.2	56.0		1
01667	Sodium	7440-23-5	106	J	41.8	112		1
07968	Strontium	7440-24-6	27.6		0.0694	0.560		1
06969	Tin	7440-31-5	3.53	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,180		0.426	1.12		1
10146	Zirconium	7440-67-7	4.64	J	0.932	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.117	J	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.70		0.0896	0.448		2
06126	Barium	7440-39-3	115		0.121	0.448		2
06127	Beryllium	7440-41-7	0.594		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.210		0.0448	0.112		2
06131	Chromium	7440-47-3	21.8		0.134	0.448		2
06132	Cobalt	7440-48-4	6.18		0.0224	0.112		2
06133	Copper	7440-50-8	14.5		0.0739	0.448		2
06135	Lead	7439-92-1	12.3		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.425		0.0560	0.112		2
06139	Nickel	7440-02-0	13.2		0.112	0.448		2
06141	Selenium	7782-49-2	0.168	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.139		0.0134	0.112		2
06145	Thallium	7440-28-0	0.259		0.0336	0.112		2
06148	Vanadium	7440-62-2	38.9		0.0246	0.112		2
06149	Zinc	7440-66-6	236		1.57	8.40		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0152	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.23	1.2		1

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Sample Description: **SL-180-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SS-0.0-0.5

LLI Sample # SW 6213416
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:35

Submitted: 02/23/2011 10:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E8803 SDG#: DE088-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	331	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.87	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 14:40	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/01/2011 21:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 15:04	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 06:06	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 03:07	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/03/2011 23:42	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/03/2011 23:42	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/03/2011 23:42	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/03/2011 23:42	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 08:09	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/03/2011 23:42	John W Yanzuk II	1

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Sample Description: **SL-180-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SS-0.0-0.5

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E8803 SDG#: DE088-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110565708004	03/03/2011 23:42	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 08:09	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/03/2011 23:42	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/03/2011 23:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/03/2011 23:42	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/03/2011 23:42	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/03/2011 23:42	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 08:09	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:25	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:25	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:25	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:25	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:25	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:25	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 01:49	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:25	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:25	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:25	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:25	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:25	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:25	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:25	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:25	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/08/2011 02:18	David K Beck	5
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202A	03/04/2011 13:01	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201A	03/04/2011 15:15	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11063243201A	03/07/2011 14:36	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202A	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201A	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101A	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401A	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-181-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213417
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	82	J	19	190		1
04688	Benzo(a)pyrene	50-32-8	85	J	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	110	J	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	74	J	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	50	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Chrysene	218-01-9	120	J	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	22	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	45	J	19	380		1
04688	Fluoranthene	206-44-0	210		19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	56	J	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1

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Sample Description: SL-181-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213417
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenanthrene	85-01-8	140	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	190		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.4	J	0.77	1.9		1
10138	Acenaphthylene	208-96-8	2.7		0.39	1.9		1
10138	Anthracene	120-12-7	6.5		0.39	1.9		1
10138	Butylbenzylphthalate	85-68-7	25		7.0	21		1
10138	Di-n-butylphthalate	84-74-2	99		7.0	21		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	15	J	7.0	21		1
10138	Fluorene	86-73-7	2.7		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	1.2	J	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.6	J	0.77	1.9		1
10138	Naphthalene	91-20-3	1.4	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	1,300		88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.26		0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	1.5	U	1.5	4.0		1

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Sample Description: SL-181-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213417
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.55	U	0.55	0.55		1
01363	p,p-DDT	50-29-3	2.1	U	2.1	2.1		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.55	U	0.55	0.55		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.20	U	0.20	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.34	U	0.34	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.10	U	0.10	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.7		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.7		2
10225	Aroclor 5460	11126-42-4	21		2.3	7.7		2
10225	PCB-1016	12674-11-2	0.77	U	0.77	4.0		2
10225	PCB-1221	11104-28-2	0.77	U	0.77	4.0		2
10225	PCB-1232	11141-16-5	0.77	U	0.77	4.0		2
10225	PCB-1242	53469-21-9	0.77	U	0.77	4.0		2
10225	PCB-1248	12672-29-6	0.77	U	0.77	4.0		2
10225	PCB-1254	11097-69-1	28		0.77	4.0		2
10225	PCB-1260	11096-82-5	17		0.91	4.0		2
10225	PCB-1262	37324-23-5	0.77	U	0.77	4.0		2
10225	PCB-1268	11100-14-4	0.77	U	0.77	4.0		2

The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,500		5.80	23.1		1
07914	Boron	7440-42-8	3.28	J	1.03	5.77		1
01650	Calcium	7440-70-2	4,390		7.07	23.1		1
01654	Iron	7439-89-6	20,900		5.44	23.1		1

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Sample Description: **SL-181-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213417
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	19.4		0.26	2.3		1
01657	Magnesium	7439-95-4	4,870		2.93	11.5		1
06958	Manganese	7439-96-5	312		0.0900	0.577		1
10145	Phosphorus	7723-14-0	438		0.653	11.7		1
01662	Potassium	7440-09-7	3,030		20.8	57.7		1
01667	Sodium	7440-23-5	101	J	43.0	115		1
07968	Strontium	7440-24-6	23.2		0.0715	0.577		1
06969	Tin	7440-31-5	3.80	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,090		0.439	1.15		1
10146	Zirconium	7440-67-7	4.41	J	0.979	5.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.191	J	0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.54		0.0923	0.462		2
06126	Barium	7440-39-3	100		0.125	0.462		2
06127	Beryllium	7440-41-7	0.555		0.0185	0.115		2
06128	Cadmium	7440-43-9	0.540		0.0462	0.115		2
06131	Chromium	7440-47-3	22.7		0.138	0.462		2
06132	Cobalt	7440-48-4	5.50		0.0231	0.115		2
06133	Copper	7440-50-8	12.9		0.0762	0.462		2
06135	Lead	7439-92-1	12.7		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.481		0.0577	0.115		2
06139	Nickel	7440-02-0	12.5		0.115	0.462		2
06141	Selenium	7782-49-2	0.136	J	0.0462	0.462		2
06142	Silver	7440-22-4	0.186		0.0138	0.115		2
06145	Thallium	7440-28-0	0.267		0.0346	0.115		2
06148	Vanadium	7440-62-2	35.4		0.0254	0.115		2
06149	Zinc	7440-66-6	85.9		0.646	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0595	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	338		10.0	10.0		1

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Sample Description: **SL-181-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213417
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.85	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 12:29	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/01/2011 15:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 12:46	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 06:20	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 03:26	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/03/2011 23:03	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/03/2011 23:03	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/03/2011 23:03	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/03/2011 23:03	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 07:34	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/03/2011 23:03	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/03/2011 23:03	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 07:34	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-181-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213417
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110565708004	03/03/2011 23:03	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/03/2011 23:03	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/03/2011 23:03	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/03/2011 23:03	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/03/2011 23:03	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 07:34	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 17:54	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 17:54	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 17:54	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 17:54	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 17:54	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 17:54	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 01:31	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 17:54	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 17:54	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 17:54	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 17:54	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 17:54	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 17:54	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 17:54	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 17:54	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 17:54	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202A	03/04/2011 11:45	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201A	03/04/2011 12:50	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11063243201A	03/07/2011 14:48	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202A	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201A	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101A	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401A	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-181-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213418
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800	19	190		1
04688	Acenaphthylene	208-96-8	1,900	19	190		1
04688	Aniline	62-53-3	1,700	190	580		1
04688	Anthracene	120-12-7	2,000	19	190		1
04688	Benzidine	92-87-5	4,300	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	2,000	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,800	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700	19	190		1
04688	Benzoic acid	65-85-0	1,300	190	580		1
04688	Benzyl alcohol	100-51-6	1,800	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900	19	190		1
04688	Butylbenzylphthalate	85-68-7	2,000	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800	19	190		1
04688	Carbazole	86-74-8	2,000	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	39	190		1
04688	4-Chloroaniline	106-47-8	1,500	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800	19	190		1
04688	2-Chloronaphthalene	91-58-7	3,100	19	190		1
04688	2-Chlorophenol	95-57-8	1,900	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	39	190		1
04688	Chrysene	218-01-9	2,000	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800	19	190		1
04688	Dibenzofuran	132-64-9	1,800	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,800	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,700	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,700	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,700	120	390		1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190		1
04688	Diethylphthalate	84-66-2	1,700	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,700	39	190		1
04688	3,5-Dimethylphenol	108-68-9	1,800	39	190		1
04688	Dimethylphthalate	131-11-3	1,800	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200	190	580		1
04688	2,4-Dinitrophenol	51-28-5	2,100	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	19	390		1
04688	Fluoranthene	206-44-0	1,900	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	2,000	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,900	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,700	190	580		1
04688	Hexachloroethane	67-72-1	1,500	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-181-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213418
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,900	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190		1
04688	2-Methylphenol	95-48-7	1,700	39	190		1
04688	4-Methylphenol	106-44-5	1,600	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	19	190		1
04688	2-Nitroaniline	88-74-4	1,800	19	190		1
04688	3-Nitroaniline	99-09-2	1,800	39	190		1
04688	4-Nitroaniline	100-01-6	1,600	78	190		1
04688	Nitrobenzene	98-95-3	1,600	19	190		1
04688	2-Nitrophenol	88-75-5	1,800	19	190		1
04688	4-Nitrophenol	100-02-7	1,300	190	580		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	39	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,700	19	190		1
04688	Pentachlorophenol	87-86-5	1,600	190	580		1
04688	Phenanthrene	85-01-8	2,000	19	190		1
04688	Phenol	108-95-2	1,700	19	190		1
04688	Pyrene	129-00-0	2,200	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	2,000	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	39	0.78	1.9		1
10138	Acenaphthylene	208-96-8	39	0.39	1.9		1
10138	Anthracene	120-12-7	43	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	84	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	100	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	110	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	47	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	82	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	670	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	87	7.0	21		1
10138	Chrysene	218-01-9	110	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	30	0.78	1.9		1
10138	Diethylphthalate	84-66-2	41	7.0	21		1
10138	Dimethylphthalate	131-11-3	66	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	94	7.0	21		1
10138	Fluoranthene	206-44-0	130	0.78	1.9		1
10138	Fluorene	86-73-7	34	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	43	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	32	0.78	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-181-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213418
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	29		0.78	1.9		1
10138	Naphthalene	91-20-3	33		0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	35		0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	55		7.0	21		1
10138	Phenanthrene	85-01-8	60		0.78	1.9		1
10138	Pyrene	129-00-0	100		0.78	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.2		1.4	4.2		1
10401	Dalapon	75-99-0	21		5.1	10		1
10401	2,4-DB	94-82-6	4.7		0.72	2.0		1
10401	Dicamba	1918-00-9	1.0	J	0.47	1.4		1
10401	Dinoseb	88-85-7	2.1	J	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	12		0.93	2.0		1
10401	MCPA	94-74-6	1,800		89	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.47		0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.78		0.087	0.20		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.34		0.077	0.20		1
01363	Alpha BHC	319-84-6	0.17	J	0.040	0.20		1
01363	Beta BHC	319-85-7	0.42		0.070	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.26		0.040	0.20		1
01363	Chlordane	57-74-9	0.93	U	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.59		0.077	0.40		1
01363	p,p-DDE	72-55-9	1.2		0.077	0.40		1
01363	p,p-DDT	50-29-3	3.2		0.077	0.40		1
01363	Delta BHC	319-86-8	0.33		0.042	0.20		1
01363	Dieldrin	60-57-1	0.97		0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.20		1
01363	Endosulfan II	33213-65-9	0.59		0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.55		0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.69		0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.63		0.077	0.40		1
01363	Heptachlor	76-44-8	0.31		0.070	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.45		0.040	0.20		1
01363	Methoxychlor	72-43-5	3.0		0.40	1.9		1
01363	Mirex	2385-85-5	0.14	J	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-181-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213418
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.7		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.7		2
10225	Aroclor 5460	11126-42-4	50		2.3	7.7		2
10225	PCB-1016	12674-11-2	19		0.77	4.0		2
10225	PCB-1221	11104-28-2	0.77	U	0.77	4.0		2
10225	PCB-1232	11141-16-5	0.77	U	0.77	4.0		2
10225	PCB-1242	53469-21-9	0.77	U	0.77	4.0		2
10225	PCB-1248	12672-29-6	0.77	U	0.77	4.0		2
10225	PCB-1254	11097-69-1	33		0.77	4.0		2
10225	PCB-1260	11096-82-5	35		0.91	4.0		2
10225	PCB-1262	37324-23-5	0.77	U	0.77	4.0		2
10225	PCB-1268	11100-14-4	0.77	U	0.77	4.0		2
	The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		5.75	22.9		1
07914	Boron	7440-42-8	225		1.02	5.71		1
01650	Calcium	7440-70-2	5,130		7.00	22.9		1
01654	Iron	7439-89-6	21,500		5.38	22.9		1
01656	Lithium	7439-93-2	144		0.25	2.3		1
01657	Magnesium	7439-95-4	4,950		2.90	11.4		1
06958	Manganese	7439-96-5	316		0.0891	0.571		1
10145	Phosphorus	7723-14-0	770		0.646	11.5		1
01662	Potassium	7440-09-7	4,190		20.6	57.1		1
01667	Sodium	7440-23-5	1,240		42.6	114		1
07968	Strontium	7440-24-6	136		0.0708	0.571		1
06969	Tin	7440-31-5	401		1.14	11.4		1
06970	Titanium	7440-32-6	1,250		0.434	1.14		1
10146	Zirconium	7440-67-7	115		0.969	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.464		0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.15		0.0923	0.462		2
06126	Barium	7440-39-3	118		0.125	0.462		2
06127	Beryllium	7440-41-7	1.56		0.0185	0.115		2
06128	Cadmium	7440-43-9	1.65		0.0462	0.115		2
06131	Chromium	7440-47-3	39.5		0.138	0.462		2
06132	Cobalt	7440-48-4	56.9		0.0231	0.115		2
06133	Copper	7440-50-8	22.8		0.0762	0.462		2
06135	Lead	7439-92-1	54.3		0.0120	0.231		2
06138	Molybdenum	7439-98-7	11.5		0.0577	0.115		2
06139	Nickel	7440-02-0	22.4		0.115	0.462		2
06141	Selenium	7782-49-2	2.28		0.0462	0.462		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-181-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213418
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06142	Silver	7440-22-4	11.7	0.0138	0.115		2
06145	Thallium	7440-28-0	0.704	0.0346	0.115		2
06148	Vanadium	7440-62-2	51.1	0.0254	0.115		2
06149	Zinc	7440-66-6	91.4	0.646	3.46		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.261	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.1	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	657	10.5	35.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	42.8	1.2	5.8		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 12:55	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/01/2011 15:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 13:14	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 06:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 03:44	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1

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Sample Description: **SL-181-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213418
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110565708004	03/03/2011 23:15	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/03/2011 23:15	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/03/2011 23:15	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/03/2011 23:15	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 07:44	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/03/2011 23:15	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/03/2011 23:15	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 07:44	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/03/2011 23:15	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/03/2011 23:15	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/03/2011 23:15	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/03/2011 23:15	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/03/2011 23:15	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 07:44	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:03	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:03	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 01:36	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:03	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:03	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:03	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:03	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:03	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:03	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:03	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202A	03/04/2011 12:15	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201A	03/04/2011 13:39	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11063243201A	03/07/2011 15:01	Carrie E Miller	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202A	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201A	03/04/2011 10:17	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-181-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213419
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		19	190		1
04688	Acenaphthylene	208-96-8	1,700		19	190		1
04688	Aniline	62-53-3	1,800		190	580		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	4,600		1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,900		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,900		19	190		1
04688	Benzoic acid	65-85-0	1,200		190	580		1
04688	Benzyl alcohol	100-51-6	1,700		190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,900		19	190		1
04688	Carbazole	86-74-8	1,700		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		39	190		1
04688	4-Chloroaniline	106-47-8	1,600		77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900		39	190		1
04688	Chrysene	218-01-9	2,100		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		19	190		1
04688	Dibenzofuran	132-64-9	1,800		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,800		120	390		1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190		1
04688	Diethylphthalate	84-66-2	1,700		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800		39	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900		39	190		1
04688	Dimethylphthalate	131-11-3	2,000		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	650		190	580		1
04688	2,4-Dinitrophenol	51-28-5	910	J	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		39	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		19	390		1
04688	Fluoranthene	206-44-0	1,800		19	190		1
04688	Fluorene	86-73-7	1,700		19	190		1
04688	Hexachlorobenzene	118-74-1	1,900		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,900		77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,300		190	580		1
04688	Hexachloroethane	67-72-1	1,500		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		19	190		1
04688	Isophorone	78-59-1	1,700		19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-181-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213419
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,800	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,800	19	190		1
04688	2-Methylphenol	95-48-7	1,600	39	190		1
04688	4-Methylphenol	106-44-5	1,600	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	1,800	19	190		1
04688	3-Nitroaniline	99-09-2	1,800	39	190		1
04688	4-Nitroaniline	100-01-6	1,600	77	190		1
04688	Nitrobenzene	98-95-3	1,600	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,400	190	580		1
04688	N-Nitrosodimethylamine	62-75-9	1,200	39	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,800	19	190		1
04688	Pentachlorophenol	87-86-5	1,600	190	580		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,600	19	190		1
04688	Pyrene	129-00-0	2,100	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	39	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	37	0.78	1.9		1
10138	Acenaphthylene	208-96-8	39	0.39	1.9		1
10138	Anthracene	120-12-7	47	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	86	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	99	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	120	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	47	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	79	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	83	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	270	7.0	21		1
10138	Chrysene	218-01-9	100	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	28	0.78	1.9		1
10138	Diethylphthalate	84-66-2	42	7.0	21		1
10138	Dimethylphthalate	131-11-3	57	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	75	7.0	21		1
10138	Fluoranthene	206-44-0	120	0.78	1.9		1
10138	Fluorene	86-73-7	35	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	44	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	32	0.78	1.9		1

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Sample Description: SL-181-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213419
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	29		0.78	1.9		1
10138	Naphthalene	91-20-3	32		0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	32		0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	59		7.0	21		1
10138	Phenanthrene	85-01-8	68		0.78	1.9		1
10138	Pyrene	129-00-0	91		0.78	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.2		1.4	4.2		1
10401	Dalapon	75-99-0	9.2	J	5.1	10		1
10401	2,4-DB	94-82-6	6.3		0.72	2.0		1
10401	Dicamba	1918-00-9	0.93	J	0.47	1.4		1
10401	Dinoseb	88-85-7	1.0	J	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	9.3		0.93	2.0		1
10401	MCPA	94-74-6	1,500		89	290		1
10401	MCPP (Mecoprop)	93-65-2	210	J	87	290		1
10401	2,4,5-T	93-76-5	0.68		0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.20		0.087	0.20		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.37		0.077	0.20		1
01363	Alpha BHC	319-84-6	0.20		0.040	0.20		1
01363	Beta BHC	319-85-7	0.78		0.070	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.24		0.040	0.20		1
01363	Chlordane	57-74-9	0.93	U	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.84		0.077	0.40		1
01363	p,p-DDE	72-55-9	1.1		0.077	0.40		1
01363	p,p-DDT	50-29-3	3.0		0.077	0.40		1
01363	Delta BHC	319-86-8	0.34		0.042	0.20		1
01363	Dieldrin	60-57-1	0.85		0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.20		1
01363	Endosulfan II	33213-65-9	1.3		0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	1.0		0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.83		0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.97		0.077	0.40		1
01363	Heptachlor	76-44-8	0.31		0.070	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.45		0.040	0.20		1
01363	Methoxychlor	72-43-5	3.8		0.40	1.9		1
01363	Mirex	2385-85-5	0.40		0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-181-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213419
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.7		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.7		2
10225	Aroclor 5460	11126-42-4	220		2.3	7.7		2
10225	PCB-1016	12674-11-2	21		0.77	4.0		2
10225	PCB-1221	11104-28-2	0.77	U	0.77	4.0		2
10225	PCB-1232	11141-16-5	0.77	U	0.77	4.0		2
10225	PCB-1242	53469-21-9	0.77	U	0.77	4.0		2
10225	PCB-1248	12672-29-6	0.77	U	0.77	4.0		2
10225	PCB-1254	11097-69-1	40		0.77	4.0		2
10225	PCB-1260	11096-82-5	38		0.91	4.0		2
10225	PCB-1262	37324-23-5	0.77	U	0.77	4.0		2
10225	PCB-1268	11100-14-4	0.77	U	0.77	4.0		2
	The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		5.75	22.9		1
07914	Boron	7440-42-8	230		1.02	5.71		1
01650	Calcium	7440-70-2	4,710		7.00	22.9		1
01654	Iron	7439-89-6	19,300		5.38	22.9		1
01656	Lithium	7439-93-2	144		0.25	2.3		1
01657	Magnesium	7439-95-4	4,700		2.90	11.4		1
06958	Manganese	7439-96-5	333		0.0891	0.571		1
10145	Phosphorus	7723-14-0	559		0.640	11.4		1
01662	Potassium	7440-09-7	4,130		20.6	57.1		1
01667	Sodium	7440-23-5	1,250		42.6	114		1
07968	Strontium	7440-24-6	146		0.0708	0.571		1
06969	Tin	7440-31-5	404		1.14	11.4		1
06970	Titanium	7440-32-6	1,250		0.434	1.14		1
10146	Zirconium	7440-67-7	113		0.960	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.581		0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.51		0.0923	0.462		2
06126	Barium	7440-39-3	118		0.125	0.462		2
06127	Beryllium	7440-41-7	1.42		0.0185	0.115		2
06128	Cadmium	7440-43-9	1.73		0.0462	0.115		2
06131	Chromium	7440-47-3	32.8		0.138	0.462		2
06132	Cobalt	7440-48-4	58.1		0.0231	0.115		2
06133	Copper	7440-50-8	23.5		0.0762	0.462		2
06135	Lead	7439-92-1	17.1		0.0120	0.231		2
06138	Molybdenum	7439-98-7	11.6		0.0577	0.115		2
06139	Nickel	7440-02-0	22.8		0.115	0.462		2
06141	Selenium	7782-49-2	2.32		0.0462	0.462		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-181-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213419
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06142	Silver	7440-22-4	11.7	0.0138	0.115		2
06145	Thallium	7440-28-0	0.710	0.0346	0.115		2
06148	Vanadium	7440-62-2	49.1	0.0254	0.115		2
06149	Zinc	7440-66-6	93.3	0.646	3.46		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.260	0.0032	0.111		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 13:21	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/01/2011 16:19	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 13:41	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 06:49	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 04:03	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/03/2011 23:19	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/03/2011 23:19	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/03/2011 23:19	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/03/2011 23:19	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 07:48	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/03/2011 23:19	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/03/2011 23:19	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 07:48	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/03/2011 23:19	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/03/2011 23:19	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-181-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213419
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110565708004	03/03/2011 23:19	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/03/2011 23:19	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/03/2011 23:19	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 07:48	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:06	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:06	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:06	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:06	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:06	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:06	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 01:38	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:06	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:06	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:06	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:06	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:06	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:06	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:06	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:06	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:06	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-181-SA5A-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213420
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		5.80	23.1		1
07914	Boron	7440-42-8	3.08	J	1.03	5.77		1
01650	Calcium	7440-70-2	4,920		7.07	23.1		1
01654	Iron	7439-89-6	20,500		5.44	23.1		1
01656	Lithium	7439-93-2	22.8		0.25	2.3		1
01657	Magnesium	7439-95-4	4,470		2.93	11.5		1
06958	Manganese	7439-96-5	279		0.0900	0.577		1
10145	Phosphorus	7723-14-0	481		0.646	11.5		1
01662	Potassium	7440-09-7	3,010		20.8	57.7		1
01667	Sodium	7440-23-5	108	J	43.0	115		1
07968	Strontium	7440-24-6	27.5		0.0715	0.577		1
06969	Tin	7440-31-5	3.54	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,050		0.439	1.15		1
10146	Zirconium	7440-67-7	5.48	J	0.969	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.150	J	0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.27		0.0914	0.457		2
06126	Barium	7440-39-3	88.5		0.123	0.457		2
06127	Beryllium	7440-41-7	0.473		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.492		0.0457	0.114		2
06131	Chromium	7440-47-3	19.1		0.137	0.457		2
06132	Cobalt	7440-48-4	5.00		0.0229	0.114		2
06133	Copper	7440-50-8	12.1		0.0754	0.457		2
06135	Lead	7439-92-1	12.3		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.464		0.0571	0.114		2
06139	Nickel	7440-02-0	10.7		0.114	0.457		2
06141	Selenium	7782-49-2	0.104	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.180		0.0137	0.114		2
06145	Thallium	7440-28-0	0.217		0.0343	0.114		2
06148	Vanadium	7440-62-2	31.5		0.0251	0.114		2
06149	Zinc	7440-66-6	73.3		0.640	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0605	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.23	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-181-SA5A-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213420
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		mV	mV	mV	mV	
01821	32a OR Potential	n.a.	341	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.83	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	13.8	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110565708004	03/03/2011 23:11	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/03/2011 23:11	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/03/2011 23:11	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/03/2011 23:11	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 07:41	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/03/2011 23:11	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/03/2011 23:11	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 07:41	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/03/2011 23:11	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/03/2011 23:11	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/03/2011 23:11	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/03/2011 23:11	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/03/2011 23:11	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 07:41	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:00	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:00	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 01:35	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-181-SA5A-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213420
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8804 SDG#: DE088-04DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:00	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:00	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:00	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:00	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:00	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:00	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202A	03/04/2011 12:00	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201A	03/04/2011 13:14	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11063243201A	03/07/2011 15:57	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202A	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201A	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101A	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401A	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-196-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5A-SS-0.0-0.5

LLI Sample # SW 6213421
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 08:40

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8805 SDG#: DE088-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-196-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5A-SS-0.0-0.5

LLI Sample # SW 6213421
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 08:40

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8805 SDG#: DE088-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	1.2	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	3.0		0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	3.5		0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	6.5		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	3.4		0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.91	J	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	6.4		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	5.2		0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.96	J	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	4.9		0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	5.9		0.74	1.9		1
10138	Naphthalene	91-20-3	2.3		0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	15	J	6.7	20		1
10138	Phenanthrene	85-01-8	10		0.74	1.9		1
10138	Pyrene	129-00-0	5.1		0.74	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	1.9	U	1.9	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	85	U	85	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-196-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5A-SS-0.0-0.5

LLI Sample # SW 6213421
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 08:40

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8805 SDG#: DE088-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.23		0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	1.3	U	1.3	3.8		1
01363	p,p-DDD	72-54-8	0.39	U	0.39	0.39		1
01363	p,p-DDE	72-55-9	0.48		0.074	0.38		1
01363	p,p-DDT	50-29-3	0.97	U	0.97	0.97		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.11	U	0.11	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.49	U	0.49	0.49		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.35	U	0.35	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.23	U	0.23	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	10		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	3.8		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits. Also the DCB and TCX sample surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-196-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5A-SS-0.0-0.5

LLI Sample # SW 6213421
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 08:40

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8805 SDG#: DE088-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.47	21.7		1
07914	Boron	7440-42-8	2.26	J	0.968	5.44		1
01650	Calcium	7440-70-2	2,060		6.66	21.7		1
01654	Iron	7439-89-6	18,100		5.12	21.7		1
01656	Lithium	7439-93-2	20.3		0.24	2.2		1
01657	Magnesium	7439-95-4	3,640		2.76	10.9		1
06958	Manganese	7439-96-5	298		0.0848	0.544		1
10145	Phosphorus	7723-14-0	308		0.603	10.8		1
01662	Potassium	7440-09-7	2,970		19.6	54.4		1
01667	Sodium	7440-23-5	67.5	J	40.6	109		1
07968	Strontium	7440-24-6	14.4		0.0674	0.544		1
06969	Tin	7440-31-5	2.91	J	1.09	10.9		1
06970	Titanium	7440-32-6	952		0.413	1.09		1
10146	Zirconium	7440-67-7	4.85	J	0.904	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0911	J	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.92		0.0896	0.448		2
06126	Barium	7440-39-3	93.6		0.121	0.448		2
06127	Beryllium	7440-41-7	0.632		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.186		0.0448	0.112		2
06131	Chromium	7440-47-3	18.1		0.134	0.448		2
06132	Cobalt	7440-48-4	5.83		0.0224	0.112		2
06133	Copper	7440-50-8	9.54		0.0739	0.448		2
06135	Lead	7439-92-1	14.0		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.505		0.0560	0.112		2
06139	Nickel	7440-02-0	12.1		0.112	0.448		2
06141	Selenium	7782-49-2	0.134	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0496	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.234		0.0336	0.112		2
06148	Vanadium	7440-62-2	36.8		0.0246	0.112		2
06149	Zinc	7440-66-6	66.7		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-196-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5A-SS-0.0-0.5

LLI Sample # SW 6213421
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 08:40

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8805 SDG#: DE088-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	362	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.02	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 15:06	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/01/2011 21:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 15:31	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 07:03	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 04:22	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/03/2011 23:46	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/03/2011 23:46	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/03/2011 23:46	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/03/2011 23:46	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 08:12	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/03/2011 23:46	John W Yanzuk II	1

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Sample Description: **SL-196-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5A-SS-0.0-0.5

LLI Sample # SW 6213421
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 08:40

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8805 SDG#: DE088-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110565708004	03/03/2011 23:46	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 08:12	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/03/2011 23:46	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/03/2011 23:46	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/03/2011 23:46	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/03/2011 23:46	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/03/2011 23:46	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 08:12	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:28	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:28	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:28	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:28	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:28	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:28	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 01:51	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:28	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:28	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:28	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:28	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:28	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:28	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:28	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:28	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:28	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202A	03/04/2011 13:16	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201A	03/04/2011 15:39	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11063243201A	03/07/2011 16:09	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202A	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201A	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101A	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401A	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-197-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SS-0.0-0.5

LLI Sample # SW 6213422
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:08

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8806 SDG#: DE088-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	320	J	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	77	J	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	99	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1

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Sample Description: SL-197-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SS-0.0-0.5

LLI Sample # SW 6213422
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:08

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8806 SDG#: DE088-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	11		0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	64		0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	61		0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	83		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	20		0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	18		0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	10	J	7.1	21		1
10138	Chrysene	218-01-9	110		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	8.5		0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	51		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	12		0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	160		0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	180		0.79	2.0		1
10138	Naphthalene	91-20-3	120		0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	270		7.1	21		1
10138	Phenanthrene	85-01-8	230		0.79	2.0		1
10138	Pyrene	129-00-0	68		0.79	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	35		0.74	2.0		1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4		1
10401	Dinoseb	88-85-7	0.95	U	0.95	2.9		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.95	U	0.95	2.0		1
10401	MCPA	94-74-6	950	U	950	950		1
10401	MCPP (Mecoprop)	93-65-2	89	U	89	300		1
10401	2,4,5-T	93-76-5	0.42	U	0.42	0.42		1
10401	2,4,5-TP	93-72-1	0.11	U	0.11	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-197-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SS-0.0-0.5

LLI Sample # SW 6213422
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:08

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8806 SDG#: DE088-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.39	U	0.39	0.99		5
01363	Alpha BHC	319-84-6	0.20	U	0.20	0.99		5
01363	Beta BHC	319-85-7	0.68	J	0.36	0.99		5
01363	Gamma BHC - Lindane	58-89-9	0.29	U	0.29	0.99		5
01363	Chlordane	57-74-9	4.8	U	4.8	20		5
01363	p,p-DDD	72-54-8	9.3		0.39	2.0		5
01363	p,p-DDE	72-55-9	0.39	U	0.39	2.0		5
01363	p,p-DDT	50-29-3	0.93	U	0.93	2.0		5
01363	Delta BHC	319-86-8	0.21	U	0.21	0.99		5
01363	Dieldrin	60-57-1	0.68	U	0.68	2.0		5
01363	Endosulfan I	959-98-8	0.26	U	0.26	0.99		5
01363	Endosulfan II	33213-65-9	1.4	U	1.4	2.0		5
01363	Endosulfan Sulfate	1031-07-8	2.1		0.39	2.0		5
01363	Endrin	72-20-8	0.39	U	0.39	2.0		5
01363	Endrin Aldehyde	7421-93-4	1.2	U	1.2	2.0		5
01363	Endrin Ketone	53494-70-5	0.39	U	0.39	2.0		5
01363	Heptachlor	76-44-8	0.36	U	0.36	0.99		5
01363	Heptachlor Epoxide	1024-57-3	0.58	J	0.20	0.99		5
01363	Methoxychlor	72-43-5	2.0	U	2.0	9.9		5
01363	Mirex	2385-85-5	0.39	U	0.39	2.0		5
01363	Toxaphene	8001-35-2	13	U	13	39		5

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	3.0	U	3.0	9.8		1
10225	Aroclor 5442	12642-23-8	3.0	U	3.0	9.8		1
10225	Aroclor 5460	11126-42-4	3.0	U	3.0	9.8		1
10225	PCB-1016	12674-11-2	0.98	U	0.98	5.1		1
10225	PCB-1221	11104-28-2	0.98	U	0.98	5.1		1
10225	PCB-1232	11141-16-5	0.98	U	0.98	5.1		1
10225	PCB-1242	53469-21-9	0.98	U	0.98	5.1		1
10225	PCB-1248	12672-29-6	0.98	U	0.98	5.1		1
10225	PCB-1254	11097-69-1	0.98	U	0.98	5.1		1
10225	PCB-1260	11096-82-5	1.2	U	1.2	5.1		1
10225	PCB-1262	37324-23-5	0.98	U	0.98	5.1		1
10225	PCB-1268	11100-14-4	0.98	U	0.98	5.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-197-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SS-0.0-0.5

LLI Sample # SW 6213422
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:08

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8806 SDG#: DE088-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.76	22.9		1
07914	Boron	7440-42-8	7.76		1.02	5.72		1
01650	Calcium	7440-70-2	2,690		7.02	22.9		1
01654	Iron	7439-89-6	21,500		5.39	22.9		1
01656	Lithium	7439-93-2	18.5		0.26	2.4		1
01657	Magnesium	7439-95-4	4,480		2.91	11.4		1
06958	Manganese	7439-96-5	263		0.0893	0.572		1
10145	Phosphorus	7723-14-0	456		0.660	11.8		1
01662	Potassium	7440-09-7	3,020		20.6	57.2		1
01667	Sodium	7440-23-5	149		42.7	114		1
07968	Strontium	7440-24-6	20.7		0.0710	0.572		1
06969	Tin	7440-31-5	3.17	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,010		0.435	1.14		1
10146	Zirconium	7440-67-7	4.88	J	0.990	5.89		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0822	J	0.0700	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.46		0.0934	0.467		2
06126	Barium	7440-39-3	105		0.126	0.467		2
06127	Beryllium	7440-41-7	0.688		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.426		0.0467	0.117		2
06131	Chromium	7440-47-3	20.2		0.140	0.467		2
06132	Cobalt	7440-48-4	7.08		0.0233	0.117		2
06133	Copper	7440-50-8	11.8		0.0770	0.467		2
06135	Lead	7439-92-1	12.2		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.723		0.0584	0.117		2
06139	Nickel	7440-02-0	16.8		0.117	0.467		2
06141	Selenium	7782-49-2	0.183	J	0.0467	0.467		2
06142	Silver	7440-22-4	0.133		0.0140	0.117		2
06145	Thallium	7440-28-0	0.236		0.0350	0.117		2
06148	Vanadium	7440-62-2	42.2		0.0257	0.117		2
06149	Zinc	7440-66-6	161		0.654	3.50		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0041	J	0.0034	0.118		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.95	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1

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Sample Description: **SL-197-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SS-0.0-0.5

LLI Sample # SW 6213422
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:08

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8806 SDG#: DE088-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	402	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	5.73	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	16.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 15:32	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/01/2011 22:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 16:54	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 07:32	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/11/2011 23:24	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/03/2011 23:50	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/03/2011 23:50	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/03/2011 23:50	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/03/2011 23:50	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 08:16	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/03/2011 23:50	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/03/2011 23:50	John W Yanzuk II	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-197-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SS-0.0-0.5

LLI Sample # SW 6213422
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:08

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8806 SDG#: DE088-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 08:16	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/03/2011 23:50	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/03/2011 23:50	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/03/2011 23:50	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/03/2011 23:50	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/03/2011 23:50	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 08:16	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:31	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:31	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:31	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:31	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:31	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:31	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 01:53	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:31	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:31	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/08/2011 01:53	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:31	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:31	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:31	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:31	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:31	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:31	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202A	03/04/2011 13:31	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201A	03/04/2011 16:03	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11063243201A	03/07/2011 16:15	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202A	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201A	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101A	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401A	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-210-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-210-SA5A-SS-0.0-0.5

LLI Sample # SW 6213423
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:13

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8807 SDG#: DE088-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-210-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-210-SA5A-SS-0.0-0.5

LLI Sample # SW 6213423
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:13

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8807 SDG#: DE088-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.39	J	0.36	1.8		1
10138	Anthracene	120-12-7	0.68	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.0		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.5		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	7.9	J	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	13	J	6.5	19		1
10138	Chrysene	218-01-9	1.2	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	48		6.5	19		1
10138	Fluoranthene	206-44-0	1.4	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	1.1	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.98	J	0.72	1.8		1
10138	Pyrene	129-00-0	1.5	J	0.72	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.7		1
10401	2,4-DB	94-82-6	1.8	U	1.8	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	82	U	82	270		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-210-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-210-SA5A-SS-0.0-0.5

LLI Sample # SW 6213423
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:13

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8807 SDG#: DE088-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	1.3	U	1.3	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.37		1
01363	p,p-DDT	50-29-3	0.63		0.071	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.46		0.071	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	3.8		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.75	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	1.7	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits. Also the TCX sample surrogate is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,000		5.34	21.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-210-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5A-SS-0.0-0.5

LLI Sample # SW 6213423
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:13

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8807 SDG#: DE088-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	2.82	J	0.944	5.31		1
01650	Calcium	7440-70-2	3,040		6.50	21.2		1
01654	Iron	7439-89-6	20,700		5.00	21.2		1
01656	Lithium	7439-93-2	23.7		0.23	2.1		1
01657	Magnesium	7439-95-4	4,880		2.70	10.6		1
06958	Manganese	7439-96-5	292		0.0828	0.531		1
10145	Phosphorus	7723-14-0	404		0.594	10.6		1
01662	Potassium	7440-09-7	3,140		19.1	53.1		1
01667	Sodium	7440-23-5	103	J	39.6	106		1
07968	Strontium	7440-24-6	19.6		0.0658	0.531		1
06969	Tin	7440-31-5	3.00	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,150		0.403	1.06		1
10146	Zirconium	7440-67-7	3.99	J	0.891	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0649	U	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.57		0.0866	0.433		2
06126	Barium	7440-39-3	95.2		0.117	0.433		2
06127	Beryllium	7440-41-7	0.547		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.128		0.0433	0.108		2
06131	Chromium	7440-47-3	18.5		0.130	0.433		2
06132	Cobalt	7440-48-4	5.88		0.0216	0.108		2
06133	Copper	7440-50-8	9.48		0.0714	0.433		2
06135	Lead	7439-92-1	7.51		0.0113	0.216		2
06138	Molybdenum	7439-98-7	0.430		0.0541	0.108		2
06139	Nickel	7440-02-0	11.9		0.108	0.433		2
06141	Selenium	7782-49-2	0.152	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0235	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.246		0.0325	0.108		2
06148	Vanadium	7440-62-2	36.3		0.0238	0.108		2
06149	Zinc	7440-66-6	64.5		0.606	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-210-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5A-SS-0.0-0.5

LLI Sample # SW 6213423
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:13

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8807 SDG#: DE088-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	369	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.85	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 15:58	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/01/2011 22:49	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 17:22	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 07:47	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 04:40	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110740006A	03/15/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/03/2011 23:54	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/03/2011 23:54	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/03/2011 23:54	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/03/2011 23:54	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-210-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-210-SA5A-SS-0.0-0.5

LLI Sample # SW 6213423
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:13

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8807 SDG#: DE088-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 08:19	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/03/2011 23:54	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/03/2011 23:54	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 08:19	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/03/2011 23:54	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/03/2011 23:54	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/03/2011 23:54	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/03/2011 23:54	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/03/2011 23:54	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 08:19	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:34	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:34	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:34	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:34	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:34	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:34	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 01:54	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:34	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:34	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:34	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:34	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:34	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:34	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:34	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:34	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:34	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202A	03/04/2011 14:17	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201A	03/04/2011 16:27	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11063243201A	03/07/2011 16:28	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202A	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201A	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101A	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401A	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-211-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SS-0.0-0.5

LLI Sample # SW 6213424
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:36

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8808 SDG#: DE088-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: **SL-211-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SS-0.0-0.5

LLI Sample # SW 6213424
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:36

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8808 SDG#: DE088-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.70	J	0.37	1.8		1
10138	Anthracene	120-12-7	1.0	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	3.5		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	6.5		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	7.6		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.6		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	1.6	J	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.6	J	6.6	20		1
10138	Fluoranthene	206-44-0	7.1		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	1.2	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	2.7		0.73	1.8		1
10138	Pyrene	129-00-0	4.6		0.73	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	1.1	J	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	110	J	83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1

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Sample Description: **SL-211-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SS-0.0-0.5

LLI Sample # SW 6213424
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:36

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8808 SDG#: DE088-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	p,p-DDD	72-54-8	0.18	J	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.61		0.072	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.085	J	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.15	J	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits. Also the TCX and DCB sample surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		5.47	21.7		1
07914	Boron	7440-42-8	2.56	J	0.967	5.43		1
01650	Calcium	7440-70-2	3,060		6.66	21.7		1
01654	Iron	7439-89-6	22,700		5.12	21.7		1

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Sample Description: **SL-211-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SS-0.0-0.5

LLI Sample # SW 6213424
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:36

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8808 SDG#: DE088-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	23.2		0.23	2.1		1
01657	Magnesium	7439-95-4	5,230		2.76	10.9		1
06958	Manganese	7439-96-5	306		0.0848	0.543		1
10145	Phosphorus	7723-14-0	431		0.597	10.7		1
01662	Potassium	7440-09-7	3,430		19.6	54.3		1
01667	Sodium	7440-23-5	126		40.5	109		1
07968	Strontium	7440-24-6	21.4		0.0674	0.543		1
06969	Tin	7440-31-5	3.04	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,240		0.413	1.09		1
10146	Zirconium	7440-67-7	3.61	J	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0639	U	0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.14		0.0853	0.426		2
06126	Barium	7440-39-3	113		0.115	0.426		2
06127	Beryllium	7440-41-7	0.604		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.105	J	0.0426	0.107		2
06131	Chromium	7440-47-3	18.6		0.128	0.426		2
06132	Cobalt	7440-48-4	6.25		0.0213	0.107		2
06133	Copper	7440-50-8	9.94		0.0703	0.426		2
06135	Lead	7439-92-1	6.56		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.487		0.0533	0.107		2
06139	Nickel	7440-02-0	12.0		0.107	0.426		2
06141	Selenium	7782-49-2	0.110	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0374	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.264		0.0320	0.107		2
06148	Vanadium	7440-62-2	42.1		0.0234	0.107		2
06149	Zinc	7440-66-6	53.5		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	370		10.0	10.0		1

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Sample Description: **SL-211-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SS-0.0-0.5

LLI Sample # SW 6213424
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:36

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8808 SDG#: DE088-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.38	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 16:24	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/02/2011 10:00	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 17:49	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 08:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 04:59	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/03/2011 23:58	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/03/2011 23:58	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/03/2011 23:58	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/03/2011 23:58	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 08:23	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/03/2011 23:58	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/03/2011 23:58	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 08:23	Joanne M Gates	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-211-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SS-0.0-0.5

LLI Sample # SW 6213424
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Suite 210
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E8808 SDG#: DE088-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110565708004	03/03/2011 23:58	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/03/2011 23:58	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/03/2011 23:58	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/03/2011 23:58	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/03/2011 23:58	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 08:23	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:37	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:37	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:37	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:37	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:37	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:37	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 01:56	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:37	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:37	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:37	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:37	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:37	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:37	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:37	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:37	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:37	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202A	03/04/2011 14:32	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201A	03/04/2011 16:51	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11063243201A	03/07/2011 16:40	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202A	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201A	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101A	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401A	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-212-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-212-SA5A-SS-0.0-0.5

LLI Sample # SW 6213425
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:14

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8809 SDG#: DE088-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-212-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-212-SA5A-SS-0.0-0.5

LLI Sample # SW 6213425
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:14

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8809 SDG#: DE088-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.9	J	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.84	J	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.0	J	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	1.3	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	7.0	21		1
10138	Fluoranthene	206-44-0	2.1		0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	1.4	J	0.78	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	11		1
10401	2,4-DB	94-82-6	2.6		0.73	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.67		0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.37		0.088	0.20		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0		1

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Sample Description: SL-212-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-212-SA5A-SS-0.0-0.5

LLI Sample # SW 6213425
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:14

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8809 SDG#: DE088-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.077	U	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.39	J	0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.25	J	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	1.0	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.51	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,200		5.71	22.7		1
07914	Boron	7440-42-8	3.41	J	1.01	5.68		1
01650	Calcium	7440-70-2	10,100		6.96	22.7		1
01654	Iron	7439-89-6	28,200		5.35	22.7		1
01656	Lithium	7439-93-2	32.9		0.25	2.3		1
01657	Magnesium	7439-95-4	7,350		2.88	11.4		1
06958	Manganese	7439-96-5	217		0.0886	0.568		1

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Sample Description: **SL-212-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-212-SA5A-SS-0.0-0.5

LLI Sample # SW 6213425
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:14

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8809 SDG#: DE088-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	562		0.648	11.6		1
01662	Potassium	7440-09-7	2,490		20.4	56.8		1
01667	Sodium	7440-23-5	175		42.4	114		1
07968	Strontium	7440-24-6	38.7		0.0704	0.568		1
06969	Tin	7440-31-5	3.62	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,300		0.431	1.14		1
10146	Zirconium	7440-67-7	5.08	J	0.973	5.79		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.121	J	0.0688	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.73		0.0917	0.459		2
06126	Barium	7440-39-3	132		0.124	0.459		2
06127	Beryllium	7440-41-7	0.889		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.0767	J	0.0459	0.115		2
06131	Chromium	7440-47-3	33.3		0.138	0.459		2
06132	Cobalt	7440-48-4	6.90		0.0229	0.115		2
06133	Copper	7440-50-8	17.5		0.0757	0.459		2
06135	Lead	7439-92-1	23.1		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.431		0.0573	0.115		2
06139	Nickel	7440-02-0	17.2		0.115	0.459		2
06141	Selenium	7782-49-2	0.176	J	0.0459	0.459		2
06142	Silver	7440-22-4	0.0563	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.336		0.0344	0.115		2
06148	Vanadium	7440-62-2	49.9		0.0252	0.115		2
06149	Zinc	7440-66-6	63.5		0.642	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0064	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.2		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	376		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-212-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-212-SA5A-SS-0.0-0.5

LLI Sample # SW 6213425
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:14

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8809 SDG#: DE088-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.23	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	14.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 16:50	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/02/2011 10:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 18:17	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 08:15	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 05:18	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/04/2011 00:02	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/04/2011 00:02	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/04/2011 00:02	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/04/2011 00:02	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 08:26	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/04/2011 00:02	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/04/2011 00:02	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 08:26	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/04/2011 00:02	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/04/2011 00:02	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/04/2011 00:02	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/04/2011 00:02	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/04/2011 00:02	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-212-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-212-SA5A-SS-0.0-0.5

LLI Sample # SW 6213425
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:14

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8809 SDG#: DE088-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 08:26	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:40	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:40	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:40	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:40	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:40	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 01:58	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:40	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:40	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:40	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:40	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:40	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:40	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:40	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:40	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:40	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202A	03/04/2011 14:47	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201A	03/04/2011 17:15	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11063243201A	03/07/2011 16:53	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202A	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201A	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101A	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401A	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-214-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SS-0.0-0.5

LLI Sample # SW 6213426
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:28

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8810 SDG#: DE088-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-214-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SS-0.0-0.5

LLI Sample # SW 6213426
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:28

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8810 SDG#: DE088-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.41	J	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	5.3		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	1.1	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	2.0		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	84	U	84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-214-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SS-0.0-0.5

LLI Sample # SW 6213426
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:28

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8810 SDG#: DE088-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	2.3	U	2.3	3.8		1
01363	p,p-DDD	72-54-8	0.24	J	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.29	J	0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.092	U	0.092	0.38		1
01363	Heptachlor	76-44-8	0.30		0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: endrin ketone.
Due to interfering peaks on the chromatogram, the values reported for technical chlordane represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	3.8		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits. Results from the reextraction are within the limits. The hold time had

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-214-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SS-0.0-0.5

LLI Sample # SW 6213426
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:28

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8810 SDG#: DE088-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.44	21.6		1
07914	Boron	7440-42-8	2.48	J	0.963	5.41		1
01650	Calcium	7440-70-2	3,360		6.63	21.6		1
01654	Iron	7439-89-6	21,200		5.10	21.6		1
01656	Lithium	7439-93-2	23.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,570		2.75	10.8		1
06958	Manganese	7439-96-5	300		0.0844	0.541		1
10145	Phosphorus	7723-14-0	509		0.606	10.8		1
01662	Potassium	7440-09-7	3,500		19.5	54.1		1
01667	Sodium	7440-23-5	133		40.4	108		1
07968	Strontium	7440-24-6	18.8		0.0671	0.541		1
06969	Tin	7440-31-5	2.87	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,300		0.411	1.08		1
10146	Zirconium	7440-67-7	4.09	J	0.909	5.41		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0649	U	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.90		0.0866	0.433		2
06126	Barium	7440-39-3	118		0.117	0.433		2
06127	Beryllium	7440-41-7	0.498		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0996	J	0.0433	0.108		2
06131	Chromium	7440-47-3	17.5		0.130	0.433		2
06132	Cobalt	7440-48-4	6.34		0.0216	0.108		2
06133	Copper	7440-50-8	10.6		0.0714	0.433		2
06135	Lead	7439-92-1	4.98		0.0113	0.216		2
06138	Molybdenum	7439-98-7	0.455		0.0541	0.108		2
06139	Nickel	7440-02-0	11.6		0.108	0.433		2
06141	Selenium	7782-49-2	0.105	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0343	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.265		0.0325	0.108		2
06148	Vanadium	7440-62-2	39.5		0.0238	0.108		2
06149	Zinc	7440-66-6	61.4		0.606	3.25		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.88	1.1		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-214-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SS-0.0-0.5

LLI Sample # SW 6213426
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:28

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8810 SDG#: DE088-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	306		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.74		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 17:15	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/02/2011 11:08	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 18:45	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110600022A	03/02/2011 19:50	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 08:30	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 05:36	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110600022A	03/02/2011 09:05	Maria Davenport	1

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Sample Description: **SL-214-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SS-0.0-0.5

LLI Sample # SW 6213426
LLI Group # 1234297
Account # 13013

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8810 SDG#: DE088-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110565708004	03/04/2011 00:06	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/04/2011 00:06	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/04/2011 00:06	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/04/2011 00:06	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 08:30	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/04/2011 00:06	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/04/2011 00:06	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 08:30	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/04/2011 00:06	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/04/2011 00:06	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/04/2011 00:06	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/04/2011 00:06	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/04/2011 00:06	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 08:30	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:43	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:43	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:43	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:43	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:43	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:43	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 02:00	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:43	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:43	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:43	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:43	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:43	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:43	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:43	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:43	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:43	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202A	03/04/2011 15:02	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201A	03/04/2011 17:39	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11063243201A	03/07/2011 17:05	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202A	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201A	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101B	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401B	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-214-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SS-0.0-0.5

LLI Sample # SW 6213426
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:28

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8810 SDG#: DE088-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-215-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SS-0.0-0.5

LLI Sample # SW 6213427
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:55

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8811 SDG#: DE088-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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Sample Description: SL-215-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SS-0.0-0.5

LLI Sample # SW 6213427
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:55

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8811 SDG#: DE088-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.71	J	0.38	1.9		1
10138	Anthracene	120-12-7	0.66	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.0		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	2.9		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	11		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	1.5	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	4.1		0.76	1.9		1
10138	Pyrene	129-00-0	6.5		0.76	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	0.71	U	0.71	1.9		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	87	U	87	290		1
10401	MCPP (Mecoprop)	93-65-2	500	U	500	500		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19		1
	Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1

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Sample Description: **SL-215-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SS-0.0-0.5

LLI Sample # SW 6213427
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:55

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8811 SDG#: DE088-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9		1
01363	p,p-DDD	72-54-8	0.094	J	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.075	U	0.075	0.39		1
01363	p,p-DDT	50-29-3	0.51		0.075	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.11	J	0.075	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	10		1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.62	J	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.59	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		5.68	22.6		1
07914	Boron	7440-42-8	2.84	J	1.00	5.64		1
01650	Calcium	7440-70-2	3,470		6.92	22.6		1
01654	Iron	7439-89-6	21,000		5.32	22.6		1
01656	Lithium	7439-93-2	25.5		0.24	2.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-215-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SS-0.0-0.5

LLI Sample # SW 6213427
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:55

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8811 SDG#: DE088-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	5,190		2.87	11.3		1
06958	Manganese	7439-96-5	277		0.0881	0.564		1
10145	Phosphorus	7723-14-0	367		0.614	11.0		1
01662	Potassium	7440-09-7	2,960		20.3	56.4		1
01667	Sodium	7440-23-5	89.0	J	42.1	113		1
07968	Strontium	7440-24-6	18.0		0.0700	0.564		1
06969	Tin	7440-31-5	3.09	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,150		0.429	1.13		1
10146	Zirconium	7440-67-7	4.58	J	0.921	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0684	U	0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.93		0.0912	0.456		2
06126	Barium	7440-39-3	101		0.123	0.456		2
06127	Beryllium	7440-41-7	0.612		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.118		0.0456	0.114		2
06131	Chromium	7440-47-3	20.5		0.137	0.456		2
06132	Cobalt	7440-48-4	5.68		0.0228	0.114		2
06133	Copper	7440-50-8	9.24		0.0753	0.456		2
06135	Lead	7439-92-1	6.64		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.450		0.0570	0.114		2
06139	Nickel	7440-02-0	12.5		0.114	0.456		2
06141	Selenium	7782-49-2	0.148	J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0326	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.259		0.0342	0.114		2
06148	Vanadium	7440-62-2	40.2		0.0251	0.114		2
06149	Zinc	7440-66-6	64.8		0.639	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	357		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-215-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SS-0.0-0.5

LLI Sample # SW 6213427
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:55

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8811 SDG#: DE088-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.74	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 17:40	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/02/2011 11:42	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 19:13	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 08:44	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 05:55	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/04/2011 00:10	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/04/2011 00:10	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/04/2011 00:10	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/04/2011 00:10	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 08:33	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/04/2011 00:10	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/04/2011 00:10	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 08:33	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/04/2011 00:10	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/04/2011 00:10	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/04/2011 00:10	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/04/2011 00:10	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-215-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SS-0.0-0.5

LLI Sample # SW 6213427
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:55

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8811 SDG#: DE088-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110565708004	03/04/2011 00:10	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 08:33	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:46	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:46	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:46	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:46	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:46	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:46	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 02:02	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:46	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:46	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:46	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:46	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:46	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:46	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:46	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:46	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:46	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202B	03/04/2011 15:18	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201B	03/04/2011 18:03	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11063243201A	03/07/2011 17:24	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202B	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201B	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101B	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401B	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402B	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-217-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA5A-SS-0.0-0.5

LLI Sample # SW 6213428
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:46

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8812 SDG#: DE088-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(b)fluoranthene	205-99-2	22	J	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	29	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Chrysene	218-01-9	34	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Fluoranthene	206-44-0	40	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-217-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA5A-SS-0.0-0.5

LLI Sample # SW 6213428
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:46

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8812 SDG#: DE088-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	34	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	1.1	J	0.39	1.9		1
10138	Anthracene	120-12-7	2.4		0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	4.8		0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	6.6		0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	7.5		0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	23		7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	82		7.0	21		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.7		0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.84	J	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.94	J	0.78	1.9		1
10138	Naphthalene	91-20-3	1.3	J	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	11		0.78	1.9		1
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	12		0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	1,100		88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.17	J	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-217-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5A-SS-0.0-0.5

LLI Sample # SW 6213428
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:46

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8812 SDG#: DE088-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0		1
01363	p,p-DDD	72-54-8	4.1		0.077	0.40		1
01363	p,p-DDE	72-55-9	39		1.5	8.0		20
01363	p,p-DDT	50-29-3	52		1.5	8.0		20
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	1.4		0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	1.0		0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	1.9		0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	2.7		0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.99		0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.35		0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.97	U	0.97	0.97		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: mirex.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	12	U	12	39		10
10225	Aroclor 5442	12642-23-8	12	U	12	39		10
10225	Aroclor 5460	11126-42-4	210		12	39		10
10225	PCB-1016	12674-11-2	3.9	U	3.9	20		10
10225	PCB-1221	11104-28-2	3.9	U	3.9	20		10
10225	PCB-1232	11141-16-5	3.9	U	3.9	20		10
10225	PCB-1242	53469-21-9	3.9	U	3.9	20		10
10225	PCB-1248	12672-29-6	3.9	U	3.9	20		10
10225	PCB-1254	11097-69-1	62		3.9	20		10
10225	PCB-1260	11096-82-5	53		4.6	20		10
10225	PCB-1262	37324-23-5	3.9	U	3.9	20		10
10225	PCB-1268	11100-14-4	3.9	U	3.9	20		10

The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-217-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA5A-SS-0.0-0.5

LLI Sample # SW 6213428
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:46

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8812 SDG#: DE088-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.66	22.5		1
07914	Boron	7440-42-8	3.01	J	1.00	5.62		1
01650	Calcium	7440-70-2	10,100		6.89	22.5		1
01654	Iron	7439-89-6	21,100		5.30	22.5		1
01656	Lithium	7439-93-2	25.1		0.25	2.3		1
01657	Magnesium	7439-95-4	5,190		2.86	11.2		1
06958	Manganese	7439-96-5	305		0.0877	0.562		1
10145	Phosphorus	7723-14-0	467		0.636	11.4		1
01662	Potassium	7440-09-7	2,740		20.2	56.2		1
01667	Sodium	7440-23-5	99.0	J	41.9	112		1
07968	Strontium	7440-24-6	28.8		0.0697	0.562		1
06969	Tin	7440-31-5	3.08	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,050		0.427	1.12		1
10146	Zirconium	7440-67-7	5.02	J	0.954	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.22		0.0908	0.454		2
06126	Barium	7440-39-3	90.6		0.123	0.454		2
06127	Beryllium	7440-41-7	0.552		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.332		0.0454	0.114		2
06131	Chromium	7440-47-3	25.0		0.136	0.454		2
06132	Cobalt	7440-48-4	7.42		0.0227	0.114		2
06133	Copper	7440-50-8	13.5		0.0749	0.454		2
06135	Lead	7439-92-1	54.3		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.559		0.0568	0.114		2
06139	Nickel	7440-02-0	14.8		0.114	0.454		2
06141	Selenium	7782-49-2	0.140	J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0948	J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.248		0.0341	0.114		2
06148	Vanadium	7440-62-2	40.4		0.0250	0.114		2
06149	Zinc	7440-66-6	93.6		0.636	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0143	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.8		0.23	1.2		1

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Sample Description: **SL-217-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5A-SS-0.0-0.5

LLI Sample # SW 6213428
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:46

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8812 SDG#: DE088-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	381	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.50	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 18:05	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/02/2011 01:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 19:40	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 08:59	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/11/2011 10:20	Jamie L Brillhart	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 06:13	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/04/2011 00:14	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/04/2011 00:14	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/04/2011 00:14	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/04/2011 00:14	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 08:37	Joanne M Gates	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-217-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA5A-SS-0.0-0.5

LLI Sample # SW 6213428
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:46

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8812 SDG#: DE088-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110565708004	03/04/2011 00:14	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/04/2011 00:14	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 08:37	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/04/2011 00:14	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/04/2011 00:14	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/04/2011 00:14	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/04/2011 00:14	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/04/2011 00:14	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 08:37	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:49	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:49	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:49	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:49	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:49	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:49	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 02:03	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:49	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:49	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:49	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:49	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:49	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:49	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:49	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:49	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:49	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202B	03/04/2011 16:03	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201B	03/04/2011 19:39	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11063243201A	03/07/2011 17:30	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202B	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201B	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101B	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401B	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402B	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-218-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-218-SA5A-SS-0.0-0.5

LLI Sample # SW 6213429
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 15:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8813 SDG#: DE088-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

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Sample Description: SL-218-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-218-SA5A-SS-0.0-0.5

LLI Sample # SW 6213429
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 15:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8813 SDG#: DE088-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.44	J	0.39	2.0		1
10138	Anthracene	120-12-7	1.0	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.89	J	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	4.5		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	3.8		0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	2.7		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	29		7.1	21		1
10138	Fluoranthene	206-44-0	4.0		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	1.4	J	0.79	2.0		1
10138	Pyrene	129-00-0	3.9		0.79	2.0		1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	2.4	U	2.4	2.5		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.95	U	0.95	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.95	U	0.95	2.0		1
10401	MCPA	94-74-6	110	U	110	300		1
10401	MCPP (Mecoprop)	93-65-2	89	U	89	300		1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20		1
10401	2,4,5-TP	93-72-1	0.089	U	0.089	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

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Sample Description: **SL-218-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-218-SA5A-SS-0.0-0.5

LLI Sample # SW 6213429
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 15:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8813 SDG#: DE088-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
compounds were affected: MCPA and 2,4-DB.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20		1
01363	Chlordane	57-74-9	1.9	U	1.9	4.0		1
01363	p,p-DDD	72-54-8	0.61		0.078	0.40		1
01363	p,p-DDE	72-55-9	2.5		0.078	0.40		1
01363	p,p-DDT	50-29-3	5.8		0.39	2.0		5
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20		1
01363	Dieldrin	60-57-1	0.18	J	0.078	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.12	U	0.12	0.40		1
01363	Endrin	72-20-8	0.078	U	0.078	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.21	J	0.078	0.40		1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40		1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0		1
01363	Mirex	2385-85-5	0.078	U	0.078	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8		1

The surrogate data in the method blank is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: endosulfan sulfate.
Due to interfering peaks on the chromatogram, the values reported for technical chlordane represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	3.0	U	3.0	9.8		1
10225	Aroclor 5442	12642-23-8	3.0	U	3.0	9.8		1
10225	Aroclor 5460	11126-42-4	22		3.0	9.8		1
10225	PCB-1016	12674-11-2	0.98	U	0.98	5.0		1
10225	PCB-1221	11104-28-2	0.98	U	0.98	5.0		1
10225	PCB-1232	11141-16-5	0.98	U	0.98	5.0		1
10225	PCB-1242	53469-21-9	0.98	U	0.98	5.0		1
10225	PCB-1248	12672-29-6	6.8		0.98	5.0		1
10225	PCB-1254	11097-69-1	0.98	U	0.98	5.0		1
10225	PCB-1260	11096-82-5	7.8		1.2	5.0		1
10225	PCB-1262	37324-23-5	0.98	U	0.98	5.0		1
10225	PCB-1268	11100-14-4	0.98	U	0.98	5.0		1

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Sample Description: **SL-218-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-218-SA5A-SS-0.0-0.5

LLI Sample # SW 6213429
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 15:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8813 SDG#: DE088-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		5.84	23.2		1
07914	Boron	7440-42-8	1.93	J	1.03	5.80		1
01650	Calcium	7440-70-2	3,740		7.11	23.2		1
01654	Iron	7439-89-6	23,200		5.46	23.2		1
01656	Lithium	7439-93-2	22.8		0.26	2.3		1
01657	Magnesium	7439-95-4	5,010		2.95	11.6		1
06958	Manganese	7439-96-5	248		0.0905	0.580		1
10145	Phosphorus	7723-14-0	385		0.656	11.7		1
01662	Potassium	7440-09-7	2,360		20.9	58.0		1
01667	Sodium	7440-23-5	84.2	J	43.3	116		1
07968	Strontium	7440-24-6	19.3		0.0719	0.580		1
06969	Tin	7440-31-5	3.37	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,100		0.441	1.16		1
10146	Zirconium	7440-67-7	4.29	J	0.984	5.86		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0920	J	0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.56		0.0937	0.469		2
06126	Barium	7440-39-3	76.3		0.127	0.469		2
06127	Beryllium	7440-41-7	0.535		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.180		0.0469	0.117		2
06131	Chromium	7440-47-3	18.1		0.141	0.469		2
06132	Cobalt	7440-48-4	4.86		0.0234	0.117		2
06133	Copper	7440-50-8	9.84		0.0773	0.469		2
06135	Lead	7439-92-1	18.2		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.418		0.0586	0.117		2
06139	Nickel	7440-02-0	11.2		0.117	0.469		2
06141	Selenium	7782-49-2	0.123	J	0.0469	0.469		2
06142	Silver	7440-22-4	0.0401	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.216		0.0352	0.117		2
06148	Vanadium	7440-62-2	36.2		0.0258	0.117		2
06149	Zinc	7440-66-6	72.1		0.656	3.52		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0413	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.95	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.24	1.2		1

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Sample Description: **SL-218-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-218-SA5A-SS-0.0-0.5

LLI Sample # SW 6213429
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 15:10

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E8813 SDG#: DE088-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	381	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.06	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 18:31	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/02/2011 02:13	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110590031A	03/06/2011 20:08	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/08/2011 09:27	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110560002A	03/11/2011 10:35	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/11/2011 23:42	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110560002A	02/25/2011 14:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110590031A	03/01/2011 06:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/04/2011 00:18	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/04/2011 00:18	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/04/2011 00:18	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/04/2011 00:18	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 08:40	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/04/2011 00:18	John W Yanzuk II	1

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Sample Description: **SL-218-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-218-SA5A-SS-0.0-0.5

LLI Sample # SW 6213429
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 15:10

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E8813 SDG#: DE088-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110565708004	03/04/2011 00:18	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 08:40	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/04/2011 00:18	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/04/2011 00:18	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/04/2011 00:18	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/04/2011 00:18	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/04/2011 00:18	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 08:40	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 18:52	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 18:52	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 18:52	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 18:52	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 18:52	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 18:52	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 02:05	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 18:52	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 18:52	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 18:52	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 18:52	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 18:52	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 18:52	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 18:52	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 18:52	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 18:52	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202B	03/04/2011 16:18	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201B	03/04/2011 20:03	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11063243201A	03/07/2011 17:49	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202B	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201B	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101B	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401B	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402B	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SB-2.5-3.5

LLI Sample # SW 6213430
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:35

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8814 SDG#: DE088-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.96
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.3		0.96
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.96
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.96
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.96
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.96
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.96
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.3		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.96
06192	Ethylbenzene	100-41-4	0.12	J	0.06	4.3		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.96
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.96
06192	Methylene Chloride	75-09-2	2.9	J	0.26	4.3		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.96

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SB-2.5-3.5

LLI Sample # SW 6213430
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:35

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8814 SDG#: DE088-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.96
06192	Toluene	108-88-3	0.10	J	0.08	4.3		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.96
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.96
06192	m+p-Xylene	179601-23-1	0.37	J	0.18	4.3		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.89
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SB-2.5-3.5

LLI Sample # SW 6213430
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:35

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8814 SDG#: DE088-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SB-2.5-3.5

LLI Sample # SW 6213430
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:35

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8814 SDG#: DE088-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,000		5.40	21.5		1
07914	Boron	7440-42-8	1.27	J	0.955	5.37		1
01650	Calcium	7440-70-2	2,600		6.58	21.5		1
01654	Iron	7439-89-6	26,400		5.05	21.5		1
01656	Lithium	7439-93-2	38.4		0.24	2.2		1
01657	Magnesium	7439-95-4	5,770		2.73	10.7		1
06958	Manganese	7439-96-5	261		0.0837	0.537		1
10145	Phosphorus	7723-14-0	210		0.613	10.9		1
01662	Potassium	7440-09-7	2,180		19.3	53.7		1
01667	Sodium	7440-23-5	117		40.0	107		1
07968	Strontium	7440-24-6	23.6		0.0665	0.537		1
06969	Tin	7440-31-5	3.58	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,230		0.408	1.07		1
10146	Zirconium	7440-67-7	4.44	J	0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0694	J	0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.37		0.0884	0.442		2
06126	Barium	7440-39-3	87.3		0.119	0.442		2
06127	Beryllium	7440-41-7	0.908		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.0442	U	0.0442	0.111		2
06131	Chromium	7440-47-3	23.3		0.133	0.442		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SB-2.5-3.5

LLI Sample # SW 6213430
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:35

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8814 SDG#: DE088-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	6.31	0.0221	0.111		2
06133	Copper	7440-50-8	12.4	0.0729	0.442		2
06135	Lead	7439-92-1	8.29	0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.482	0.0553	0.111		2
06139	Nickel	7440-02-0	13.6	0.111	0.442		2
06141	Selenium	7782-49-2	0.159 J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0159 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.314	0.0332	0.111		2
06148	Vanadium	7440-62-2	41.9	0.0243	0.111		2
06149	Zinc	7440-66-6	63.8	0.619	3.32		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	468	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.46	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-024-SA5A-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-024-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SB-2.5-3.5

LLI Sample # SW 6213430
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:35

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8814 SDG#: DE088-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011 08:54	Holly Berry	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110561AA	02/25/2011 11:43	Jason M Long	22.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105423746	02/23/2011 20:41	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105423746	02/23/2011 21:00	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105423746	02/23/2011 21:00	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105423746	02/23/2011 20:39	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 18:56	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/02/2011 07:44	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 06:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/04/2011 00:29	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/04/2011 00:29	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/04/2011 00:29	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/04/2011 00:29	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 08:50	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/04/2011 00:29	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/04/2011 00:29	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 08:50	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/04/2011 00:29	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/04/2011 00:29	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/04/2011 00:29	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/04/2011 00:29	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/04/2011 00:29	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 08:50	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 19:01	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 19:01	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 19:01	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 19:01	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 19:01	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 19:01	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 02:11	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 19:01	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 19:01	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 19:01	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 19:01	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 19:01	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 19:01	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 19:01	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 19:01	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 19:01	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:24	Damary Valentin	1

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Sample Description: **SL-024-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SB-2.5-3.5

LLI Sample # SW 6213430
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:35

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8814 SDG#: DE088-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202B	03/04/2011 16:34	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201B	03/04/2011 20:27	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11063243201A	03/07/2011 18:13	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202B	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201B	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101B	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401B	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402B	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-026-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SB-3.5-4.5

LLI Sample # SW 6213431
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 11:19

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8815 SDG#: DE088-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		1
06192	Benzene	71-43-2	0.10	U	0.10	4.2		1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		1
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		1
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		1
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		1
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		1
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		1
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		1
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		1
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		1
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		1
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		1
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		1
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		1
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		1
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		1
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		1
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		1
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		1
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		1
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		1
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		1
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		1
06192	Ethylbenzene	100-41-4	0.13	J	0.06	4.2		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		1
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		1
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		1
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		1
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		1
06192	Methylene Chloride	75-09-2	1.4	J	0.25	4.2		1
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SB-3.5-4.5

LLI Sample # SW 6213431
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 11:19

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8815 SDG#: DE088-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		1
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		1
06192	Toluene	108-88-3	0.10	J	0.08	4.2		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		1
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		1
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		1
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		1
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		1
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		1
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		1
06192	m+p-Xylene	179601-23-1	0.42	J	0.18	4.2		1
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		24.85
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.3	U	17.3	34.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SB-3.5-4.5

LLI Sample # SW 6213431
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 11:19

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8815 SDG#: DE088-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1

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Sample Description: SL-026-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SB-3.5-4.5

LLI Sample # SW 6213431
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 11:19

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8815 SDG#: DE088-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.61
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1

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Sample Description: SL-026-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SB-3.5-4.5

LLI Sample # SW 6213431
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8815 SDG#: DE088-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	840	U	840	2,100		1
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.2		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	13		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	13		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	13		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							

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Sample Description: **SL-026-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SB-3.5-4.5

LLI Sample # SW 6213431
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 11:19

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8815 SDG#: DE088-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		5.27	20.9		1
07914	Boron	7440-42-8	0.932	U	0.932	5.24		1
01650	Calcium	7440-70-2	1,480		6.42	20.9		1
01654	Iron	7439-89-6	17,200		4.93	20.9		1
01656	Lithium	7439-93-2	26.5		0.23	2.1		1
01657	Magnesium	7439-95-4	3,480		2.66	10.5		1
06958	Manganese	7439-96-5	165		0.0817	0.524		1
10145	Phosphorus	7723-14-0	105		0.586	10.5		1
01662	Potassium	7440-09-7	1,660		18.8	52.4		1
01667	Sodium	7440-23-5	449		39.1	105		1
07968	Strontium	7440-24-6	14.4		0.0649	0.524		1
06969	Tin	7440-31-5	3.10	J	1.05	10.5		1
06970	Titanium	7440-32-6	921		0.398	1.05		1
10146	Zirconium	7440-67-7	4.42	J	0.880	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0628	U	0.0628	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.58		0.0838	0.419		2
06126	Barium	7440-39-3	62.2		0.113	0.419		2
06127	Beryllium	7440-41-7	0.472		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0419	U	0.0419	0.105		2
06131	Chromium	7440-47-3	15.2		0.126	0.419		2
06132	Cobalt	7440-48-4	5.16		0.0209	0.105		2
06133	Copper	7440-50-8	6.43		0.0691	0.419		2
06135	Lead	7439-92-1	4.94		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.364		0.0524	0.105		2
06139	Nickel	7440-02-0	8.37		0.105	0.419		2
06141	Selenium	7782-49-2	0.107	J	0.0419	0.419		2
06142	Silver	7440-22-4	0.0126	U	0.0126	0.105		2
06145	Thallium	7440-28-0	0.233		0.0314	0.105		2
06148	Vanadium	7440-62-2	27.0		0.0230	0.105		2
06149	Zinc	7440-66-6	43.3		0.586	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8		0.84	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.84	1.6		1

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Sample Description: SL-026-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SB-3.5-4.5

LLI Sample # SW 6213431
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 11:19

Submitted: 02/23/2011 10:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E8815 SDG#: DE088-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	445		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.82		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-026-SA5A-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011	09:17	Holly Berry	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110561AA	02/25/2011	12:03	Jason M Long	24.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105423746	02/23/2011	20:47	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105423746	02/23/2011	21:00	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105423746	02/23/2011	21:00	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105423746	02/23/2011	20:45	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11057SLB026	03/03/2011	18:02	Timothy J Trees	1

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Sample Description: SL-026-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SB-3.5-4.5

LLI Sample # SW 6213431
LLI Group # 1234297
Account # 13013

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E8815 SDG#: DE088-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 19:21	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/02/2011 08:18	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11057SLB026	02/28/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34A	03/02/2011 14:05	Marie D John	24.61
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201105423746	02/23/2011 20:44	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110600010A	03/05/2011 03:09	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110540024A	02/25/2011 20:15	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110600022A	03/02/2011 19:56	Jenifer E Hess	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 06:51	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110600022A	03/02/2011 09:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110540024A	02/24/2011 09:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110600010A	03/01/2011 15:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110560016A	03/01/2011 01:30	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110560023A	02/25/2011 21:42	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110550001A	02/24/2011 18:00	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110560015A	02/28/2011 18:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110560016A	02/26/2011 08:50	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110560015A	02/26/2011 08:50	Denise L Trimby	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110550001A	02/24/2011 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110560023A	02/25/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/04/2011 00:33	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/04/2011 00:33	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/04/2011 00:33	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/04/2011 00:33	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 08:54	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/04/2011 00:33	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/04/2011 00:33	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 08:54	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/04/2011 00:33	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/04/2011 00:33	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/04/2011 00:33	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/04/2011 00:33	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/04/2011 00:33	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 08:54	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 19:04	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-026-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SB-3.5-4.5

LLI Sample # SW 6213431
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 11:19

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8815 SDG#: DE088-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 19:04	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 19:04	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 19:04	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 19:04	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 19:04	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 02:12	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 19:04	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 19:04	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 19:04	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 19:04	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 19:04	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 19:04	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 19:04	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 19:04	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 19:04	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202B	03/04/2011 17:19	Venia B McFadden	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11060199202B	03/04/2011 17:19	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201B	03/04/2011 20:51	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11063243201A	03/07/2011 18:26	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11063102201A	03/04/2011 18:36	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202B	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201B	03/04/2011 10:17	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11063102201A	03/04/2011 09:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11055182101B	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401B	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-031-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SB-4.0-5.0

LLI Sample # SW 6213432
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:04

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8816 SDG#: DE088-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	U	7.8	9.3		1.06
06192	Benzene	71-43-2	0.12	U	0.12	4.7		1.06
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.7		1.06
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.7		1.06
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.7		1.06
06192	Bromoform	75-25-2	0.47	U	0.47	4.7		1.06
06192	Bromomethane	74-83-9	0.29	U	0.29	4.7		1.06
06192	2-Butanone	78-93-3	1.4	U	1.4	9.3		1.06
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.7		1.06
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.7		1.06
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.7		1.06
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.7		1.06
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.7		1.06
06192	Chloroethane	75-00-3	0.15	U	0.15	4.7		1.06
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.7		1.06
06192	Chloroform	67-66-3	0.14	U	0.14	4.7		1.06
06192	Chloromethane	74-87-3	0.38	U	0.38	4.7		1.06
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.7		1.06
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.7		1.06
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1.06
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82	U	0.82	4.7		1.06
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.7		1.06
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.7		1.06
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.7		1.06
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.7		1.06
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.7		1.06
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.7		1.06
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.7		1.06
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.7		1.06
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.7		1.06
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.7		1.06
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.7		1.06
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.7		1.06
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.7		1.06
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.7		1.06
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.7		1.06
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.7		1.06
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.7		1.06
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.7		1.06
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.7		1.06
06192	Freon 113	76-13-1	0.13	U	0.13	4.7		1.06
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1.06
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.7		1.06
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3		1.06
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.7		1.06
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.7		1.06
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.7		1.06
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.3		1.06
06192	Methylene Chloride	75-09-2	1.6	J	0.28	4.7		1.06
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.7		1.06

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-031-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SB-4.0-5.0

LLI Sample # SW 6213432
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:04

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8816 SDG#: DE088-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.7		1.06
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.7		1.06
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.7		1.06
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.7		1.06
06192	Toluene	108-88-3	0.1	J	0.09	4.7		1.06
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.7		1.06
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.7		1.06
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.7		1.06
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.7		1.06
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.7		1.06
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.7		1.06
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.7		1.06
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.7		1.06
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.7		1.06
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.7		1.06
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.7		1.06
06192	o-Xylene	95-47-6	0.20	U	0.20	4.7		1.06
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		26.37
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-031-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SB-4.0-5.0

LLI Sample # SW 6213432
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:04

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8816 SDG#: DE088-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-031-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SB-4.0-5.0

LLI Sample # SW 6213432
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:04

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8816 SDG#: DE088-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,400		5.55	22.1		1
07914	Boron	7440-42-8	1.35	J	0.981	5.51		1
01650	Calcium	7440-70-2	2,410		6.76	22.1		1
01654	Iron	7439-89-6	28,300		5.19	22.1		1
01656	Lithium	7439-93-2	29.7		0.24	2.1		1
01657	Magnesium	7439-95-4	6,470		2.80	11.0		1
06958	Manganese	7439-96-5	188		0.0860	0.551		1
10145	Phosphorus	7723-14-0	124		0.599	10.7		1
01662	Potassium	7440-09-7	2,000		19.8	55.1		1
01667	Sodium	7440-23-5	1,500		41.1	110		1
07968	Strontium	7440-24-6	26.8		0.0684	0.551		1
06969	Tin	7440-31-5	3.47	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,200		0.419	1.10		1
10146	Zirconium	7440-67-7	5.08	J	0.899	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0854	J	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.88		0.0856	0.428		2
06126	Barium	7440-39-3	49.7		0.116	0.428		2
06127	Beryllium	7440-41-7	0.688		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0428	U	0.0428	0.107		2
06131	Chromium	7440-47-3	24.2		0.128	0.428		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-031-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SB-4.0-5.0

LLI Sample # SW 6213432
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:04

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8816 SDG#: DE088-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	4.01	0.0214	0.107		2
06133	Copper	7440-50-8	9.07	0.0706	0.428		2
06135	Lead	7439-92-1	6.72	0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.500	0.0535	0.107		2
06139	Nickel	7440-02-0	10.8	0.107	0.428		2
06141	Selenium	7782-49-2	0.135 J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0128 U	0.0128	0.107		2
06145	Thallium	7440-28-0	0.269	0.0321	0.107		2
06148	Vanadium	7440-62-2	41.4	0.0235	0.107		2
06149	Zinc	7440-66-6	46.9	0.599	3.21		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	16.2	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	444	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.34	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-031-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-031-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SB-4.0-5.0

LLI Sample # SW 6213432
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:04

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8816 SDG#: DE088-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011 09:39	Holly Berry	1.06
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110561AA	02/25/2011 12:23	Jason M Long	26.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105423746	02/23/2011 20:52	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105423746	02/23/2011 21:00	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105423746	02/23/2011 21:00	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105423746	02/23/2011 20:50	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 19:46	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/02/2011 08:52	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 07:09	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/04/2011 00:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/04/2011 00:37	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/04/2011 00:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/04/2011 00:37	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 08:57	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/04/2011 00:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/04/2011 00:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 08:57	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/04/2011 00:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/04/2011 00:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/04/2011 00:37	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/04/2011 00:37	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/04/2011 00:37	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 08:57	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 19:07	David K Beck	2
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 19:07	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 19:07	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 19:07	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 19:07	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 19:07	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 02:14	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 19:07	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 19:07	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 19:07	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 19:07	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 19:07	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 19:07	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 19:07	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 19:07	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 19:07	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:29	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SB-4.0-5.0

LLI Sample # SW 6213432
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:04

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8816 SDG#: DE088-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202B	03/04/2011 17:34	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201B	03/04/2011 21:16	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11063243201A	03/07/2011 18:38	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202B	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201B	03/04/2011 10:17	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11055182101B	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401B	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402B	03/03/2011 18:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-035-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SB-4.0-5.0

LLI Sample # SW 6213433
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 16:15

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8817 SDG#: DE088-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.92
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.92
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.1		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.92
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.92
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.92
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.92
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.92
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.92
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1		0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.92
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.92
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.92
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.92
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.92
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.92
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.92
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.92
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.92
06192	Ethylbenzene	100-41-4	0.17	J	0.06	4.1		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.92
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.92
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.92
06192	Methylene Chloride	75-09-2	1.9	J	0.24	4.1		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.92

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Sample Description: SL-035-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SB-4.0-5.0

LLI Sample # SW 6213433
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 16:15

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8817 SDG#: DE088-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.92
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.92
06192	Toluene	108-88-3	0.11	J	0.08	4.1		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.92
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.1		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.92
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.92
06192	m+p-Xylene	179601-23-1	0.59	J	0.17	4.1		0.92
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.28
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	42.6		18.3	36.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SB-4.0-5.0

LLI Sample # SW 6213433
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 16:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8817 SDG#: DE088-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1

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Sample Description: SL-035-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SB-4.0-5.0

LLI Sample # SW 6213433
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 16:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E8817 SDG#: DE088-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.41
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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Sample Description: SL-035-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SB-4.0-5.0

LLI Sample # SW 6213433
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E8817 SDG#: DE088-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The LCS recovery for PCB-1016, PCB-1260 and DCB are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.54	J	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	2.0		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-035-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SB-4.0-5.0

LLI Sample # SW 6213433
LLI Group # 1234297
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E8817 SDG#: DE088-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,100		5.50	21.9		1
07914	Boron	7440-42-8	1.82	J	0.973	5.46		1
01650	Calcium	7440-70-2	1,930		6.70	21.9		1
01654	Iron	7439-89-6	24,300		5.15	21.9		1
01656	Lithium	7439-93-2	28.7		0.24	2.1		1
01657	Magnesium	7439-95-4	4,960		2.78	10.9		1
06958	Manganese	7439-96-5	237		0.0852	0.546		1
10145	Phosphorus	7723-14-0	156		0.600	10.7		1
01662	Potassium	7440-09-7	1,670		19.7	54.6		1
01667	Sodium	7440-23-5	663		40.8	109		1
07968	Strontium	7440-24-6	22.5		0.0678	0.546		1
06969	Tin	7440-31-5	3.25	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,170		0.415	1.09		1
10146	Zirconium	7440-67-7	5.09	J	0.900	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0984	J	0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.10		0.0874	0.437		2
06126	Barium	7440-39-3	56.9		0.118	0.437		2
06127	Beryllium	7440-41-7	0.709		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0459	J	0.0437	0.109		2
06131	Chromium	7440-47-3	21.3		0.131	0.437		2
06132	Cobalt	7440-48-4	6.37		0.0219	0.109		2
06133	Copper	7440-50-8	6.90		0.0721	0.437		2
06135	Lead	7439-92-1	5.91		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.462		0.0546	0.109		2
06139	Nickel	7440-02-0	11.4		0.109	0.437		2
06141	Selenium	7782-49-2	0.0835	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0429	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.233		0.0328	0.109		2
06148	Vanadium	7440-62-2	40.2		0.0240	0.109		2
06149	Zinc	7440-66-6	43.6		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0037	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.3		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.9		0.88	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-035-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SB-4.0-5.0

LLI Sample # SW 6213433
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 16:15

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8817 SDG#: DE088-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	25.7	J	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	443		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-035-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011	10:01	Holly Berry	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110561AA	02/25/2011	12:44	Jason M Long	23.28
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105423746	02/23/2011	20:58	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105423746	02/23/2011	21:00	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105423746	02/23/2011	21:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105423746	02/23/2011	20:55	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11057SLB026	03/03/2011	18:18	Timothy J Trees	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-035-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SB-4.0-5.0

LLI Sample # SW 6213433
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 16:15

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8817 SDG#: DE088-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11055SLC026	03/07/2011 20:10	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLB026	03/02/2011 09:26	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11057SLB026	02/28/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLB026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11055SLC026	02/24/2011 11:15	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34A	03/02/2011 14:42	Marie D John	24.41
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201105423746	02/23/2011 20:54	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110600010A	03/05/2011 03:52	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110540024A	02/25/2011 20:25	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110600022A	03/02/2011 20:08	Jenifer E Hess	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110560019A	03/11/2011 07:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110560019A	02/26/2011 08:00	Olivia Arosemena	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110600022A	03/02/2011 09:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110540024A	02/24/2011 09:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110600010A	03/01/2011 15:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110560016A	03/01/2011 01:55	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110560023A	02/25/2011 21:57	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110550001A	02/24/2011 18:17	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110560015A	02/28/2011 18:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110560016A	02/26/2011 08:50	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110560015A	02/26/2011 08:50	Denise L Trimby	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110550001A	02/24/2011 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110560023A	02/25/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110565708004	03/04/2011 00:41	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110565708004	03/04/2011 00:41	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110565708004	03/04/2011 00:41	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110565708004	03/04/2011 00:41	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110635708002	03/07/2011 09:01	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110565708004	03/04/2011 00:41	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110565708004	03/04/2011 00:41	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110635708002	03/07/2011 09:01	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110565708004	03/04/2011 00:41	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110565708004	03/04/2011 00:41	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110565708004	03/04/2011 00:41	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110565708004	03/04/2011 00:41	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110565708004	03/04/2011 00:41	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110635708002	03/07/2011 09:01	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110561026001A	03/05/2011 19:10	David K Beck	2

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Sample Description: **SL-035-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SB-4.0-5.0

LLI Sample # SW 6213433
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 16:15

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8817 SDG#: DE088-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110561026001A	03/05/2011 19:10	David K Beck	2
06126	Barium	SW-846 6020	1	110561026001D	03/05/2011 19:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	110561026001A	03/05/2011 19:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	110561026001A	03/05/2011 19:10	David K Beck	2
06131	Chromium	SW-846 6020	1	110561026001A	03/05/2011 19:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	110561026001A	03/08/2011 02:16	David K Beck	2
06133	Copper	SW-846 6020	1	110561026001A	03/05/2011 19:10	David K Beck	2
06135	Lead	SW-846 6020	1	110561026001A	03/05/2011 19:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110561026001C	03/05/2011 19:10	David K Beck	2
06139	Nickel	SW-846 6020	1	110561026001A	03/05/2011 19:10	David K Beck	2
06141	Selenium	SW-846 6020	1	110561026001B	03/05/2011 19:10	David K Beck	2
06142	Silver	SW-846 6020	1	110561026001A	03/05/2011 19:10	David K Beck	2
06145	Thallium	SW-846 6020	1	110561026001A	03/05/2011 19:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	110561026001A	03/05/2011 19:10	David K Beck	2
06149	Zinc	SW-846 6020	1	110561026001A	03/05/2011 19:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	110565711003	03/01/2011 09:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110565708004	02/28/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110635708002	03/06/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110561026001	02/28/2011 09:15	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110565711003	02/28/2011 10:59	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060199202B	03/04/2011 17:50	Venia B McFadden	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11060199202B	03/04/2011 17:50	Venia B McFadden	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11063621201B	03/04/2011 21:40	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11063243201A	03/07/2011 18:45	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11063102201A	03/04/2011 18:38	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060199202B	03/03/2011 16:00	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11063621201B	03/04/2011 10:17	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11063102201A	03/04/2011 09:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11055182101B	02/24/2011 13:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11055039401B	02/24/2011 13:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11063243201A	03/04/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-022211 Water
SSFL Area IV Collocated Soil Sampling
TB-022211

LLI Sample # WW 6213434
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 16:30

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8818 SDG#: DE088-18TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-022211 Water
SSFL Area IV Collocated Soil Sampling
TB-022211

LLI Sample # WW 6213434
LLI Group # 1234297
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 16:30

Submitted: 02/23/2011 10:10
Reported: 03/18/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8818 SDG#: DE088-18TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110591AA	02/28/2011	12:25	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110551AA	02/24/2011	13:59	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110551AA	02/24/2011	13:59	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110591AA	02/28/2011	12:25	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11059B20A	02/28/2011	12:11	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11059B20A	02/28/2011	12:11	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234297
Reported: 03/18/11 at 02:13 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110561AA	Sample number(s): 6213430-6213433									
Acetone	6.7	U	6.7	8.0	ug/kg	181		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	105		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	103		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	89		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	70		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	141		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	103		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	105		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	103		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	100		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	71		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	99		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	104		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	89		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	75		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	92		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	88		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	101		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	100		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	75		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	105		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	104		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	115		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	93		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	119		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	101		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	99		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	134		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234297
Reported: 03/18/11 at 02:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	104		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	112		61-134		
Methylene Chloride	0.60	J	0.24	4.0	ug/kg	108		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	107		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	97		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	96		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	101		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	100		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	109		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	99		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	103		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	98		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	103		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	106		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	94		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
Batch number: E110551AA	Sample number(s): 6213434									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	111	111	80-123	0	30
Batch number: E110561AA	Sample number(s): 6213430-6213433									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	111	103	70-130	7	30
Batch number: Y110591AA	Sample number(s): 6213434									
Acetone	6	U	6.	20	ug/l	81	79	49-234	3	30
Benzene	0.5	U	0.5	5	ug/l	95	95	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	94	95	80-120	1	30
Bromoform	1	U	1.	5	ug/l	80	84	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	87	87	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	101	101	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	99	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	93	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	93	93	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	80	80	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	118	116	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	100	99	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	80	81	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	100	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	96	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	48	50	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	93	92	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	91	91	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	99	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	95	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	96	96	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	76	74	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	98	97	79-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234297
Reported: 03/18/11 at 02:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	107	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	84	85	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	92	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	98	96	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	102	102	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	93	94	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	98	96	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	94	95	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	98	79-120	1	30
Freon 113	2	U	2.	10	ug/l	82	82	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	93	94	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	86	87	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	103	102	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	96	95	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	100	99	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	105	106	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	89	90	80-120	0	30
n-Propylbenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
Styrene	1	U	1.	5	ug/l	91	93	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	94	96	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	102	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	92	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	95	95	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	87	89	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	92	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	84	84	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	98	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	95	95	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	92	91	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	107	106	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	101	101	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	99	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	79	79	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	94	93	80-120	1	30

Batch number: 11055SLC026 Sample number(s): 6213414-6213419,6213421-6213433

Acenaphthene	17 U	17.	170	ug/kg	93		76-111
Acenaphthylene	17 U	17.	170	ug/kg	97		75-122
Aniline	170 U	170.	500	ug/kg	86		34-94
Anthracene	17 U	17.	170	ug/kg	92		76-112
Benzidine	1,200 U	1,200.	3,300	ug/kg	47		15-121
Benzo(a)anthracene	17 U	17.	170	ug/kg	94		73-112
Benzo(a)pyrene	17 U	17.	170	ug/kg	96		69-122
Benzo(b)fluoranthene	17 U	17.	170	ug/kg	105		61-127
Benzo(g,h,i)perylene	17 U	17.	170	ug/kg	87		65-122
Benzo(k)fluoranthene	17 U	17.	170	ug/kg	106		67-125
Benzoic acid	170 U	170.	500	ug/kg	87		62-113
Benzyl alcohol	170 U	170.	500	ug/kg	81		68-111
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	94		79-117
Butylbenzylphthalate	17 U	17.	170	ug/kg	96		75-115

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234297
Reported: 03/18/11 at 02:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-butylphthalate	17	U	17.	170	ug/kg	98		79-112		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	84		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	43		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	81		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	74		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	88		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	64		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	90		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Chrysene	17	U	17.	170	ug/kg	89		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	87		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	81		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	82		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	83		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	64		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	86		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	90		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	93		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	83		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	81		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	87		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Fluoranthene	17	U	17.	170	ug/kg	98		78-116		
Fluorene	17	U	17.	170	ug/kg	90		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	97		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	82		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	74		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	90		64-119		
Isophorone	17	U	17.	170	ug/kg	83		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	89		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	89		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	83		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	81		66-117		
Naphthalene	17	U	17.	170	ug/kg	85		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	80		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	96		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	70		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	74		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	63		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	100		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	80		51-117		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234297
Reported: 03/18/11 at 02:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenanthrene	17	U	17.	170	ug/kg	91		77-113		
Phenol	17	U	17.	170	ug/kg	79		58-112		
Pyrene	17	U	17.	170	ug/kg	97		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	91		78-111		
Batch number: 11056SLB026	Sample number(s): 6213414-6213419,6213421-6213433									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	92		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	90		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	97		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	96		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	99		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	104		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	97		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	102		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	93		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	88		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	98		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	77		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	83		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	96		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	89		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	97		56-121		
Batch number: 11057SLB026	Sample number(s): 6213431,6213433									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	100		70-130		
Batch number: 11059B20A	Sample number(s): 6213434									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 11060A34A	Sample number(s): 6213431,6213433									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69		67-119		
Batch number: 110600010A	Sample number(s): 6213431,6213433									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	107		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	101	100	54-134	1	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	101	99	54-134	1	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	105		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	100		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	104		80-120		
HMX	100 U		100.	300	ug/kg	96		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	100		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	91		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	98		73-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234297
Reported: 03/18/11 at 02:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	U									
4-Nitrotoluene	80	U	80.	120	ug/kg	97		80-120		
PETN	800		800.	2,400	ug/kg	107		80-120		
	U									
RDX	50	U	50.	120	ug/kg	97		75-131		
Tetryl	61	U	61.	120	ug/kg	113		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	111		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
Batch number: 110540024A	Sample number(s): 6213431,6213433									
17a Formaldehyde by 8315A	600		600.	1,500	ug/kg	105		80-126		
	U									
Batch number: 110590031A	Sample number(s): 6213414-6213419,6213421-6213429									
2,4-D	1.2	U	1.2	3.6	ug/kg	84		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	33		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	83		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	82		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	17		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	99		62-170		
MCPA	76	U	76.	250	ug/kg	81		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	129		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	78		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	81		68-114		
Batch number: 110600022A	Sample number(s): 6213415,6213426,6213431,6213433									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	98		85-115		
Batch number: 110560002A	Sample number(s): 6213414-6213419,6213421-6213429									
Aldrin	0.066	U	0.066	0.17	ug/kg	127		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	85		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	100		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	94		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	103		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	101		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	109		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	103		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	103		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	76		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	117		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	135		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	102		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	79		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	123		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	94		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	86		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	109		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110560019A	Sample number(s): 6213416-6213419,6213421,6213423-6213428,6213430-6213433									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	99	91	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	127*		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	150*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110590024A	Sample number(s): 6213414-6213415,6213422,6213429									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	67	67	36-106	0	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	85		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	99		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110560016A	Sample number(s): 6213431,6213433									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	104		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	109		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	105		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	75		66-113		
Batch number: 110550001A	Sample number(s): 6213431,6213433									
Diethylene glycol	5.0	U	5.0	13	mg/kg	101		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	103		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	102		75-125		
Batch number: 110560023A	Sample number(s): 6213431,6213433									
Ethanol	100 U		100.	500	ug/kg	91		75-112		
Isopropanol	100 U		100.	500	ug/kg	96		75-125		
Methanol	100 U		100.	500	ug/kg	94		75-134		
Batch number: 110560015A	Sample number(s): 6213431,6213433									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	84		75-125		
Batch number: 110561026001A	Sample number(s): 6213414-6213433									
Antimony	0.0588	U	0.0588	0.196	mg/kg	57		11-208		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	101		80-120		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	103		82-118		
Cadmium	0.0392	U	0.0392	0.0980	mg/kg	103		82-118		
Chromium	0.118	U	0.118	0.392	mg/kg	104		80-120		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	98		82-118		
Copper	0.0698	J	0.0647	0.392	mg/kg	106		80-120		
Lead	0.0102	U	0.0102	0.196	mg/kg	103		80-120		
Nickel	0.0980	U	0.0980	0.392	mg/kg	106		80-120		
Silver	0.0118	U	0.0118	0.0980	mg/kg	105		66-134		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	103		81-119		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	98		90-110		
Zinc	0.549	U	0.549	2.94	mg/kg	103		78-122		
Batch number: 110561026001B	Sample number(s): 6213414-6213433									
Selenium	0.0392	U	0.0392	0.392	mg/kg	103		79-122		
Batch number: 110561026001C	Sample number(s): 6213414-6213433									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	102		78-122		
Batch number: 110561026001D	Sample number(s): 6213414-6213433									
Barium	0.106	U	0.106	0.392	mg/kg	107		79-121		
Batch number: 110565708004	Sample number(s): 6213414-6213433									
Aluminum	4.88	U	4.88	19.4	mg/kg	98		61-110		
Boron	0.864	U	0.864	4.85	mg/kg	95		78-110		
Calcium	6.00	J	5.95	19.4	mg/kg	99		88-110		
Iron	4.57	U	4.57	19.4	mg/kg	89		61-110		
Magnesium	2.47	U	2.47	9.71	mg/kg	99		82-110		
Manganese	0.0757	U	0.0757	0.485	mg/kg	100		81-119		
Potassium	17.5	U	17.5	48.5	mg/kg	98		78-110		
Sodium	36.2	U	36.2	97.1	mg/kg	95		87-110		
Strontium	0.0602	U	0.0602	0.485	mg/kg	106		79-121		
Tin	1.83	J	0.971	9.71	mg/kg	98		90-114		
Titanium	0.369	U	0.369	0.971	mg/kg	86		80-120		
Batch number: 110565711003	Sample number(s): 6213414-6213433									
Mercury	0.0028	U	0.0028	0.0963	mg/kg	95		88-123		
Batch number: 110635708002	Sample number(s): 6213414-6213433									
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Phosphorus	1.28	J	0.560	10.0	mg/kg	104		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		
Batch number: 11060199202A	Sample number(s): 6213414-6213418,6213420-6213426									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	110		90-110		
Batch number: 11060199202B	Sample number(s): 6213427-6213433									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	110		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11063102201A	Sample number(s): 6213431,6213433									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11063243201A	Sample number(s): 6213414-6213418,6213420-6213433									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	88		80-120		
Batch number: 11063621201A	Sample number(s): 6213414-6213418,6213420-6213426									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11063621201B	Sample number(s): 6213427-6213433									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11055039401A	Sample number(s): 6213414-6213417,6213420-6213425									
22a pH by 9045C						100		95-105		
Batch number: 11055039401B	Sample number(s): 6213426-6213433									
22a pH by 9045C						100		95-105		

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11055182101A	Sample number(s): 6213414-6213417,6213420-6213425								
32a OR Potential					99		98-102		
Batch number: 11055182101B	Sample number(s): 6213426-6213433								
32a OR Potential					99		98-102		
Batch number: 11062162402A	Sample number(s): 6213414-6213426								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
Batch number: 11062162402B	Sample number(s): 6213427-6213430,6213432								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11069162401A	Sample number(s): 6213431,6213433								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110561AA	Sample number(s): 6213430-6213433 UNSPK: P214502								
Acetone	104	99	15-210	1	30				
Benzene	113	105	55-143	3	30				
Bromobenzene	111	101	43-139	6	30				
Bromochloromethane	105	102	60-137	1	30				
Bromodichloromethane	101	94	53-136	3	30				
Bromoform	88	81	38-124	5	30				
Bromomethane	70	67	42-168	0	30				
2-Butanone	96	90	37-163	3	30				
n-Butylbenzene	115	97	30-146	13	30				
sec-Butylbenzene	116	103	33-157	8	30				
tert-Butylbenzene	112	102	41-152	6	30				
Carbon Tetrachloride	110	103	45-153	3	30				
Chlorobenzene	107	98	49-135	5	30				
Chloroethane	73	70	39-152	0	30				
2-Chloroethyl Vinyl Ether	96	95	32-139	3	30				
Chloroform	109	103	61-142	3	30				
Chloromethane	97	92	51-163	1	30				
2-Chlorotoluene	111	102	42-146	5	30				
4-Chlorotoluene	112	101	39-145	7	30				
Chlorotrifluoroethene	79	79	70-130	1	30				
1,2-Dibromo-3-chloropropane	85	73	30-139	11	30				
Dibromochloromethane	90	83	51-128	5	30				
1,2-Dibromoethane	100	92	54-129	5	30				
Dibromomethane	103	96	57-130	3	30				
1,2-Dichlorobenzene	107	94	36-133	9	30				
1,3-Dichlorobenzene	108	95	34-134	9	30				
1,4-Dichlorobenzene	107	94	35-136	9	30				
Dichlorodifluoromethane	83	78	26-151	2	30				
1,1-Dichloroethane	112	105	63-142	3	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichloroethane	108	99	68-131	5	30				
1,1-Dichloroethene	126	119	61-149	3	30				
cis-1,2-Dichloroethene	112	104	60-136	4	30				
trans-1,2-Dichloroethene	115	108	59-142	2	30				
1,2-Dichloropropane	108	100	62-135	4	30				
1,3-Dichloropropane	102	94	58-129	5	30				
2,2-Dichloropropane	112	104	53-147	3	30				
1,1-Dichloropropene	117	110	54-145	3	30				
cis-1,3-Dichloropropene	99	94	51-131	1	30				
trans-1,3-Dichloropropene	94	87	49-129	5	30				
Ethylbenzene	110	101	44-141	5	30				
Freon 113	131	118	56-156	8	30				
Freon 133a	109	111	61-131	3	30				
Hexachlorobutadiene	102	78	10-155	24	30				
2-Hexanone	92	84	32-160	5	30				
Isopropylbenzene	111	100	38-144	7	30				
p-Isopropyltoluene	115	102	29-152	9	30				
Methyl Tertiary Butyl Ether	102	94	55-129	5	30				
4-Methyl-2-pentanone	99	91	46-139	4	30				
Methylene Chloride	116	103	61-141	8	30				
n-Propylbenzene	118	107	39-157	7	30				
Styrene	105	95	35-134	7	30				
1,1,1,2-Tetrachloroethane	101	91	52-130	6	30				
1,1,2,2-Tetrachloroethane	95	85	40-152	7	30				
Tetrachloroethene	110	100	42-149	5	30				
Toluene	110	102	50-146	4	30				
1,2,3-Trichlorobenzene	95	79	10-140	15	30				
1,2,4-Trichlorobenzene	97	81	10-136	14	30				
1,1,1-Trichloroethane	117	111	64-142	2	30				
1,1,2-Trichloroethane	101	91	54-139	6	30				
Trichloroethene	111	105	53-144	2	30				
Trichlorofluoromethane	108	103	47-163	1	30				
1,2,3-Trichloropropane	98	89	45-154	6	30				
1,2,4-Trimethylbenzene	114	102	37-149	7	30				
1,3,5-Trimethylbenzene	113	102	38-150	7	30				
Vinyl Chloride	103	98	50-154	1	30				
m+p-Xylene	109	98	44-137	6	30				
o-Xylene	106	97	42-137	5	30				
Batch number: E110561AA	Sample number(s): 6213430-6213433 UNSPK: P214502								
1,4-Dioxane	103	93	70-130	8	30				
Batch number: 11055SLC026	Sample number(s): 6213414-6213419,6213421-6213433 UNSPK: 6213417								
Acenaphthene	93	91	75-115	3	30				
Acenaphthylene	96	90	81-110	7	30				
Aniline	88	92	35-95	3	30				
Anthracene	104	94	75-115	10	30				
Benzidine	44	48	35-141	7	30				
Benzo(a)anthracene	101	96	65-122	5	30				
Benzo(a)pyrene	87	94	57-126	7	30				
Benzo(b)fluoranthene	85	88	59-125	2	30				
Benzo(g,h,i)perylene	93	98	59-127	4	30				
Benzo(k)fluoranthene	85	96	56-132	11	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234297
Reported: 03/18/11 at 02:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzoic acid	67	61	10-173	10	30				
Benzyl alcohol	92	89	67-115	5	30				
4-Bromophenyl-phenylether	97	98	67-129	0	30				
Butylbenzylphthalate	104	95	73-134	10	30				
Di-n-butylphthalate	93	97	67-123	4	30				
Carbazole	105	89	64-120	17	30				
4-Chloro-3-methylphenol	82	86	76-110	4	30				
4-Chloroaniline	77	83	23-95	7	30				
bis(2-Chloroethoxy)methane	85	88	75-104	3	30				
bis(2-Chloroethyl)ether	83	79	60-116	5	30				
bis(2-Chloroisopropyl)ether	92	91	55-142	2	30				
2-Chloronaphthalene	157*	81	50-141	64*	30				
2-Chlorophenol	96	92	73-121	5	30				
4-Chlorophenyl-phenylether	91	99	80-109	8	30				
Chrysene	94	100	62-128	5	30				
Dibenz(a,h)anthracene	90	93	65-125	3	30				
Dibenzofuran	94	95	71-112	0	30				
1,2-Dichlorobenzene	91	86	66-108	7	30				
1,3-Dichlorobenzene	88	84	63-109	6	30				
1,4-Dichlorobenzene	89	83	70-100	8	30				
3,3'-Dichlorobenzidine	88	95	16-119	7	30				
2,4-Dichlorophenol	94	97	78-117	3	30				
Diethylphthalate	90	89	66-118	1	30				
2,4-Dimethylphenol	86	91	78-110	6	30				
3,5-Dimethylphenol	94	96	70-130	2	30				
Dimethylphthalate	93	101	64-118	8	30				
4,6-Dinitro-2-methylphenol	62	34	24-116	59*	30				
2,4-Dinitrophenol	53	24	20-143	78*	30				
2,4-Dinitrotoluene	91	94	73-113	2	30				
2,6-Dinitrotoluene	93	96	69-123	3	30				
1,2-Diphenylhydrazine	89	89	71-129	0	30				
bis(2-Ethylhexyl)phthalate	103	102	63-122	2	30				
Fluoranthene	89	84	73-112	6	30				
Fluorene	90	90	77-111	0	30				
Hexachlorobenzene	100	100	77-114	1	30				
Hexachlorobutadiene	99	97	62-120	4	30				
Hexachlorocyclopentadiene	69	58	10-153	17	30				
Hexachloroethane	80	75	57-109	6	30				
Indeno(1,2,3-cd)pyrene	90	96	61-126	5	30				
Isophorone	87	88	73-102	0	30				
1-Methylnaphthalene	99	95	73-112	5	30				
2-Methylnaphthalene	89	93	76-114	3	30				
2-Methylphenol	90	85	75-111	5	30				
4-Methylphenol	82	84	71-111	1	30				
Naphthalene	92	87	72-116	6	30				
2-Nitroaniline	93	96	67-125	2	30				
3-Nitroaniline	92	93	59-122	1	30				
4-Nitroaniline	80	83	52-112	3	30				
Nitrobenzene	84	82	72-106	3	30				
2-Nitrophenol	93	91	74-115	4	30				
4-Nitrophenol	68	70	54-113	3	30				
N-Nitroso-di-n-propylamine	83	79	60-116	5	30				
N-Nitrosodimethylamine	71	61	47-116	17	30				

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Quality Control Summary

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Reported: 03/18/11 at 02:13 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodiphenylamine	103	99	86-145	5	30				
Di-n-octylphthalate	86	93	56-126	7	30				
Pentachlorophenol	82	81	28-127	2	30				
Phenanthrene	93	88	65-125	7	30				
Phenol	87	82	58-126	6	30				
Pyrene	101	98	74-126	3	30				
1,2,4-Trichlorobenzene	90	94	72-115	4	30				
2,4,5-Trichlorophenol	102	95	78-109	8	30				
2,4,6-Trichlorophenol	97	101	77-115	3	30				
Batch number: 11056SLB026	Sample number(s): 6213414-6213419,6213421-6213433 UNSPK: 6213417								
Acenaphthene	97	92	63-105	5	30				
Acenaphthylene	94	94	67-114	0	30				
Anthracene	94	104	60-122	9	30				
Benzo(a)anthracene	140*	143*	59-128	1	30				
Benzo(a)pyrene	141*	130	45-138	4	30				
Benzo(b)fluoranthene	133	162*	43-155	9	30				
Benzo(g,h,i)perylene	63	63	33-141	0	30				
Benzo(k)fluoranthene	137	130	42-144	3	30				
Butylbenzylphthalate	1654*	150	57-173	156*	30				
Di-n-butylphthalate	-31*	435*	65-148	102*	30				
Chrysene	127	108	48-134	7	30				
Dibenz(a,h)anthracene	61	56	22-133	7	30				
Diethylphthalate	105	107	70-136	2	30				
Dimethylphthalate	132*	107	74-118	16	30				
Bis(2-Ethylhexyl)phthalate	146	97	39-167	23	30				
Fluoranthene	195*	169*	26-166	8	30				
Fluorene	80	82	66-122	3	30				
Indeno(1,2,3-cd)pyrene	70	70	21-143	0	30				
1-Methylnaphthalene	79	79	72-123	0	30				
2-Methylnaphthalene	72	71	64-103	2	30				
Naphthalene	80	79	61-102	1	30				
N-Nitrosodimethylamine	89	82	48-113	8	30				
Di-n-octylphthalate	142	152	40-192	6	30				
Phenanthrene	96	116	12-165	12	30				
Pyrene	151	117	15-153	14	30				
Batch number: 11057SLB026	Sample number(s): 6213431,6213433 UNSPK: P214502								
N-Nitrosodimethylamine	81	96	70-130	16	30				
Batch number: 11060A34A	Sample number(s): 6213431,6213433 UNSPK: P214502								
9a TPH by EPA 8015B Gas C5-C12	105	108	39-118	4	30				
Batch number: 110600010A	Sample number(s): 6213431,6213433 UNSPK: P214502								
4-Amino-2,6-Dinitrotoluene	113	112	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	113	111	80-137	1	50				
1,3-Dinitrobenzene	112	111	38-166	1	50				
2,4-Dinitrotoluene	107	106	80-131	1	50				
2,6-Dinitrotoluene	109	109	80-127	1	50				
HMX	103	102	63-128	1	50				
Nitrobenzene	108	108	80-125	0	50				
Nitroglycerin	105	104	80-120	1	50				
2-Nitrotoluene	108	107	80-122	1	50				

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Quality Control Summary

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Reported: 03/18/11 at 02:13 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3-Nitrotoluene	106	105	72-119	1	50				
4-Nitrotoluene	104	103	80-125	1	50				
PETN	117	116	80-121	1	50				
RDX	98	97	75-129	1	50				
Tetryl	113	108	55-174	5	50				
1,3,5-Trinitrobenzene	117	115	82-126	1	50				
2,4,6-Trinitrotoluene	114	113	82-130	1	50				
Batch number: 110540024A	Sample number(s): 6213431,6213433 UNSPK: P211475								
17a Formaldehyde by 8315A	103	99	80-120	4	50				
Batch number: 110590031A	Sample number(s): 6213414-6213419,6213421-6213429 UNSPK: 6213417								
2,4-D	94	74	17-180	24	35				
Dalapon	85	38	10-125	77*	50				
2,4-DB	49	65	10-201	29	50				
Dicamba	105	96	10-190	8	50				
Dinoseb	13	6*	10-46	72*	35				
2,4-DP (Dichlorprop)	127	96	33-178	28	50				
MCPA	44	15	10-213	18	50				
MCPP (Mecoprop)	0*	22	10-184	200*	50				
2,4,5-T	48	70	10-156	37*	35				
2,4,5-TP	81	20*	24-141	119*	35				
Batch number: 110600022A	Sample number(s): 6213415,6213426,6213431,6213433 UNSPK: 6213415								
6a Perchlorate EPA 6850	102	102	80-120	0	20				
Batch number: 110560002A	Sample number(s): 6213414-6213419,6213421-6213429 UNSPK: 6213417								
Aldrin	88	97	16-126	10	50				
Alpha BHC	45	52	10-129	13	50				
Beta BHC	41	138	14-147	60*	50				
Gamma BHC - Lindane	67	64	10-140	5	50				
p,p-DDD	76	228*	16-163	100*	50				
p,p-DDE	160	148	18-161	8	50				
p,p-DDT	422*	391*	10-176	8	50				
Delta BHC	88	91	23-140	4	50				
Dieldrin	126	111	19-154	13	50				
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	78	174*	28-154	76*	50				
Endosulfan Sulfate	72	134	21-160	60*	50				
Endrin	0*	0*	11-149	0	50				
Endrin Aldehyde	89	108	10-148	18	35				
Endrin Ketone	82	126	22-165	42	50				
Heptachlor	82	82	13-126	0	50				
Heptachlor Epoxide	118	118	13-157	0	50				
Methoxychlor	74	93	32-147	23	50				
Batch number: 110560019A	Sample number(s): 6213416-6213419,6213421,6213423-6213428,6213430-6213433 UNSPK: 6213417								
PCB-1016	96	107	29-146	11	50				
PCB-1260	92	107	39-149	8	50				
Batch number: 110590024A	Sample number(s): 6213414-6213415,6213422,6213429 UNSPK: P214520								
PCB-1016	99	101	29-146	2	50				

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Reported: 03/18/11 at 02:13 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
PCB-1260	143	202*	39-149	34	50				
Batch number: 110560016A	Sample number(s): 6213431,6213433 UNSPK: P214502								
EFH (C12-C14)	92	119	49-123	27*	20				
EFH (C15-C20)	115	110	49-123	4	20				
EFH (C21-C30)	255*	115	49-123	75*	20				
EFH (C30 - C40)	709*	156*	49-123	127*	20				
EFH (C8-C11)	82	76	49-123	6	20				
Batch number: 110550001A	Sample number(s): 6213431,6213433 UNSPK: P211475								
Diethylene glycol	84	86	59-109	3	20				
Ethylene glycol	87	91	63-107	5	20				
Propylene glycol	85	88	63-107	3	20				
Batch number: 110560023A	Sample number(s): 6213431,6213433 UNSPK: P214502								
Ethanol	78	77	24-143	1	20				
Isopropanol	83	81	75-125	3	20				
Methanol	87	83	45-136	5	20				
Batch number: 110560015A	Sample number(s): 6213431,6213433 UNSPK: P214502								
m-Terphenyl	92	92	75-125	0	20				
o-Terphenyl	92	91	75-125	1	20				
p-Terphenyl	80	80	75-125	0	20				
Batch number: 110561026001A	Sample number(s): 6213414-6213433 UNSPK: 6213417 BKG: 6213417								
Antimony	20*	28*	75-125	22*	20	0.164 J	0.129 J	24* (1)	20
Arsenic	200*	129*	75-125	20	20	3.89	3.66	6	20
Beryllium	109	94	75-125	10	20	0.476	0.405	16 (1)	20
Cadmium	96	103	75-125	5	20	0.464	0.422	9 (1)	20
Chromium	146*	87	75-125	19	20	19.5	16.4	17	20
Cobalt	89	91	75-125	2	20	4.72	4.29	10	20
Copper	85	92	75-125	3	20	11.1	10.3	7	20
Lead	1202*	125	75-125	104*	20	10.9	10.5	4	20
Nickel	86	89	75-125	1	20	10.7	9.18	16	20
Silver	100	100	75-125	0	20	0.159	0.155	3 (1)	20
Thallium	95	96	75-125	1	20	0.230	0.186	21* (1)	20
Vanadium	136*	119	75-125	4	20	30.3	27.0	11	20
Zinc	47 (2)	64 (2)	75-125	2	20	73.7	62.9	16	20
Batch number: 110561026001B	Sample number(s): 6213414-6213433 UNSPK: 6213417 BKG: 6213417								
Selenium	93	95	75-125	2	20	0.117 J	0.0890 J	27* (1)	20
Batch number: 110561026001C	Sample number(s): 6213414-6213433 UNSPK: 6213417 BKG: 6213417								
Molybdenum	95	96	75-125	1	20	0.412	0.398	4 (1)	20
Batch number: 110561026001D	Sample number(s): 6213414-6213433 UNSPK: 6213417 BKG: 6213417								
Barium	155 (2)	149 (2)	75-125	1	20	86.2	75.9	13	20
Batch number: 110565708004	Sample number(s): 6213414-6213433 UNSPK: 6213417 BKG: 6213417								
Aluminum	557 (2)	677 (2)	75-125	2	20	13,300	13,400	1	20
Boron	97	99	84-115	2	20	2.81 J	2.64 J	6 (1)	20
Calcium	161 (2)	69 (2)	75-125	9	20	3,770	4,220	11	20
Iron	517 (2)	-1387	75-125	11	20	17,900	17,600	2	20

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC (2)	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Magnesium	32 (2)	-76 (2)	75-125	5	20	4,180	3,830	9	20
Manganese	7 (2)	37 (2)	75-125	5	20	268	239	11	20
Potassium	101	96	75-125	1	20	2,600	2,590	1	20
Sodium	99	101	75-125	1	20	87.0 J	93.0 J	7 (1)	20
Strontium	99	108	75-115	7	20	19.9	23.6	17	20
Tin	87	88	80-110	1	20	3.26 J	3.03 J	7 (1)	20
Titanium	137 (2)	139 (2)	75-125	0	20	936	903	4	20
Batch number: 110565711003	Sample number(s): 6213414-6213433 UNSPK: 6213417 BKG: 6213417								
Mercury	107	108	65-135	0	20	0.0511 J	0.0519 J	2 (1)	20
Batch number: 110635708002	Sample number(s): 6213414-6213433 UNSPK: 6213417 BKG: 6213417								
Lithium	108	109	82-114	0	20	16.6	19.6	16	20
Phosphorus	288*	106	75-125	32*	20	376	413	9	20
Zirconium	96	95	75-125	2	20	3.79 J	4.70 J	21* (1)	20
Batch number: 11060199202A	Sample number(s): 6213414-6213418,6213420-6213426 UNSPK: 6213417 BKG: 6213417								
11a Anions by 300.0 - Fluoride	57*		80-120			1.2	0.98 J	16 (1)	20
Batch number: 11060199202B	Sample number(s): 6213427-6213433 UNSPK: 6213427 BKG: 6213427								
11a Anions by 300.0 - Fluoride	66*		80-120			3.1	3.6	14 (1)	20
11a Anions by 300.0 - Nitrate	84		80-120			1.4 J	1.6	11 (1)	20
Batch number: 11063102201A	Sample number(s): 6213431,6213433 UNSPK: P214502 BKG: P214502								
21a Cyanide by 9012B	105		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11063243201A	Sample number(s): 6213414-6213418,6213420-6213433 UNSPK: 6213417 BKG: 6213417								
3a Cr VI by EPA 7199	92		75-125			0.36 J	0.45 J	22* (1)	20
Batch number: 11063621201A	Sample number(s): 6213414-6213418,6213420-6213426 UNSPK: 6213417 BKG: 6213417								
7a Perchlorate EPA 314.0	112		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11063621201B	Sample number(s): 6213427-6213433 UNSPK: 6213427 BKG: 6213427								
7a Perchlorate EPA 314.0	87		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11055039401A	Sample number(s): 6213414-6213417,6213420-6213425 BKG: 6213417								
22a pH by 9045C						7.85	7.83	0	1
Batch number: 11055039401B	Sample number(s): 6213426-6213433 BKG: 6213426								
22a pH by 9045C						7.74	7.78	1	1
Batch number: 11055182101A	Sample number(s): 6213414-6213417,6213420-6213425 BKG: 6213417								
32a OR Potential						338	341	1	6
Batch number: 11055182101B	Sample number(s): 6213426-6213433 BKG: 6213426								
32a OR Potential						306	328	7*	6
Batch number: 11062162402A	Sample number(s): 6213414-6213426 BKG: 6213417								
28a Moisture Content by 160.3						14.2	13.8	3	20
28a Moisture Content by 160.3						14.2	13.8	3	20
28a Moisture Content by 160.3						14.2	13.8	3	20

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Quality Control Summary

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Reported: 03/18/11 at 02:13 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11062162402B	Sample number(s): 6213427-6213430,6213432 BKG: 6213427								
28a Moisture Content by 160.3						12.3	13.0	5	20
Batch number: 11069162401A	Sample number(s): 6213431,6213433 BKG: P214502								
28a Moisture Content by 160.3						6.2	6.6	6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110561AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6213430	98	97	98	93
6213431	97	97	99	93
6213432	98	100	99	94
6213433	96	96	100	94
Blank	101	106	97	96
LCS	101	104	100	98
MS	99	102	100	98
MSD	99	101	100	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110551AA

	Toluene-d8
6213434	97
Blank	97
LCS	100
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110561AA

	Toluene-d8
6213430	97
6213431	97
6213432	98
6213433	98
Blank	99
LCS	98
LCSD	97
MS	98
MSD	97

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Quality Control Summary

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Reported: 03/18/11 at 02:13 PM

Surrogate Quality Control

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110591AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6213434	102	101	103	101
Blank	102	100	102	100
LCS	103	103	102	100
LCSD	103	103	103	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11055SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6213414	84	89	93	85	95	92
6213415	71	76	72	70	80	68
6213416	83	88	83	84	94	87
6213417	86	89	100	80	102	90
6213418	83	88	83	78	90	88
6213419	79	85	89	80	91	91
6213421	78	84	84	82	87	82
6213422	82	88	93	83	94	83
6213423	77	83	100	79	94	87
6213424	77	82	98	78	89	86
6213425	79	82	87	82	91	86
6213426	77	82	74	80	87	82
6213427	79	84	85	78	98	74
6213428	75	82	78	74	83	70
6213429	74	79	84	72	77	83
6213430	77	82	76	75	91	84
6213431	69	74	72	69	84	74
6213432	73	78	79	74	84	91
6213433	83	87	91	78	89	86
Blank	77	82	89	79	91	86
LCS	78	81	96	76	84	83
MS	83	88	83	78	90	88
MSD	79	85	89	80	91	91
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11056SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6213414	99	98	83
6213415	125	86	90
6213416	98	85	84
6213417	96	96	74
6213418	100	88	79
6213419	97	83	75
6213421	98	82	78
6213422	102	105	80
6213423	97	81	91

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234297
Reported: 03/18/11 at 02:13 PM

Surrogate Quality Control

6213424	115	84	71
6213425	95	85	77
6213426	104	86	79
6213427	102	88	82
6213428	109	79	122
6213429	94	81	128
6213430	87	78	99
6213431	87	79	99
6213432	92	84	105
6213433	90	81	102
Blank	90	85	102
LCS	87	80	100
MS	100	88	79
MSD	97	83	75
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11057SLB026

	N-Nitrosodimethylamine-d6
6213431	78
6213433	69
Blank	81
LCS	85
MS	78
MSD	83
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11059B20A

	Trifluorotoluene-F
6213434	83
Blank	83
LCS	115
LCSD	113
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11060A34A

	Trifluorotoluene-F
6213431	108
6213433	106
Blank	83
LCS	88
MS	109
MSD	107
Limits:	61-122

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110540024A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234297
Reported: 03/18/11 at 02:13 PM

Surrogate Quality Control

	Butyraldehyde
6213431	96
6213433	104
Blank	85
LCS	105
MS	101
MSD	93
Limits:	64-126

Analysis Name: 12a Pesticides by 8081A
Batch number: 110560002A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6213414	60	71
6213415	70	676*
6213416	51	91
6213417	56	81
6213418	57	66
6213419	65	213*
6213421	61	69
6213422	149*	29
6213423	71	89
6213424	56	122*
6213425	52	69
6213426	59	50
6213427	54	78
6213428	63	23
6213429	63	28
Blank	49*	93
LCS	81	117
MS	57	66
MSD	65	213*
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110560019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6213416	121	103
6213417	99	117
6213418	88	97
6213419	102	119
6213421	147*	142*
6213423	178*	116
6213424	36*	40*
6213425	113	84
6213426	106	83
6213427	100	91
6213428	113	139*
6213430	94	86
6213431	134	129*
6213432	157*	162*
6213433	133	137*
Blank	127	137*

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234297
Reported: 03/18/11 at 02:13 PM

Surrogate Quality Control

LCS	136	148*
LCSD	115	135*
MS	88	97
MSD	102	119
Limits:	53-139	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110590024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6213414	91	158*
6213415	87	123*
6213422	93	94
6213429	95	89
Blank	80	95
LCS	87	97
LCSD	82	90
MS	87	155*
MSD	79	374*
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110590031A

	2,4-Dichlorophenylacetic acid
6213414	98
6213415	44
6213416	85
6213417	114
6213418	103
6213419	100
6213421	82
6213422	53
6213423	95
6213424	83
6213425	83
6213426	90
6213427	84
6213428	77
6213429	84
Blank	53
LCS	92
MS	103
MSD	100
Limits:	36-156

Analysis Name: 20a Energetics by 8330A
Batch number: 110600010A

	2-Nitro-m-xylene
6213431	130
6213433	120
Blank	121

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234297
Reported: 03/18/11 at 02:13 PM

Surrogate Quality Control

LCS	114
LCSD	108
MS	126
MSD	116
Limits:	80-146

Analysis Name: 27a Glycols by 8015B
Batch number: 110550001A

	Tetramethylene glycol
6213431	50
6213433	37
Blank	100
LCS	98
MS	89
MSD	87
Limits:	29-137

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110560015A

	n-Triacontane-d62
6213431	79
6213433	75
Blank	84
LCS	80
MS	72
MSD	75
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110560016A

	Chlorobenzene	Orthoterphenyl
6213431	71	90
6213433	74	91
Blank	66	96
LCS	79	101
MS	74	95
MSD	68	91
Limits:	37-125	47-145

Analysis Name: 25a Alcohols by 8015B
Batch number: 110560023A

	Acetone
6213431	92
6213433	88
Blank	100
LCS	100
MS	88
MSD	84

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234297
Reported: 03/18/11 at 02:13 PM

Surrogate Quality Control

Limits: 42-138

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1234297 Sample# 6213414-34

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								SS ONLY		
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on split in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures: Carl A. Pells						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers											
DUP-02-SA5A-QC-022211	2.22.2011	1010	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
DUP-02-SA5A-QC-022211	2.22.2011	1010	SOIL	NONE	1-6 inch sleeve			X	X							
SL-175-SA5A-SS-0.0-0.3	2.22.2011	0952	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	Refusal at 3 to 4 inches
SL-175-SA5A-SS-0.0-0.3	2.22.2011	0952	SOIL	NONE	1-6 inch sleeve			X	X							Refusal at 3 to 4 inches
SL-180-SA5A-SS-0.0-0.5	2.22.2011	1035	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-180-SA5A-SS-0.0-0.5	2.22.2011	1035	SOIL	NONE	1-6 inch sleeve			X	X							
SL-181-SA5A-SS-0.0-0.5MS	2.22.2011	1010	SOIL	NONE	2-16 oz jars	X	X			X	X	X		X	X	MS/MSD sample
SL-181-SA5A-SS-0.0-0.5MS	2.22.2011	1010	SOIL	NONE	2-6 inch sleeves			X	X							MS/MSD sample
SL-196-SA5A-SS-0.0-0.5	2.22.2011	0840	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-196-SA5A-SS-0.0-0.5	2.22.2011	0840	SOIL	NONE	1-6 inch sleeve			X	X							
SL-197-SA5A-SS-0.0-0.5	2.22.2011	0908	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-197-SA5A-SS-0.0-0.5	2.22.2011	0908	SOIL	NONE	1-6 inch sleeve			X	X							
SL-210-SA5A-SS-0.0-0.5	2.22.2011	1313	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-210-SA5A-SS-0.0-0.5	2.22.2011	1313	SOIL	NONE	1-6 inch sleeve			X	X							
SL-211-SA5A-SS-0.0-0.5	2.22.2011	1336	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-211-SA5A-SS-0.0-0.5	2.22.2011	1336	SOIL	NONE	1-6 inch sleeve			X	X							
SL-212-SA5A-SS-0.0-0.5	2.22.2011	1414	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-212-SA5A-SS-0.0-0.5	2.22.2011	1414	SOIL	NONE	1-6 inch sleeve			X	X							
SL-214-SA5A-SS-0.0-0.5	2.22.2011	1228	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-214-SA5A-SS-0.0-0.5	2.22.2011	1228	SOIL	NONE	1-6 inch sleeve			X	X							
SL-215-SA5A-SS-0.0-0.5	2.22.2011	1255	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-215-SA5A-SS-0.0-0.5	2.22.2011	1255	SOIL	NONE	1-6 inch sleeve			X	X							
SL-217-SA5A-SS-0.0-0.5	2.22.2011	1446	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-217-SA5A-SS-0.0-0.5	2.22.2011	1446	SOIL	NONE	1-6 inch sleeve			X	X							
SL-218-SA5A-SS-0.0-0.5	2.22.2011	1510	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-218-SA5A-SS-0.0-0.5	2.22.2011	1510	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		Laboratory:
Carl A. Pells	02/22/2011 / 17:00	Katie Hawthorne	2/23/11 10:10	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**		
Katie Hawthorne	2/23/11 10:10	8695 1432 3210; 8695 1432 3221		No. of coolers = 2

acct#13013 Gp# 1234297 sample# 6213414-34

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-024-SA5A-SB-2.5-3.5	2.22.2011	1235	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-024-SA5A-SB-3.0	2.22.2011	1229	SOIL	NONE	4-Encores									X	X												
SL-026-SA5A-SB-3.5-4.5	2.22.2011	1119	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-026-SA5A-SB-4.0	2.22.2011	1115	SOIL	NONE	5-Encores									X	X	X											
SL-031-SA5A-SB-4.0-5.0	2.22.2011	0904	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-031-SA5A-SB-4.5	2.22.2011	0900	SOIL	NONE	4-Encores									X	X												
SL-035-SA5A-SB-4.0-5.0	2.22.2011	1615	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-035-SA5A-SB-4.5	2.22.2011	1621	SOIL	NONE	5-Encores									X	X	X											
TB-022211	2.22.2011	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	02/22/2011 / 17:00	Katie Hartline 2/23/11 10:10	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	No. of coolers = 2
		8695 1432 3210; 8695 1432 3221	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 23, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/23/2011
Group Number: 1234301
SDG: DX054
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-02-SA5A-QC-022211 Soil	6213450
SL-175-SA5A-SS-0.0-0.3 Soil	6213451
SL-180-SA5A-SS-0.0-0.5 Soil	6213452
SL-181-SA5A-SS-0.0-0.5 Soil	6213453
SL-181-SA5A-SS-0.0-0.5MS Soil	6213454
SL-181-SA5A-SS-0.0-0.5MSD Soil	6213455
SL-196-SA5A-SS-0.0-0.5 Soil	6213456
SL-197-SA5A-SS-0.0-0.5 Soil	6213457
SL-210-SA5A-SS-0.0-0.5 Soil	6213458
SL-211-SA5A-SS-0.0-0.5 Soil	6213459
SL-212-SA5A-SS-0.0-0.5 Soil	6213460
SL-214-SA5A-SS-0.0-0.5 Soil	6213461
SL-215-SA5A-SS-0.0-0.5 Soil	6213462
SL-217-SA5A-SS-0.0-0.5 Soil	6213463
SL-218-SA5A-SS-0.0-0.5 Soil	6213464
SL-024-SA5A-SB-2.5-3.5 Soil	6213465
SL-026-SA5A-SB-3.5-4.5 Soil	6213466
SL-031-SA5A-SB-4.0-5.0 Soil	6213467
SL-035-SA5A-SB-4.0-5.0 Soil	6213468

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

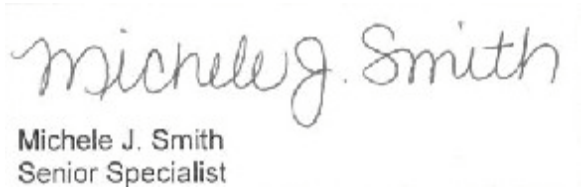
Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **DUP-02-SA5A-QC-022211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5A-QC-022211

LLI Sample # SW 6213450
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5401 SDG#: DX054-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-02-SA5A-QC-022211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5A-QC-022211

LLI Sample # SW 6213450
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5401 SDG#: DX054-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.104	J	0.0174	1.15	1
11031	12378-PeCDD	40321-76-4	0.549	JBQ	0.0517	5.75	1
11031	123478-HxCDD	39227-28-6	0.722	JBQ	0.0738	5.75	1
11031	123678-HxCDD	57653-85-7	6.72	B	0.0740	5.75	1
11031	123789-HxCDD	19408-74-3	2.81	JB	0.0667	5.75	1
11031	1234678-HpCDD	35822-46-9	130	B	0.0869	5.75	1
11031	OCDD	3268-87-9	1,280	B	0.0900	11.5	1
11031	2378-TCDF	51207-31-9	1.06	JB	0.0872	1.15	1
11031	12378-PeCDF	57117-41-6	0.741	JB	0.0318	5.75	1
11031	23478-PeCDF	57117-31-4	1.42	JB	0.0323	5.75	1
11031	123478-HxCDF	70648-26-9	2.01	JB	0.0480	5.75	1
11031	123678-HxCDF	57117-44-9	1.06	JB	0.0423	5.75	1
11031	123789-HxCDF	72918-21-9	0.560	JB	0.0402	5.75	1
11031	234678-HxCDF	60851-34-5	1.13	JB	0.0387	5.75	1
11031	1234678-HpCDF	67562-39-4	16.1	B	0.0344	5.75	1
11031	1234789-HpCDF	55673-89-7	1.21	JB	0.0421	5.75	1
11031	OCDF	39001-02-0	39.5	B	0.0321	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-02-SA5A-QC-022211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5A-QC-022211

LLI Sample # SW 6213450
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5401 SDG#: DX054-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-02-SA5A-QC-022211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5A-QC-022211

LLI Sample # SW 6213450
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5401 SDG#: DX054-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11073001	03/17/2011 14:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11073001	03/14/2011 13:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5A-SS-0.0-0.3

LLI Sample # SW 6213451
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:52

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5402 SDG#: DX054-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-175-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5A-SS-0.0-0.3

LLI Sample # SW 6213451
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:52

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5402 SDG#: DX054-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.133	JQ	0.109	1.14	1
11031	12378-PeCDD	40321-76-4	0.833	JQ	0.157	5.72	1
11031	123478-HxCDD	39227-28-6	1.86	JBQ	0.378	5.72	1
11031	123678-HxCDD	57653-85-7	4.37	JB	0.395	5.72	1
11031	123789-HxCDD	19408-74-3	3.46	JB	0.274	5.72	1
11031	1234678-HpCDD	35822-46-9	157	B	0.990	5.72	1
11031	OCDD	3268-87-9	1,800	B	1.76	11.4	1
11031	2378-TCDF	51207-31-9	1.59	B	0.193	1.14	1
11650	2378-TCDF-Conf	51207-31-9	3.37	B	0.230	1.14	1
11031	12378-PeCDF	57117-41-6	0.441	JBQ	0.116	5.72	1
11031	23478-PeCDF	57117-31-4	1.11	JBQ	0.134	5.72	1
11031	123478-HxCDF	70648-26-9	1.63	J	0.383	5.72	1
11031	123678-HxCDF	57117-44-9	1.53	JB	0.313	5.72	1
11031	123789-HxCDF	72918-21-9	0.375	JBQ	0.141	5.72	1
11031	234678-HxCDF	60851-34-5	1.11	JB	0.145	5.72	1
11031	1234678-HpCDF	67562-39-4	14.7	B	0.687	5.72	1
11031	1234789-HpCDF	55673-89-7	1.52	JB	0.351	5.72	1
11031	OCDF	39001-02-0	128	B	0.723	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-2378-TCDF-Conf	78	24 - 169
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	46	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	48	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	32	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	31	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	70	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5A-SS-0.0-0.3

LLI Sample # SW 6213451
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:52

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5402 SDG#: DX054-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5A-SS-0.0-0.3

LLI Sample # SW 6213451
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:52

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5402 SDG#: DX054-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/07/2011 20:15	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11061003	03/16/2011 15:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SS-0.0-0.5

LLI Sample # SW 6213452
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:35

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5403 SDG#: DX054-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-180-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SS-0.0-0.5

LLI Sample # SW 6213452
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:35

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5403 SDG#: DX054-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.103	U	0.103	1.15	1
11031	12378-PeCDD	40321-76-4	0.485	JQ	0.166	5.77	1
11031	123478-HxCDD	39227-28-6	0.439	JB	0.246	5.77	1
11031	123678-HxCDD	57653-85-7	3.70	JB	0.240	5.77	1
11031	123789-HxCDD	19408-74-3	1.88	JB	0.221	5.77	1
11031	1234678-HpCDD	35822-46-9	69.9	B	0.267	5.77	1
11031	OCDD	3268-87-9	704	B	0.250	11.5	1
11031	2378-TCDF	51207-31-9	0.226	U	0.226	1.15	1
11031	12378-PeCDF	57117-41-6	0.167	JBQ	0.115	5.77	1
11031	23478-PeCDF	57117-31-4	0.624	JBQ	0.111	5.77	1
11031	123478-HxCDF	70648-26-9	1.73	JQ	0.238	5.77	1
11031	123678-HxCDF	57117-44-9	0.584	JBQ	0.169	5.77	1
11031	123789-HxCDF	72918-21-9	0.699	JBQ	0.134	5.77	1
11031	234678-HxCDF	60851-34-5	0.645	JBQ	0.114	5.77	1
11031	1234678-HpCDF	67562-39-4	8.37	B	0.233	5.77	1
11031	1234789-HpCDF	55673-89-7	0.890	JB	0.180	5.77	1
11031	OCDF	39001-02-0	22.0	B	0.233	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-180-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SS-0.0-0.5

LLI Sample # SW 6213452
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:35

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5403 SDG#: DX054-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SS-0.0-0.5

LLI Sample # SW 6213452
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:35

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5403 SDG#: DX054-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/07/2011 21:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213453
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX054-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-181-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213453
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX054-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0990	J	0.0362	1.17	1
11031	12378-PeCDD	40321-76-4	0.642	JQ	0.0648	5.83	1
11031	123478-HxCDD	39227-28-6	1.52	JB	0.114	5.83	1
11031	123678-HxCDD	57653-85-7	5.39	JB	0.114	5.83	1
11031	123789-HxCDD	19408-74-3	2.51	JB	0.106	5.83	1
11031	1234678-HpCDD	35822-46-9	123	B	0.136	5.83	1
11031	OCDD	3268-87-9	1,300	B	0.102	11.7	1
11031	2378-TCDF	51207-31-9	1.35	B	0.184	1.17	1
11650	2378-TCDF-Conf	51207-31-9	0.517	JB	0.0638	1.17	1
11031	12378-PeCDF	57117-41-6	0.343	JB	0.0615	5.83	1
11031	23478-PeCDF	57117-31-4	1.60	JB	0.0593	5.83	1
11031	123478-HxCDF	70648-26-9	2.42	J	0.118	5.83	1
11031	123678-HxCDF	57117-44-9	1.74	JB	0.0838	5.83	1
11031	123789-HxCDF	72918-21-9	0.592	JB	0.0758	5.83	1
11031	234678-HxCDF	60851-34-5	1.42	JB	0.0650	5.83	1
11031	1234678-HpCDF	67562-39-4	18.3	B	0.0814	5.83	1
11031	1234789-HpCDF	55673-89-7	1.30	JB	0.0754	5.83	1
11031	OCDF	39001-02-0	41.6	B	0.0537	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-2378-TCDF-Conf	74	24 - 169
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213453
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX054-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213453
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX054-04BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/07/2011 22:08	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11061003	03/16/2011 17:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213454
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX054-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-181-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213454
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX054-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.6		0.248	1.17	1
11031	12378-PeCDD	40321-76-4	121		0.248	5.83	1
11031	123478-HxCDD	39227-28-6	124	B	0.416	5.83	1
11031	123678-HxCDD	57653-85-7	131	B	0.418	5.83	1
11031	123789-HxCDD	19408-74-3	123	B	0.378	5.83	1
11031	1234678-HpCDD	35822-46-9	236	B	0.434	5.83	1
11031	OCDD	3268-87-9	1,450	B	0.378	11.7	1
11031	2378-TCDF	51207-31-9	25.3	B	0.438	1.17	1
11031	12378-PeCDF	57117-41-6	121	B	0.191	5.83	1
11031	23478-PeCDF	57117-31-4	122	B	0.198	5.83	1
11031	123478-HxCDF	70648-26-9	123		0.368	5.83	1
11031	123678-HxCDF	57117-44-9	124	B	0.283	5.83	1
11031	123789-HxCDF	72918-21-9	123	B	0.268	5.83	1
11031	234678-HxCDF	60851-34-5	123	B	0.227	5.83	1
11031	1234678-HpCDF	67562-39-4	127	B	0.321	5.83	1
11031	1234789-HpCDF	55673-89-7	110	B	0.320	5.83	1
11031	OCDF	39001-02-0	273	B	0.293	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213454
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX054-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213454
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX054-04MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/07/2011 23:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213455
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX054-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-181-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213455
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X5404 SDG#: DX054-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.1		0.0420	1.17	1
11031	12378-PeCDD	40321-76-4	124		0.0536	5.83	1
11031	123478-HxCDD	39227-28-6	122	B	0.136	5.83	1
11031	123678-HxCDD	57653-85-7	127	B	0.122	5.83	1
11031	123789-HxCDD	19408-74-3	124	B	0.101	5.83	1
11031	1234678-HpCDD	35822-46-9	225	B	0.0988	5.83	1
11031	OCDD	3268-87-9	1,340	B	0.0536	11.7	1
11031	2378-TCDF	51207-31-9	24.6	B	0.152	1.17	1
11031	12378-PeCDF	57117-41-6	121	B	0.0610	5.83	1
11031	23478-PeCDF	57117-31-4	123	B	0.0645	5.83	1
11031	123478-HxCDF	70648-26-9	123		0.128	5.83	1
11031	123678-HxCDF	57117-44-9	120	B	0.0869	5.83	1
11031	123789-HxCDF	72918-21-9	118	B	0.0537	5.83	1
11031	234678-HxCDF	60851-34-5	123	B	0.0501	5.83	1
11031	1234678-HpCDF	67562-39-4	134	B	0.105	5.83	1
11031	1234789-HpCDF	55673-89-7	117	B	0.0632	5.83	1
11031	OCDF	39001-02-0	264	B	0.0490	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-181-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213455
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX054-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-181-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SS-0.0-0.5

LLI Sample # SW 6213455
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 10:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX054-04MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 00:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-196-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5A-SS-0.0-0.5

LLI Sample # SW 6213456
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 08:40

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5405 SDG#: DX054-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-196-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5A-SS-0.0-0.5

LLI Sample # SW 6213456
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 08:40

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5405 SDG#: DX054-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0582	J	0.0270	1.12	1
11031	12378-PeCDD	40321-76-4	0.288	J	0.0309	5.60	1
11031	123478-HxCDD	39227-28-6	0.518	JB	0.0587	5.60	1
11031	123678-HxCDD	57653-85-7	1.30	JB	0.0598	5.60	1
11031	123789-HxCDD	19408-74-3	1.08	JB	0.0574	5.60	1
11031	1234678-HpCDD	35822-46-9	39.9	B	0.0782	5.60	1
11031	OCDD	3268-87-9	562	B	0.0677	11.2	1
11031	2378-TCDF	51207-31-9	0.122	JB	0.0538	1.12	1
11031	12378-PeCDF	57117-41-6	0.187	JB	0.0420	5.60	1
11031	23478-PeCDF	57117-31-4	0.942	JB	0.0398	5.60	1
11031	123478-HxCDF	70648-26-9	1.06	J	0.0797	5.60	1
11031	123678-HxCDF	57117-44-9	0.409	JB	0.0606	5.60	1
11031	123789-HxCDF	72918-21-9	0.330	JB	0.0541	5.60	1
11031	234678-HxCDF	60851-34-5	0.460	JB	0.0468	5.60	1
11031	1234678-HpCDF	67562-39-4	5.76	B	0.0489	5.60	1
11031	1234789-HpCDF	55673-89-7	0.570	JB	0.0434	5.60	1
11031	OCDF	39001-02-0	27.0	B	0.0452	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-196-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5A-SS-0.0-0.5

LLI Sample # SW 6213456
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 08:40

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5405 SDG#: DX054-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-196-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5A-SS-0.0-0.5

LLI Sample # SW 6213456
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 08:40

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5405 SDG#: DX054-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 00:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-197-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SS-0.0-0.5

LLI Sample # SW 6213457
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:08

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5406 SDG#: DX054-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-197-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SS-0.0-0.5

LLI Sample # SW 6213457
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:08

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5406 SDG#: DX054-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.479	J	0.0443	1.19	1
11031	12378-PeCDD	40321-76-4	0.699	J	0.0667	5.95	1
11031	123478-HxCDD	39227-28-6	0.465	JB	0.0848	5.95	1
11031	123678-HxCDD	57653-85-7	1.55	JB	0.0802	5.95	1
11031	123789-HxCDD	19408-74-3	1.37	JB	0.0705	5.95	1
11031	1234678-HpCDD	35822-46-9	31.0	B	0.0627	5.95	1
11031	OCDD	3268-87-9	456	B	0.0627	11.9	1
11031	2378-TCDF	51207-31-9	0.282	JB	0.0506	1.19	1
11031	12378-PeCDF	57117-41-6	0.258	JBQ	0.0319	5.95	1
11031	23478-PeCDF	57117-31-4	0.636	JB	0.0314	5.95	1
11031	123478-HxCDF	70648-26-9	0.638	J	0.0869	5.95	1
11031	123678-HxCDF	57117-44-9	0.393	JBQ	0.0648	5.95	1
11031	123789-HxCDF	72918-21-9	0.408	JB	0.0430	5.95	1
11031	234678-HxCDF	60851-34-5	0.513	JB	0.0400	5.95	1
11031	1234678-HpCDF	67562-39-4	4.45	JB	0.0467	5.95	1
11031	1234789-HpCDF	55673-89-7	0.355	JB	0.0335	5.95	1
11031	OCDF	39001-02-0	10.8	JB	0.0565	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	49	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-197-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SS-0.0-0.5

LLI Sample # SW 6213457
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:08

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5406 SDG#: DX054-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-197-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SS-0.0-0.5

LLI Sample # SW 6213457
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:08

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5406 SDG#: DX054-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 01:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-210-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5A-SS-0.0-0.5

LLI Sample # SW 6213458
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:13

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5407 SDG#: DX054-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-210-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5A-SS-0.0-0.5

LLI Sample # SW 6213458
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:13

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5407 SDG#: DX054-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0859	JQ	0.0241	1.08	1
11031	12378-PeCDD	40321-76-4	0.186	J	0.0255	5.41	1
11031	123478-HxCDD	39227-28-6	0.195	JB	0.0502	5.41	1
11031	123678-HxCDD	57653-85-7	0.601	JB	0.0490	5.41	1
11031	123789-HxCDD	19408-74-3	0.573	JB	0.0474	5.41	1
11031	1234678-HpCDD	35822-46-9	15.5	B	0.0442	5.41	1
11031	OCDD	3268-87-9	198	B	0.0436	10.8	1
11031	2378-TCDF	51207-31-9	0.0803	JBQ	0.0332	1.08	1
11031	12378-PeCDF	57117-41-6	0.187	JBQ	0.0234	5.41	1
11031	23478-PeCDF	57117-31-4	0.436	JB	0.0225	5.41	1
11031	123478-HxCDF	70648-26-9	0.673	J	0.0682	5.41	1
11031	123678-HxCDF	57117-44-9	0.465	JB	0.0509	5.41	1
11031	123789-HxCDF	72918-21-9	0.283	JB	0.0381	5.41	1
11031	234678-HxCDF	60851-34-5	0.360	JB	0.0342	5.41	1
11031	1234678-HpCDF	67562-39-4	3.40	JB	0.0327	5.41	1
11031	1234789-HpCDF	55673-89-7	0.242	JB	0.0261	5.41	1
11031	OCDF	39001-02-0	5.17	JB	0.0313	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-210-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5A-SS-0.0-0.5

LLI Sample # SW 6213458
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:13

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5407 SDG#: DX054-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-210-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5A-SS-0.0-0.5

LLI Sample # SW 6213458
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:13

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5407 SDG#: DX054-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 05:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-211-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SS-0.0-0.5

LLI Sample # SW 6213459
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:36

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5408 SDG#: DX054-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SS-0.0-0.5

LLI Sample # SW 6213459
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:36

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5408 SDG#: DX054-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0304	JQ	0.0203	1.10	1
11031	12378-PeCDD	40321-76-4	0.116	JQ	0.0204	5.49	1
11031	123478-HxCDD	39227-28-6	0.135	JBQ	0.0498	5.49	1
11031	123678-HxCDD	57653-85-7	0.472	JB	0.0457	5.49	1
11031	123789-HxCDD	19408-74-3	0.349	JB	0.0364	5.49	1
11031	1234678-HpCDD	35822-46-9	12.8	B	0.0390	5.49	1
11031	OCDD	3268-87-9	154	B	0.0476	11.0	1
11031	2378-TCDF	51207-31-9	0.0221	U	0.0221	1.10	1
11031	12378-PeCDF	57117-41-6	0.0663	JBQ	0.0143	5.49	1
11031	23478-PeCDF	57117-31-4	0.255	JBQ	0.0147	5.49	1
11031	123478-HxCDF	70648-26-9	0.189	JQ	0.0413	5.49	1
11031	123678-HxCDF	57117-44-9	0.170	JB	0.0308	5.49	1
11031	123789-HxCDF	72918-21-9	0.153	JBQ	0.0193	5.49	1
11031	234678-HxCDF	60851-34-5	0.170	JB	0.0175	5.49	1
11031	1234678-HpCDF	67562-39-4	1.71	JB	0.0326	5.49	1
11031	1234789-HpCDF	55673-89-7	0.148	JB	0.0226	5.49	1
11031	OCDF	39001-02-0	3.65	JB	0.0402	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	36	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

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Analysis Report

Sample Description: **SL-211-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SS-0.0-0.5

LLI Sample # SW 6213459
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:36

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5408 SDG#: DX054-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-211-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SS-0.0-0.5

LLI Sample # SW 6213459
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 13:36

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5408 SDG#: DX054-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 06:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-212-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-212-SA5A-SS-0.0-0.5

LLI Sample # SW 6213460
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:14

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5409 SDG#: DX054-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-212-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-212-SA5A-SS-0.0-0.5

LLI Sample # SW 6213460
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:14

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5409 SDG#: DX054-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0275	U	0.0275	1.17	1
11031	12378-PeCDD	40321-76-4	0.149	J	0.0323	5.85	1
11031	123478-HxCDD	39227-28-6	0.0718	JB	0.0406	5.85	1
11031	123678-HxCDD	57653-85-7	0.177	JB	0.0374	5.85	1
11031	123789-HxCDD	19408-74-3	0.125	JBQ	0.0311	5.85	1
11031	1234678-HpCDD	35822-46-9	2.38	JB	0.0447	5.85	1
11031	OCDD	3268-87-9	23.2	B	0.0420	11.7	1
11031	2378-TCDF	51207-31-9	0.0455	JBQ	0.0344	1.17	1
11031	12378-PeCDF	57117-41-6	0.0345	JBQ	0.0216	5.85	1
11031	23478-PeCDF	57117-31-4	0.501	JB	0.0237	5.85	1
11031	123478-HxCDF	70648-26-9	0.283	J	0.0643	5.85	1
11031	123678-HxCDF	57117-44-9	0.148	JBQ	0.0434	5.85	1
11031	123789-HxCDF	72918-21-9	0.0963	JB	0.0323	5.85	1
11031	234678-HxCDF	60851-34-5	0.216	JB	0.0267	5.85	1
11031	1234678-HpCDF	67562-39-4	0.469	JB	0.0423	5.85	1
11031	1234789-HpCDF	55673-89-7	0.0991	JB	0.0339	5.85	1
11031	OCDF	39001-02-0	0.904	JB	0.0643	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	33	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	47	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-212-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-212-SA5A-SS-0.0-0.5

LLI Sample # SW 6213460
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:14

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5409 SDG#: DX054-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-212-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-212-SA5A-SS-0.0-0.5

LLI Sample # SW 6213460
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:14

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5409 SDG#: DX054-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 07:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-214-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SS-0.0-0.5

LLI Sample # SW 6213461
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:28

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5410 SDG#: DX054-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-214-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SS-0.0-0.5

LLI Sample # SW 6213461
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:28

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5410 SDG#: DX054-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0217	U	0.0217	1.10	1
11031	12378-PeCDD	40321-76-4	0.0217	U	0.0217	5.52	1
11031	123478-HxCDD	39227-28-6	0.0501	JB	0.0365	5.52	1
11031	123678-HxCDD	57653-85-7	0.272	JB	0.0341	5.52	1
11031	123789-HxCDD	19408-74-3	0.331	JB	0.0288	5.52	1
11031	1234678-HpCDD	35822-46-9	3.80	JB	0.0344	5.52	1
11031	OCDD	3268-87-9	38.2	B	0.0462	11.0	1
11031	2378-TCDF	51207-31-9	0.0230	U	0.0230	1.10	1
11031	12378-PeCDF	57117-41-6	0.0229	JBQ	0.0145	5.52	1
11031	23478-PeCDF	57117-31-4	0.130	JBQ	0.0143	5.52	1
11031	123478-HxCDF	70648-26-9	0.0877	JQ	0.0344	5.52	1
11031	123678-HxCDF	57117-44-9	0.0840	JBQ	0.0248	5.52	1
11031	123789-HxCDF	72918-21-9	0.0812	JB	0.0155	5.52	1
11031	234678-HxCDF	60851-34-5	0.0536	JB	0.0141	5.52	1
11031	1234678-HpCDF	67562-39-4	0.625	JB	0.0395	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0695	JB	0.0263	5.52	1
11031	OCDF	39001-02-0	3.34	JB	0.0485	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-214-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SS-0.0-0.5

LLI Sample # SW 6213461
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:28

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5410 SDG#: DX054-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-214-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SS-0.0-0.5

LLI Sample # SW 6213461
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:28

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5410 SDG#: DX054-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 08:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402A	03/03/2011 18:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-215-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SS-0.0-0.5

LLI Sample # SW 6213462
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:55

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5411 SDG#: DX054-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-215-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SS-0.0-0.5

LLI Sample # SW 6213462
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:55

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5411 SDG#: DX054-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0287	J	0.0197	1.14	1
11031	12378-PeCDD	40321-76-4	0.133	JQ	0.0236	5.70	1
11031	123478-HxCDD	39227-28-6	0.220	JB	0.0458	5.70	1
11031	123678-HxCDD	57653-85-7	0.689	JB	0.0474	5.70	1
11031	123789-HxCDD	19408-74-3	0.561	JB	0.0450	5.70	1
11031	1234678-HpCDD	35822-46-9	18.0	B	0.0455	5.70	1
11031	OCDD	3268-87-9	168	B	0.0481	11.4	1
11031	2378-TCDF	51207-31-9	0.0253	U	0.0253	1.14	1
11031	12378-PeCDF	57117-41-6	0.0529	JB	0.0155	5.70	1
11031	23478-PeCDF	57117-31-4	0.171	JB	0.0153	5.70	1
11031	123478-HxCDF	70648-26-9	0.230	J	0.0356	5.70	1
11031	123678-HxCDF	57117-44-9	0.155	JB	0.0268	5.70	1
11031	123789-HxCDF	72918-21-9	0.118	JB	0.0267	5.70	1
11031	234678-HxCDF	60851-34-5	0.153	JBQ	0.0236	5.70	1
11031	1234678-HpCDF	67562-39-4	3.79	JB	0.0250	5.70	1
11031	1234789-HpCDF	55673-89-7	0.357	JBQ	0.0277	5.70	1
11031	OCDF	39001-02-0	21.9	B	0.0424	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-215-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SS-0.0-0.5

LLI Sample # SW 6213462
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:55

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5411 SDG#: DX054-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-215-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SS-0.0-0.5

LLI Sample # SW 6213462
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:55

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5411 SDG#: DX054-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 09:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402B	03/03/2011 18:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-217-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5A-SS-0.0-0.5

LLI Sample # SW 6213463
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:46

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5412 SDG#: DX054-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-217-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5A-SS-0.0-0.5

LLI Sample # SW 6213463
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:46

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5412 SDG#: DX054-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0409	U	0.0409	1.17	1
11031	12378-PeCDD	40321-76-4	1.02	J	0.0745	5.85	1
11031	123478-HxCDD	39227-28-6	1.82	JB	0.102	5.85	1
11031	123678-HxCDD	57653-85-7	4.04	JB	0.0939	5.85	1
11031	123789-HxCDD	19408-74-3	3.24	JB	0.0792	5.85	1
11031	1234678-HpCDD	35822-46-9	110	B	0.0930	5.85	1
11031	OCDD	3268-87-9	1,300	B	0.0873	11.7	1
11031	2378-TCDF	51207-31-9	2.97	B	0.381	1.17	1
11650	2378-TCDF-Conf	51207-31-9	1.41	B	0.103	1.17	1
11031	12378-PeCDF	57117-41-6	0.819	JB	0.140	5.85	1
11031	23478-PeCDF	57117-31-4	6.38	B	0.137	5.85	1
11031	123478-HxCDF	70648-26-9	13.7		0.179	5.85	1
11031	123678-HxCDF	57117-44-9	1.66	JB	0.135	5.85	1
11031	123789-HxCDF	72918-21-9	0.612	JB	0.0860	5.85	1
11031	234678-HxCDF	60851-34-5	1.61	JB	0.0787	5.85	1
11031	1234678-HpCDF	67562-39-4	14.3	B	0.0795	5.85	1
11031	1234789-HpCDF	55673-89-7	1.66	JB	0.0531	5.85	1
11031	OCDF	39001-02-0	30.3	B	0.0547	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-2378-TCDF-Conf	72	24 - 169
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	43	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-217-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5A-SS-0.0-0.5

LLI Sample # SW 6213463
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:46

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5412 SDG#: DX054-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-217-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5A-SS-0.0-0.5

LLI Sample # SW 6213463
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 14:46

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5412 SDG#: DX054-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 10:37	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11061003	03/16/2011 18:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402B	03/03/2011 18:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-218-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-218-SA5A-SS-0.0-0.5

LLI Sample # SW 6213464
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 15:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5413 SDG#: DX054-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-218-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-218-SA5A-SS-0.0-0.5

LLI Sample # SW 6213464
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 15:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5413 SDG#: DX054-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0555	JQ	0.0272	1.18	1
11031	12378-PeCDD	40321-76-4	0.210	J	0.0359	5.92	1
11031	123478-HxCDD	39227-28-6	0.354	JBQ	0.0586	5.92	1
11031	123678-HxCDD	57653-85-7	0.935	JB	0.0600	5.92	1
11031	123789-HxCDD	19408-74-3	0.741	JB	0.0542	5.92	1
11031	1234678-HpCDD	35822-46-9	20.6	B	0.0548	5.92	1
11031	OCDD	3268-87-9	274	B	0.0683	11.8	1
11031	2378-TCDF	51207-31-9	0.316	JBQ	0.0942	1.18	1
11031	12378-PeCDF	57117-41-6	0.199	JBQ	0.0492	5.92	1
11031	23478-PeCDF	57117-31-4	1.38	JB	0.0499	5.92	1
11031	123478-HxCDF	70648-26-9	2.23	J	0.0812	5.92	1
11031	123678-HxCDF	57117-44-9	0.370	JB	0.0604	5.92	1
11031	123789-HxCDF	72918-21-9	0.168	JB	0.0488	5.92	1
11031	234678-HxCDF	60851-34-5	0.659	JB	0.0454	5.92	1
11031	1234678-HpCDF	67562-39-4	3.02	JB	0.0385	5.92	1
11031	1234789-HpCDF	55673-89-7	0.323	JB	0.0323	5.92	1
11031	OCDF	39001-02-0	6.27	JB	0.0333	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-218-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-218-SA5A-SS-0.0-0.5

LLI Sample # SW 6213464
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 15:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5413 SDG#: DX054-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-218-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-218-SA5A-SS-0.0-0.5

LLI Sample # SW 6213464
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 15:10

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5413 SDG#: DX054-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 11:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402B	03/03/2011 18:58	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-024-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SB-2.5-3.5

LLI Sample # SW 6213465
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:35

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5414 SDG#: DX054-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-024-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SB-2.5-3.5

LLI Sample # SW 6213465
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:35

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5414 SDG#: DX054-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0272 JQ	0.0215	1.12	1
11031	12378-PeCDD	40321-76-4	0.0661 JQ	0.0205	5.58	1
11031	123478-HxCDD	39227-28-6	0.0305 JBQ	0.0211	5.58	1
11031	123678-HxCDD	57653-85-7	0.0743 JBQ	0.0213	5.58	1
11031	123789-HxCDD	19408-74-3	0.0847 JBQ	0.0203	5.58	1
11031	1234678-HpCDD	35822-46-9	0.405 JB	0.0248	5.58	1
11031	OCDD	3268-87-9	1.32 JB	0.0292	11.2	1
11031	2378-TCDF	51207-31-9	0.0213 U	0.0213	1.12	1
11031	12378-PeCDF	57117-41-6	0.0590 JBQ	0.0115	5.58	1
11031	23478-PeCDF	57117-31-4	0.120 JBQ	0.0121	5.58	1
11031	123478-HxCDF	70648-26-9	0.257 J	0.0414	5.58	1
11031	123678-HxCDF	57117-44-9	0.161 JB	0.0262	5.58	1
11031	123789-HxCDF	72918-21-9	0.0830 JBQ	0.0334	5.58	1
11031	234678-HxCDF	60851-34-5	0.225 JB	0.0233	5.58	1
11031	1234678-HpCDF	67562-39-4	1.07 JB	0.0166	5.58	1
11031	1234789-HpCDF	55673-89-7	0.0955 JB	0.0215	5.58	1
11031	OCDF	39001-02-0	0.527 JB	0.0326	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SB-2.5-3.5

LLI Sample # SW 6213465
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:35

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5414 SDG#: DX054-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-024-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SB-2.5-3.5

LLI Sample # SW 6213465
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 12:35

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

X5414 SDG#: DX054-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 12:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402B	03/03/2011 18:58	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-026-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SB-3.5-4.5

LLI Sample # SW 6213466
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 11:19

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5415 SDG#: DX054-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-026-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SB-3.5-4.5

LLI Sample # SW 6213466
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 11:19

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5415 SDG#: DX054-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0293	U	0.0293	1.05	1
11031	12378-PeCDD	40321-76-4	0.0528	JQ	0.0235	5.24	1
11031	123478-HxCDD	39227-28-6	0.0588	JBQ	0.0207	5.24	1
11031	123678-HxCDD	57653-85-7	0.110	JB	0.0214	5.24	1
11031	123789-HxCDD	19408-74-3	0.0925	JBQ	0.0214	5.24	1
11031	1234678-HpCDD	35822-46-9	0.426	JB	0.0279	5.24	1
11031	OCDD	3268-87-9	1.01	JB	0.0328	10.5	1
11031	2378-TCDF	51207-31-9	0.0290	U	0.0290	1.05	1
11031	12378-PeCDF	57117-41-6	0.0576	JBQ	0.0165	5.24	1
11031	23478-PeCDF	57117-31-4	0.147	JBQ	0.0171	5.24	1
11031	123478-HxCDF	70648-26-9	0.195	J	0.0272	5.24	1
11031	123678-HxCDF	57117-44-9	0.141	JBQ	0.0239	5.24	1
11031	123789-HxCDF	72918-21-9	0.114	JB	0.0349	5.24	1
11031	234678-HxCDF	60851-34-5	0.275	JB	0.0262	5.24	1
11031	1234678-HpCDF	67562-39-4	0.969	JB	0.0148	5.24	1
11031	1234789-HpCDF	55673-89-7	0.154	JB	0.0277	5.24	1
11031	OCDF	39001-02-0	0.706	JB	0.0397	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SB-3.5-4.5

LLI Sample # SW 6213466
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 11:19

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5415 SDG#: DX054-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SB-3.5-4.5

LLI Sample # SW 6213466
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 11:19

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5415 SDG#: DX054-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 13:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-031-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SB-4.0-5.0

LLI Sample # SW 6213467
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:04

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5416 SDG#: DX054-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-031-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SB-4.0-5.0

LLI Sample # SW 6213467
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:04

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5416 SDG#: DX054-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0258	J	0.0247	1.10	1
11031	12378-PeCDD	40321-76-4	0.0187	U	0.0187	5.51	1
11031	123478-HxCDD	39227-28-6	0.0289	JBQ	0.0180	5.51	1
11031	123678-HxCDD	57653-85-7	0.0656	JB	0.0191	5.51	1
11031	123789-HxCDD	19408-74-3	0.0347	JB	0.0195	5.51	1
11031	1234678-HpCDD	35822-46-9	0.460	JB	0.0207	5.51	1
11031	OCDD	3268-87-9	1.09	JB	0.0267	11.0	1
11031	2378-TCDF	51207-31-9	0.0228	U	0.0228	1.10	1
11031	12378-PeCDF	57117-41-6	0.0429	JB	0.0131	5.51	1
11031	23478-PeCDF	57117-31-4	0.132	JB	0.0146	5.51	1
11031	123478-HxCDF	70648-26-9	0.196	JQ	0.0251	5.51	1
11031	123678-HxCDF	57117-44-9	0.158	JB	0.0213	5.51	1
11031	123789-HxCDF	72918-21-9	0.0835	JB	0.0312	5.51	1
11031	234678-HxCDF	60851-34-5	0.239	JB	0.0226	5.51	1
11031	1234678-HpCDF	67562-39-4	1.03	JB	0.0117	5.51	1
11031	1234789-HpCDF	55673-89-7	0.148	JB	0.0219	5.51	1
11031	OCDF	39001-02-0	0.755	JB	0.0356	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-031-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SB-4.0-5.0

LLI Sample # SW 6213467
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:04

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5416 SDG#: DX054-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-031-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SB-4.0-5.0

LLI Sample # SW 6213467
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 09:04

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5416 SDG#: DX054-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 14:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11062162402B	03/03/2011 18:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SB-4.0-5.0

LLI Sample # SW 6213468
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 16:15

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5417 SDG#: DX054-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-035-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SB-4.0-5.0

LLI Sample # SW 6213468
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 16:15

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5417 SDG#: DX054-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0205 U	0.0205	1.10	1
11031	12378-PeCDD	40321-76-4	0.0188 U	0.0188	5.52	1
11031	123478-HxCDD	39227-28-6	0.0268 JBQ	0.0167	5.52	1
11031	123678-HxCDD	57653-85-7	0.0419 JBQ	0.0174	5.52	1
11031	123789-HxCDD	19408-74-3	0.0649 JBQ	0.0164	5.52	1
11031	1234678-HpCDD	35822-46-9	0.481 JB	0.0231	5.52	1
11031	OCDD	3268-87-9	1.50 JB	0.0265	11.0	1
11031	2378-TCDF	51207-31-9	0.0193 U	0.0193	1.10	1
11031	12378-PeCDF	57117-41-6	0.0342 JBQ	0.0114	5.52	1
11031	23478-PeCDF	57117-31-4	0.121 JB	0.0115	5.52	1
11031	123478-HxCDF	70648-26-9	0.178 JQ	0.0216	5.52	1
11031	123678-HxCDF	57117-44-9	0.146 JB	0.0195	5.52	1
11031	123789-HxCDF	72918-21-9	0.0742 JBQ	0.0248	5.52	1
11031	234678-HxCDF	60851-34-5	0.255 JB	0.0211	5.52	1
11031	1234678-HpCDF	67562-39-4	1.13 JB	0.0136	5.52	1
11031	1234789-HpCDF	55673-89-7	0.102 JBQ	0.0216	5.52	1
11031	OCDF	39001-02-0	0.643 JBQ	0.0294	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-035-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SB-4.0-5.0

LLI Sample # SW 6213468
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 16:15

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5417 SDG#: DX054-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SB-4.0-5.0

LLI Sample # SW 6213468
LLI Group # 1234301
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/22/2011 16:15

Submitted: 02/23/2011 10:10
Reported: 03/23/2011 17:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5417 SDG#: DX054-17*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061003	03/08/2011 21:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11061003	03/02/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234301
Reported: 03/23/11 at 05:21 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11062162402A	Sample number(s): 6213450-6213461								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11062162402B	Sample number(s): 6213462-6213465,6213467								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11069162401A	Sample number(s): 6213466,6213468								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11061003	Sample number(s): 6213451-6213468								
2378-TCDD	0.0271 U	0.0271	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0264 U	0.0264	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0404 J	0.0220	5.00	ng/kg	105		70-164		
123678-HxCDD	0.0402 J	0.0213	5.00	ng/kg	106		76-134		
123789-HxCDD	0.0521 J	0.0197	5.00	ng/kg	107		64-162		
1234678-HpCDD	0.101 J	0.0261	5.00	ng/kg	104		70-140		
OCDD	0.294 J	0.0209	10.0	ng/kg	104		78-144		
2378-TCDF	0.0342 J	0.0301	1.00	ng/kg	119		75-158		
2378-TCDF-Conf	0.0295 J	0.0234	1.00	ng/kg					
12378-PeCDF	0.0203 J	0.0163	5.00	ng/kg	105		80-134		
23478-PeCDF	0.0718 J	0.0186	5.00	ng/kg	105		68-160		
123478-HxCDF	0.0257 U	0.0257	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0509 J	0.0164	5.00	ng/kg	104		84-130		
123789-HxCDF	0.0710 J	0.0154	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0262 J	0.0131	5.00	ng/kg	106		70-156		
1234678-HpCDF	0.0740 J	0.0127	5.00	ng/kg	104		82-122		
1234789-HpCDF	0.0771 J	0.0152	5.00	ng/kg	105		78-138		
OCDF	0.171 J	0.0342	10.0	ng/kg	107		63-170		
Batch number: 11073001	Sample number(s): 6213450								
2378-TCDD	0.00850 U	0.00850	1.00	ng/kg	87		67-158		
12378-PeCDD	0.0159 J	0.00920	5.00	ng/kg	88		70-142		
123478-HxCDD	0.00942 J	0.00930	5.00	ng/kg	86		70-164		
123678-HxCDD	0.0267 J	0.00950	5.00	ng/kg	88		76-134		
123789-HxCDD	0.0153 J	0.00880	5.00	ng/kg	86		64-162		
1234678-HpCDD	0.208 J	0.0138	5.00	ng/kg	86		70-140		
OCDD	0.397 J	0.0113	10.0	ng/kg	87		78-144		
2378-TCDF	0.0133 J	0.00870	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0184 J	0.00490	5.00	ng/kg	84		80-134		
23478-PeCDF	0.0583 J	0.00520	5.00	ng/kg	84		68-160		
123478-HxCDF	0.0547 J	0.0101	5.00	ng/kg	86		72-134		
123678-HxCDF	0.0394 J	0.00790	5.00	ng/kg	85		84-130		
123789-HxCDF	0.0578 J	0.0111	5.00	ng/kg	85		78-130		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234301
Reported: 03/23/11 at 05:21 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
234678-HxCDF	0.0651	J	0.00870	5.00	ng/kg	86		70-156		
1234678-HpCDF	0.181	J	0.00630	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.0599	J	0.0120	5.00	ng/kg	87		78-138		
OCDF	0.242	J	0.0177	10.0	ng/kg	85		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11062162402A	Sample number(s): 6213450-6213461 BKG: P213417								
28a Moisture Content by 160.3						14.2	13.8	3	20
Batch number: 11062162402B	Sample number(s): 6213462-6213465,6213467 BKG: P213427								
28a Moisture Content by 160.3						12.3	13.0	5	20
Batch number: 11069162401A	Sample number(s): 6213466,6213468 BKG: P214502								
28a Moisture Content by 160.3						6.2	6.6	6	20
Batch number: 11061003	Sample number(s): 6213451-6213468 UNSPK: 6213453								
2378-TCDD	96	99	67-158	2	25				
12378-PeCDD	104	106	70-142	2	25				
123478-HxCDD	105	103	70-164	1	25				
123678-HxCDD	108	104	76-134	3	25				
123789-HxCDD	103	104	64-162	1	25				
1234678-HpCDD	97	87	70-140	5	25				
OCDD	66 (2)	17 (2)	78-144	8	25				
2378-TCDF	103	100	75-158	3	25				
12378-PeCDF	103	104	80-134	0	25				
23478-PeCDF	103	104	68-160	0	25				
123478-HxCDF	103	103	72-134	0	25				
123678-HxCDF	105	102	84-130	3	25				
123789-HxCDF	105	101	78-130	4	25				
234678-HxCDF	104	105	70-156	0	25				
1234678-HpCDF	94	99	82-122	5	25				
1234789-HpCDF	93	100	78-138	6	25				
OCDF	99	96	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11061003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6213451	82	73	34	32	81	87
6213452	77	78	39	53	76	70
6213453	78	88	46	63	80	73

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234301
Reported: 03/23/11 at 05:21 PM

Surrogate Quality Control

6213454	75	81	52	65	80	73
6213455	83	82	34	47	83	82
6213456	80	89	50	65	81	77
6213457	80	84	39	52	82	80
6213458	76	86	43	57	81	80
6213459	83	86	36	46	81	78
6213460	80	85	33	48	75	66
6213461	79	81	36	47	79	78
6213462	83	93	57	74	82	77
6213463	79	86	36	48	79	77
6213464	77	84	45	60	77	76
6213465	72	85	43	65	73	54
6213466	69	86	75	90	77	63
6213467	61	71	61	75	67	55
6213468	70	86	73	81	74	67
Blank	75	72	37	57	69	67
MS	75	81	52	65	80	73
MSD	83	82	34	47	83	82
OPR	73	74	41	66	66	56

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6213451	31	65	38	70	89	63
6213452	48	64	53	88	82	70
6213453	57	69	58	85	90	75
6213454	56	63	55	86	82	76
6213455	42	74	59	84	90	66
6213456	59	73	61	89	95	79
6213457	49	76	58	87	89	72
6213458	53	73	61	86	91	74
6213459	40	64	36	88	97	63
6213460	47	62	43	84	97	64
6213461	40	68	45	83	89	64
6213462	69	70	53	91	98	84
6213463	43	71	55	88	91	63
6213464	55	70	60	84	87	72
6213465	66	56	49	86	93	77
6213466	103	62	53	85	94	84
6213467	83	50	42	73	78	74
6213468	88	59	49	82	91	78
Blank	64	60	57	83	82	70
MS	56	63	55	86	82	76
MSD	42	74	59	84	90	66
OPR	72	50	41	92	91	73

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6213451	46	84	59	48	85	93
6213452	77	80	69	62	75	85
6213453	80	81	74	68	77	93
6213454	76	80	68	62	78	90
6213455	75	88	76	72	82	93

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234301
Reported: 03/23/11 at 05:21 PM

Surrogate Quality Control

6213456	79	81	78	75	78	90
6213457	79	89	78	74	80	90
6213458	76	80	78	75	80	89
6213459	69	83	70	50	83	95
6213460	72	82	75	67	77	99
6213461	72	82	71	63	78	89
6213462	86	87	79	69	83	102
6213463	74	81	74	69	78	93
6213464	77	78	72	66	76	91
6213465	82	82	72	66	69	97
6213466	87	84	79	73	71	100
6213467	73	72	66	58	60	83
6213468	78	78	72	65	71	96
Blank	75	77	75	76	68	84
MS	76	80	68	62	78	90
MSD	75	88	76	72	82	93
OPR	76	76	74	72	65	96
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6213451	78
6213452	
6213453	74
6213454	
6213455	
6213456	
6213457	
6213458	
6213459	
6213460	
6213461	
6213462	
6213463	72
6213464	
6213465	
6213466	
6213467	
6213468	
Blank	64
MS	
MSD	
OPR	
Limits:	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11073001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6213450	85	87	72	80	87	88
Blank	67	58	54	67	58	51
OPR	79	65	60	75	67	57
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234301
Reported: 03/23/11 at 05:21 PM

Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6213450	72	68	56	94	80	80
Blank	81	47	43	90	70	72
OPR	87	52	48	92	79	83
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6213450	79	83	70	60	88	91
Blank	74	73	72	67	57	66
OPR	81	81	79	74	66	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1234301 Sample# 6213450-68

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Carl A. Pells

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
DUP-02-SA5A-QC-022211	2.22.2011	1010	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
DUP-02-SA5A-QC-022211	2.22.2011	1010	SOIL	NONE	1-6 inch sleeve			X	X							
SL-175-SA5A-SS-0.0-0.3	2.22.2011	0952	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	Refusal at 3 to 4 inches
SL-175-SA5A-SS-0.0-0.3	2.22.2011	0952	SOIL	NONE	1-6 inch sleeve			X	X							Refusal at 3 to 4 inches
SL-180-SA5A-SS-0.0-0.5	2.22.2011	1035	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-180-SA5A-SS-0.0-0.5	2.22.2011	1035	SOIL	NONE	1-6 inch sleeve			X	X							
SL-181-SA5A-SS-0.0-0.5MS	2.22.2011	1010	SOIL	NONE	2-16 oz jars	X	X			X	X	X		X	X	MS/MSD sample
SL-181-SA5A-SS-0.0-0.5MS	2.22.2011	1010	SOIL	NONE	2-6 inch sleeves			X	X							MS/MSD sample
SL-196-SA5A-SS-0.0-0.5	2.22.2011	0840	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-196-SA5A-SS-0.0-0.5	2.22.2011	0840	SOIL	NONE	1-6 inch sleeve			X	X							
SL-197-SA5A-SS-0.0-0.5	2.22.2011	0908	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-197-SA5A-SS-0.0-0.5	2.22.2011	0908	SOIL	NONE	1-6 inch sleeve			X	X							
SL-210-SA5A-SS-0.0-0.5	2.22.2011	1313	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-210-SA5A-SS-0.0-0.5	2.22.2011	1313	SOIL	NONE	1-6 inch sleeve			X	X							
SL-211-SA5A-SS-0.0-0.5	2.22.2011	1336	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-211-SA5A-SS-0.0-0.5	2.22.2011	1336	SOIL	NONE	1-6 inch sleeve			X	X							
SL-212-SA5A-SS-0.0-0.5	2.22.2011	1414	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-212-SA5A-SS-0.0-0.5	2.22.2011	1414	SOIL	NONE	1-6 inch sleeve			X	X							
SL-214-SA5A-SS-0.0-0.5	2.22.2011	1228	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-214-SA5A-SS-0.0-0.5	2.22.2011	1228	SOIL	NONE	1-6 inch sleeve			X	X							
SL-215-SA5A-SS-0.0-0.5	2.22.2011	1255	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-215-SA5A-SS-0.0-0.5	2.22.2011	1255	SOIL	NONE	1-6 inch sleeve			X	X							
SL-217-SA5A-SS-0.0-0.5	2.22.2011	1446	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-217-SA5A-SS-0.0-0.5	2.22.2011	1446	SOIL	NONE	1-6 inch sleeve			X	X							
SL-218-SA5A-SS-0.0-0.5	2.22.2011	1510	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-218-SA5A-SS-0.0-0.5	2.22.2011	1510	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)		Laboratory:
	02/22/2011 / 17:00	Katie Hawthorne	2/23/11 10:10	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**		
Katie Hawthorne	2/23/11 10:10	8695 1432 3210; 8695 1432 3221		No. of coolers = 2

acct# 13013 Gp# 1234301 sample# 6213450-68

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020/SM7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-024-SA5A-SB-2.5-3.5	2.22.2011	1235	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-024-SA5A-SB-3.0	2.22.2011	1229	SOIL	NONE	4-Encores									X	X												
SL-026-SA5A-SB-3.5-4.5	2.22.2011	1119	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-026-SA5A-SB-4.0	2.22.2011	1115	SOIL	NONE	5-Encores									X	X	X											
SL-031-SA5A-SB-4.0-5.0	2.22.2011	0904	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-031-SA5A-SB-4.5	2.22.2011	0900	SOIL	NONE	4-Encores									X	X												
SL-035-SA5A-SB-4.0-5.0	2.22.2011	1615	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-035-SA5A-SB-4.5	2.22.2011	1621	SOIL	NONE	5-Encores									X	X	X											
TB-022211	2.22.2011	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK
Relinquished by: (*Signature*)	Date/Time: 02/22/2011 / 17:00		Received for Laboratory by: (*Signature*): Katie Hartline		2/23/11 10:10																						Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s): 8695 1432 3210; 8695 1432 3221																								No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/24/2011
Group Number: 1234465
SDG: DE089
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-03-SA5A-QC-022311 Soil	6214501
SL-036-SA5A-SB-4.0-5.0 Soil	6214502
SL-036-SA5A-SB-4.0-5.0MS Soil	6214503
SL-036-SA5A-SB-4.0-5.0MSD Soil	6214504
SL-036-SA5A-SB-4.0-5.0DUP Soil	6214505
SL-037-SA5A-SB-4.0-5.0 Soil	6214506
SL-040-SA5A-SB-4.0-5.0 Soil	6214507
SL-040-SA5A-SB-9.0-10.0 Soil	6214508
TB-022311 Water	6214509

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-03-SA5A-QC-022311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5A-QC-022311

LLI Sample # SW 6214501
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:31

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE089-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		1.05
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.05
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.05
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		1.05
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.05
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.05
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.05
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		1.05
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.05
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.05
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.05
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		1.05
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.05
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.05
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.05
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.05
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		1.05
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		1.05
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		1.05
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1.05
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		1.05
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.05
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.05
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		1.05
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.05
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.05
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.05
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.05
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.05
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.05
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.05
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.05
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.05
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.05
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.05
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.05
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.05
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.05
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.05
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.05
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.05
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1.05
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		1.05
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.05
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.05
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.05
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.05
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		1.05
06192	Methylene Chloride	75-09-2	1.1	J	0.27	4.4		1.05
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.05

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-03-SA5A-QC-022311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5A-QC-022311

LLI Sample # SW 6214501
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:31

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE089-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.05
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.05
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1.05
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.05
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.05
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		1.05
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.05
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.05
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.05
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.05
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.05
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		1.05
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.05
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.05
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.05
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.05
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.05
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	18		27.65
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.3	U	17.3	34.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1

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Sample Description: **DUP-03-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5A-QC-022311

LLI Sample # SW 6214501
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:31

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE089-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS recoveries were outside of QC limits. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1

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Sample Description: **DUP-03-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5A-QC-022311

LLI Sample # SW 6214501
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:31

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE089-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.37
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1

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Sample Description: **DUP-03-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5A-QC-022311

LLI Sample # SW 6214501
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:31

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE089-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	630	U	630	1,600		1
	Due to an error during the preparation of the intial calibration standards, The initial calibration was outside the limits. The samples were reextracted outside the sample hold time with a new initial calibration curve. Results from the reextraction were within the limits. Similar results were obtained in both extractions. The original, in hold, trial data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **DUP-03-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5A-QC-022311

LLI Sample # SW 6214501
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:31

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE089-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,900		5.11	20.3		1
07914	Boron	7440-42-8	1.35	J	0.904	5.08		1
01650	Calcium	7440-70-2	2,180		6.22	20.3		1
01654	Iron	7439-89-6	27,000		23.9	102		5
01656	Lithium	7439-93-2	22.2		0.22	2.0		1
01657	Magnesium	7439-95-4	4,430		2.58	10.2		1
06958	Manganese	7439-96-5	129		0.0792	0.508		1
10145	Phosphorus	7723-14-0	126		0.569	10.2		1
01662	Potassium	7440-09-7	1,230		18.3	50.8		1
01667	Sodium	7440-23-5	324		37.9	102		1
07968	Strontium	7440-24-6	19.9		0.0630	0.508		1
06969	Tin	7440-31-5	2.92	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,130		0.386	1.02		1
10146	Zirconium	7440-67-7	1.33	J	0.853	5.08		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.240		0.0609	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.51		0.0812	0.406		2
06126	Barium	7440-39-3	121		0.110	0.406		2
06127	Beryllium	7440-41-7	0.855		0.0162	0.102		2
06128	Cadmium	7440-43-9	0.0739	J	0.0406	0.102		2
06131	Chromium	7440-47-3	31.7		0.122	0.406		2
06132	Cobalt	7440-48-4	5.96		0.0203	0.102		2
06133	Copper	7440-50-8	7.89		0.0690	0.418		2
06135	Lead	7439-92-1	8.57		0.0106	0.203		2
06138	Molybdenum	7439-98-7	0.875		0.0508	0.102		2
06139	Nickel	7440-02-0	16.2		0.102	0.406		2
06141	Selenium	7782-49-2	0.164	J	0.0406	0.406		2
06142	Silver	7440-22-4	0.0276	J	0.0122	0.102		2
06145	Thallium	7440-28-0	0.337		0.0305	0.102		2
06148	Vanadium	7440-62-2	59.6		0.0223	0.102		2
06149	Zinc	7440-66-6	71.6		0.569	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.84	1.6		1

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Sample Description: **DUP-03-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5A-QC-022311

LLI Sample # SW 6214501
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:31

Submitted: 02/24/2011 08:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E8901 SDG#: DE089-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	350		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.29		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011	04:25	Holly Berry	1.05
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110561AA	02/25/2011	13:03	Jason M Long	27.65
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011	20:27	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105523750	02/24/2011	21:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105523750	02/24/2011	21:08	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105523750	02/24/2011	20:25	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11057SLB026	03/03/2011	18:35	Timothy J Trees	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-03-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5A-QC-022311

LLI Sample # SW 6214501
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:31

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE089-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLC026	03/10/2011	03:11	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLC026	03/01/2011	22:53	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11057SLB026	02/28/2011	07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLC026	02/25/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLC026	03/01/2011	04:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34A	03/02/2011	15:21	Marie D John	26.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011	20:24	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110600010A	03/05/2011	04:34	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	2	110590006A	03/03/2011	18:02	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110570003A	03/11/2011	12:15	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110570003A	02/27/2011	13:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110590006A	02/28/2011	14:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110600010A	03/01/2011	15:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110560016A	03/01/2011	02:20	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110560023A	02/25/2011	22:12	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110560008A	02/25/2011	19:07	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110560015A	02/28/2011	19:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110560016A	02/26/2011	08:50	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110560015A	02/26/2011	08:50	Denise L Trimby	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110560008A	02/25/2011	13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110560023A	02/25/2011	16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110615708002	03/04/2011	02:23	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110615708002	03/04/2011	02:23	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110615708002	03/04/2011	02:23	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110615708002	03/04/2011	12:52	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	110615708002	03/04/2011	02:23	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110615708002	03/04/2011	02:23	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110615708002	03/04/2011	02:23	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110615708002	03/04/2011	02:23	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110615708002	03/04/2011	02:23	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110615708002	03/04/2011	02:23	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110615708002	03/04/2011	02:23	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110615708002	03/04/2011	02:23	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110615708002	03/04/2011	02:23	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110615708002	03/04/2011	02:23	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110631026002A	03/07/2011	10:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110631026002A	03/07/2011	10:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110631026002D	03/07/2011	10:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110631026002A	03/07/2011	10:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011	10:03	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-03-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5A-QC-022311

LLI Sample # SW 6214501
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:31

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE089-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110631026002A	03/07/2011 10:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110631026002A	03/07/2011 10:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110671026001A	03/09/2011 07:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110631026002A	03/07/2011 10:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110631026002C	03/07/2011 10:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110631026002A	03/07/2011 10:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110631026002B	03/07/2011 10:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110631026002A	03/07/2011 10:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110631026002A	03/07/2011 10:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110631026002A	03/07/2011 10:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708002	03/02/2011 20:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110671026001	03/08/2011 19:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201A	03/08/2011 11:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11066621201A	03/08/2011 11:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201A	03/03/2011 18:37	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11056243201A	02/28/2011 18:05	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11063102201A	03/04/2011 18:39	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201A	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201A	03/03/2011 03:30	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11063102201A	03/04/2011 09:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11056182101A	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401A	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214502
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.1	U	8.1	9.7		1.13
06192	Benzene	71-43-2	0.12	U	0.12	4.8		1.13
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.8		1.13
06192	Bromochloromethane	74-97-5	0.40	U	0.40	4.8		1.13
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.8		1.13
06192	Bromoform	75-25-2	0.48	U	0.48	4.8		1.13
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8		1.13
06192	2-Butanone	78-93-3	1.5	U	1.5	9.7		1.13
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8		1.13
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8		1.13
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8		1.13
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8		1.13
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8		1.13
06192	Chloroethane	75-00-3	0.16	U	0.16	4.8		1.13
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8		1.13
06192	Chloroform	67-66-3	0.14	U	0.14	4.8		1.13
06192	Chloromethane	74-87-3	0.40	U	0.40	4.8		1.13
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8		1.13
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8		1.13
06192	Chlorotrifluoroethene	79-38-9	0.60	U	0.60	6.0		1.13
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.85	U	0.85	4.8		1.13
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8		1.13
06192	1,2-Dibromoethane	106-93-4	0.21	U	0.21	4.8		1.13
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8		1.13
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8		1.13
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8		1.13
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8		1.13
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8		1.13
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8		1.13
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8		1.13
06192	1,1-Dichloroethene	75-35-4	0.47	U	0.47	4.8		1.13
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8		1.13
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8		1.13
06192	1,2-Dichloropropane	78-87-5	0.21	U	0.21	4.8		1.13
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.8		1.13
06192	2,2-Dichloropropane	594-20-7	0.21	U	0.21	4.8		1.13
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.8		1.13
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8		1.13
06192	trans-1,3-Dichloropropene	10061-02-6	0.21	U	0.21	4.8		1.13
06192	Ethylbenzene	100-41-4	0.12	J	0.07	4.8		1.13
06192	Freon 113	76-13-1	0.13	U	0.13	4.8		1.13
06192	Freon 133a	75-88-7	0.60	U	0.60	6.0		1.13
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8		1.13
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.7		1.13
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8		1.13
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8		1.13
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8		1.13
06192	4-Methyl-2-pentanone	108-10-1	0.47	U	0.47	9.7		1.13
06192	Methylene Chloride	75-09-2	0.83	J	0.29	4.8		1.13
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8		1.13

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214502
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.8		1.13
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8		1.13
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.8		1.13
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8		1.13
06192	Toluene	108-88-3	0.1	U	0.1	4.8		1.13
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8		1.13
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.8		1.13
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8		1.13
06192	1,1,2-Trichloroethane	79-00-5	0.33	U	0.33	4.8		1.13
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8		1.13
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.8		1.13
06192	1,2,3-Trichloropropane	96-18-4	0.40	U	0.40	4.8		1.13
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8		1.13
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8		1.13
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8		1.13
06192	m+p-Xylene	179601-23-1	0.39	J	0.21	4.8		1.13
06192	o-Xylene	95-47-6	0.21	U	0.21	4.8		1.13
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		27.11
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.8	U	17.8	35.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1

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Sample Description: **SL-036-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214502
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS recoveries were outside of QC limits. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1

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Sample Description: **SL-036-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214502
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

E8902 SDG#: DE089-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		28.94
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

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E8902 SDG#: DE089-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	630	U	630	1,600		1
	Due to an error during the preparation of the intial calibration standards, The initial calibration was outside the limits. The samples were reextracted outside the sample hold time with a new initial calibration curve. Results from the reextraction were within the limits. Similar results were obtained in both extractions. The original, in hold, trial data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-036-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214502
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

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E8902 SDG#: DE089-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		5.21	20.7		1
07914	Boron	7440-42-8	1.74	J	0.921	5.18		1
01650	Calcium	7440-70-2	1,950		6.34	20.7		1
01654	Iron	7439-89-6	22,700		4.88	20.7		1
01656	Lithium	7439-93-2	21.2		0.23	2.1		1
01657	Magnesium	7439-95-4	4,470		2.63	10.4		1
06958	Manganese	7439-96-5	178		0.0807	0.518		1
10145	Phosphorus	7723-14-0	139		0.580	10.4		1
01662	Potassium	7440-09-7	1,740		18.6	51.8		1
01667	Sodium	7440-23-5	199		38.6	104		1
07968	Strontium	7440-24-6	19.6		0.0642	0.518		1
06969	Tin	7440-31-5	2.86	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,280		0.393	1.04		1
10146	Zirconium	7440-67-7	1.46	J	0.869	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.154	J	0.0640	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.54		0.0853	0.426		2
06126	Barium	7440-39-3	93.4		0.115	0.426		2
06127	Beryllium	7440-41-7	0.629		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0614	J	0.0426	0.107		2
06131	Chromium	7440-47-3	23.9		0.128	0.426		2
06132	Cobalt	7440-48-4	4.68		0.0213	0.107		2
06133	Copper	7440-50-8	7.76		0.0690	0.418		2
06135	Lead	7439-92-1	6.40		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.566		0.0533	0.107		2
06139	Nickel	7440-02-0	11.8		0.107	0.426		2
06141	Selenium	7782-49-2	0.192	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0264	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.253		0.0320	0.107		2
06148	Vanadium	7440-62-2	43.4		0.0235	0.107		2
06149	Zinc	7440-66-6	48.6		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.85	1.6		1

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Sample Description: SL-036-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214502
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

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E8902 SDG#: DE089-02BKG

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199			**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.45	J	0.21	1.1		1
	SW-846 9012B			**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B		57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498			**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	347		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
	SW-846 9045C modified			**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.74		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**			**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	6.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-036-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011	04:48	Holly Berry	1.13
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110561AA	02/25/2011	13:23	Jason M Long	27.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011	20:32	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105523750	02/24/2011	21:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105523750	02/24/2011	21:08	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105523750	02/24/2011	20:30	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11057SLB026	03/03/2011	16:56	Timothy J Trees	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLC026	03/10/2011 01:54	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLC026	03/01/2011 21:17	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11057SLB026	02/28/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLC026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLC026	03/01/2011 04:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34A	03/02/2011 16:06	Marie D John	28.94
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011 20:29	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110600010A	03/05/2011 06:41	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	2	110590006A	03/03/2011 18:12	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110570003A	03/11/2011 12:34	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110570003A	02/27/2011 13:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110590006A	02/28/2011 14:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110600010A	03/01/2011 15:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110560016A	03/01/2011 04:00	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110560023A	02/25/2011 22:27	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110560008A	02/25/2011 19:25	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110560015A	02/28/2011 21:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110560016A	02/26/2011 08:50	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110560015A	02/26/2011 08:50	Denise L Trimby	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110560008A	02/25/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110560023A	02/25/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110615708002	03/04/2011 01:59	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110631026002A	03/07/2011 09:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110631026002A	03/07/2011 09:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110631026002D	03/07/2011 09:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110631026002A	03/07/2011 09:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 09:45	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-036-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214502
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110631026002A	03/07/2011 09:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110631026002A	03/07/2011 09:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110671026001A	03/09/2011 07:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110631026002A	03/07/2011 09:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110631026002C	03/07/2011 09:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110631026002A	03/07/2011 09:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110631026002B	03/07/2011 09:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110631026002A	03/07/2011 09:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 09:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110631026002A	03/07/2011 09:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110631026002A	03/07/2011 09:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708002	03/02/2011 20:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110671026001	03/08/2011 19:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201A	03/08/2011 10:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11066621201A	03/08/2011 10:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201A	03/03/2011 18:37	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11056243201A	02/28/2011 18:17	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11063102201A	03/04/2011 18:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201A	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201A	03/03/2011 03:30	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11063102201A	03/04/2011 09:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11056182101A	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401A	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214503
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	160	7.1	8.4		0.99
06192	Benzene	71-43-2	24	0.11	4.2		0.99
06192	Bromobenzene	108-86-1	23	0.14	4.2		0.99
06192	Bromochloromethane	74-97-5	22	0.35	4.2		0.99
06192	Bromodichloromethane	75-27-4	21	0.08	4.2		0.99
06192	Bromoform	75-25-2	19	0.42	4.2		0.99
06192	Bromomethane	74-83-9	15	0.26	4.2		0.99
06192	2-Butanone	78-93-3	150	1.3	8.4		0.99
06192	n-Butylbenzene	104-51-8	24	0.13	4.2		0.99
06192	sec-Butylbenzene	135-98-8	25	0.06	4.2		0.99
06192	tert-Butylbenzene	98-06-6	24	0.17	4.2		0.99
06192	Carbon Tetrachloride	56-23-5	23	0.15	4.2		0.99
06192	Chlorobenzene	108-90-7	23	0.12	4.2		0.99
06192	Chloroethane	75-00-3	15	0.14	4.2		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	20	0.32	4.2		0.99
06192	Chloroform	67-66-3	23	0.13	4.2		0.99
06192	Chloromethane	74-87-3	21	0.35	4.2		0.99
06192	2-Chlorotoluene	95-49-8	24	0.15	4.2		0.99
06192	4-Chlorotoluene	106-43-4	24	0.15	4.2		0.99
06192	Chlorotrifluoroethene	79-38-9	17	0.53	5.3		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.74	4.2		0.99
06192	Dibromochloromethane	124-48-1	19	0.21	4.2		0.99
06192	1,2-Dibromoethane	106-93-4	21	0.18	4.2		0.99
06192	Dibromomethane	74-95-3	22	0.25	4.2		0.99
06192	1,2-Dichlorobenzene	95-50-1	23	0.09	4.2		0.99
06192	1,3-Dichlorobenzene	541-73-1	23	0.13	4.2		0.99
06192	1,4-Dichlorobenzene	106-46-7	23	0.17	4.2		0.99
06192	Dichlorodifluoromethane	75-71-8	17	0.13	4.2		0.99
06192	1,1-Dichloroethane	75-34-3	24	0.11	4.2		0.99
06192	1,2-Dichloroethane	107-06-2	23	0.16	4.2		0.99
06192	1,1-Dichloroethene	75-35-4	27	0.41	4.2		0.99
06192	cis-1,2-Dichloroethene	156-59-2	24	0.20	4.2		0.99
06192	trans-1,2-Dichloroethene	156-60-5	24	0.13	4.2		0.99
06192	1,2-Dichloropropane	78-87-5	23	0.18	4.2		0.99
06192	1,3-Dichloropropane	142-28-9	22	0.08	4.2		0.99
06192	2,2-Dichloropropane	594-20-7	24	0.18	4.2		0.99
06192	1,1-Dichloropropene	563-58-6	25	0.14	4.2		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.17	4.2		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	20	0.18	4.2		0.99
06192	Ethylbenzene	100-41-4	23	0.06	4.2		0.99
06192	Freon 113	76-13-1	28	0.12	4.2		0.99
06192	Freon 133a	75-88-7	23	0.53	5.3		1
06192	Hexachlorobutadiene	87-68-3	22	0.15	4.2		0.99
06192	2-Hexanone	591-78-6	97	1.7	8.4		0.99
06192	Isopropylbenzene	98-82-8	23	0.06	4.2		0.99
06192	p-Isopropyltoluene	99-87-6	24	0.12	4.2		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	22	0.22	4.2		0.99
06192	4-Methyl-2-pentanone	108-10-1	100	0.41	8.4		0.99
06192	Methylene Chloride	75-09-2	25	0.25	4.2		0.99
06192	n-Propylbenzene	103-65-1	25	0.07	4.2		0.99

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Sample Description: SL-036-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214503
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	22		0.11	4.2		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	21		0.12	4.2		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	20		0.24	4.2		0.99
06192	Tetrachloroethene	127-18-4	23		0.21	4.2		0.99
06192	Toluene	108-88-3	23		0.08	4.2		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	20		0.15	4.2		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	20		0.19	4.2		0.99
06192	1,1,1-Trichloroethane	71-55-6	25		0.21	4.2		0.99
06192	1,1,2-Trichloroethane	79-00-5	21		0.28	4.2		0.99
06192	Trichloroethene	79-01-6	23		0.16	4.2		0.99
06192	Trichlorofluoromethane	75-69-4	23		0.31	4.2		0.99
06192	1,2,3-Trichloropropane	96-18-4	21		0.35	4.2		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	24		0.42	4.2		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	24		0.11	4.2		0.99
06192	Vinyl Chloride	75-01-4	22		0.21	4.2		0.99
06192	m+p-Xylene	179601-23-1	46		0.18	4.2		0.99
06192	o-Xylene	95-47-6	22		0.18	4.2		0.99
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	150		5.8	17		27.35
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	721		17.8	35.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,600		18	180		1
04688	Acenaphthylene	208-96-8	1,700		18	180		1
04688	Aniline	62-53-3	1,400		180	530		1
04688	Anthracene	120-12-7	1,700		18	180		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,600		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		18	180		1
04688	Benzoic acid	65-85-0	550		180	530		1
04688	Benzyl alcohol	100-51-6	1,500		180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,800		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,800		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		35	180		1
04688	4-Chloroaniline	106-47-8	1,300		71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,400		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180		1
04688	2-Chlorophenol	95-57-8	1,600		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		35	180		1

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Sample Description: **SL-036-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214503
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,700	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800	18	180		1
04688	Dibenzofuran	132-64-9	1,700	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,500	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,400	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,500	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300	110	350		1
04688	2,4-Dichlorophenol	120-83-2	1,700	18	180		1
04688	Diethylphthalate	84-66-2	1,600	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,500	35	180		1
04688	3,5-Dimethylphenol	108-68-9	1,600	35	180		1
04688	Dimethylphthalate	131-11-3	1,700	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300	180	530		1
04688	2,4-Dinitrophenol	51-28-5	1,400	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,700	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,600	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600	18	350		1
04688	Fluoranthene	206-44-0	1,600	18	180		1
04688	Fluorene	86-73-7	1,600	18	180		1
04688	Hexachlorobenzene	118-74-1	1,900	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,800	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	3,100	180	530		1
04688	Hexachloroethane	67-72-1	1,300	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	18	180		1
04688	Isophorone	78-59-1	1,600	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180		1
04688	2-Methylphenol	95-48-7	1,500	35	180		1
04688	4-Methylphenol	106-44-5	1,400	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	18	180		1
04688	2-Nitroaniline	88-74-4	1,600	18	180		1
04688	3-Nitroaniline	99-09-2	1,500	35	180		1
04688	4-Nitroaniline	100-01-6	1,200	71	180		1
04688	Nitrobenzene	98-95-3	1,500	18	180		1
04688	2-Nitrophenol	88-75-5	1,700	18	180		1
04688	4-Nitrophenol	100-02-7	1,100	180	530		1
04688	N-Nitrosodimethylamine	62-75-9	1,300	35	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	18	180		1
04688	Pentachlorophenol	87-86-5	1,400	180	530		1
04688	Phenanthrene	85-01-8	1,800	18	180		1
04688	Phenol	108-95-2	1,400	18	180		1

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Sample Description: SL-036-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214503
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	1,500	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	35	180		1
	The LCS recoveries were outside of QC limits. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	29	0.71	1.8		1
10138	Acenaphthylene	208-96-8	31	0.36	1.8		1
10138	Anthracene	120-12-7	32	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	38	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	35	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	38	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	37	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	34	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	43	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	39	6.4	19		1
10138	Chrysene	218-01-9	35	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	36	0.71	1.8		1
10138	Diethylphthalate	84-66-2	35	6.4	19		1
10138	Dimethylphthalate	131-11-3	36	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	48	6.4	19		1
10138	Fluoranthene	206-44-0	34	0.71	1.8		1
10138	Fluorene	86-73-7	30	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	37	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	28	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	24	0.71	1.8		1
10138	Naphthalene	91-20-3	26	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	28	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	43	6.4	19		1
10138	Phenanthrene	85-01-8	32	0.71	1.8		1
10138	Pyrene	129-00-0	33	0.71	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylbenzylphthalate 6.3 ug/kg butylbenzylphthalate 7.1 ug/kg bis(2-ethylhexyl)phthalate 7.0 ug/kg These blank values were not subtracted from the analytical results.						
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	14	0.2	1.2		28.09
Explosives	**SW-846 8330A**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400	64	130	10000000	1

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Sample Description: SL-036-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214503
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E8902 SDG#: DE089-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,400		43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,300		43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,300		43	130	10000000	1
10132	HMX	2691-41-0	2,200		110	320	10000000	1
10132	Nitrobenzene	98-95-3	2,300		43	130	10000000	1
10132	Nitroglycerin	55-63-0	54,000		850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	2,300		85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,300		110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,200		85	130	10000000	1
10132	PETN	78-11-5	60,000		850	2,600	10000000	1
10132	RDX	121-82-4	2,100		53	130	10000000	1
10132	Tetryl	479-45-8	2,400		65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,500		43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	6,100		640	1,600		1
	Due to an error during the preparation of the intial calibration standards, The initial calibration was outside the limits. The samples were reextracted outside the sample hold time with a new initial calibration curve. Results from the reextraction were within the limits. Similar results were obtained in both extractions. The original, in hold, trial data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	15		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	16		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.81	J	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	1.5		0.43	1.3		1
10199	EFH (C21-C30)	n.a.	5.6		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	19		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.72	J	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,100		110	530		1
10501	Isopropanol	67-63-0	2,200		110	530		1
10501	Methanol	67-56-1	2,300		110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	160		5.3	13		1
08283	Ethylene glycol	107-21-1	180		5.3	13		1
08283	Propylene glycol	57-55-6	170		5.3	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	J	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	J	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.4	J	1.4	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,800		5.31	21.1		1
07914	Boron	7440-42-8	210		0.939	5.28		1
01650	Calcium	7440-70-2	2,440		6.47	21.1		1
01654	Iron	7439-89-6	21,500		4.97	21.1		1
01656	Lithium	7439-93-2	129		0.23	2.1		1
01657	Magnesium	7439-95-4	4,880		2.68	10.6		1
06958	Manganese	7439-96-5	254		0.0823	0.528		1
10145	Phosphorus	7723-14-0	260		0.591	10.6		1
01662	Potassium	7440-09-7	3,270		19.0	52.8		1
01667	Sodium	7440-23-5	1,250		39.4	106		1
07968	Strontium	7440-24-6	121		0.0654	0.528		1
06969	Tin	7440-31-5	379		1.06	10.6		1
06970	Titanium	7440-32-6	1,540		0.401	1.06		1
10146	Zirconium	7440-67-7	106		0.887	5.28		1

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SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

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E8902 SDG#: DE089-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.23	0.0627	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.1	0.0836	0.418		2
06126	Barium	7440-39-3	147	0.113	0.418		2
06127	Beryllium	7440-41-7	1.81	0.0167	0.105		2
06128	Cadmium	7440-43-9	1.69	0.0418	0.105		2
06131	Chromium	7440-47-3	47.9	0.125	0.418		2
06132	Cobalt	7440-48-4	76.3	0.0209	0.105		2
06133	Copper	7440-50-8	18.8	0.0697	0.422		2
06135	Lead	7439-92-1	13.6	0.0109	0.209		2
06138	Molybdenum	7439-98-7	16.5	0.0523	0.105		2
06139	Nickel	7440-02-0	30.9	0.105	0.418		2
06141	Selenium	7782-49-2	3.02	0.0418	0.418		2
06142	Silver	7440-22-4	15.2	0.0125	0.105		2
06145	Thallium	7440-28-0	1.00	0.0314	0.105		2
06148	Vanadium	7440-62-2	75.7	0.0230	0.105		2
06149	Zinc	7440-66-6	80.5	0.585	3.14		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.168	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5	0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	11.2	0.85	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	528	9.6	32.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	40.8	1.1	5.3		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	5.5	0.19	0.52		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	6.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-036-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214503
LLI Group # 1234465
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E8902 SDG#: DE089-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011 05:10	Holly Berry	0.99
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011 05:55	Holly Berry	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110561AA	02/25/2011 14:43	Jason M Long	27.35
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011 20:38	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105523750	02/24/2011 21:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105523750	02/24/2011 21:08	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105523750	02/24/2011 20:35	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11057SLB026	03/03/2011 17:13	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLC026	03/10/2011 02:20	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLC026	03/01/2011 21:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11057SLB026	02/28/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLC026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLC026	03/01/2011 04:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34A	03/02/2011 16:56	Marie D John	28.09
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011 20:34	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110600010A	03/05/2011 07:23	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	2	110590006A	03/03/2011 18:21	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110570003A	03/11/2011 12:52	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110570003A	02/27/2011 13:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110590006A	02/28/2011 14:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110600010A	03/01/2011 15:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110560016A	03/01/2011 04:25	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110560023A	02/25/2011 22:57	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110560008A	02/25/2011 19:42	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110560015A	02/28/2011 21:52	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110560016A	02/26/2011 08:50	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110560015A	02/26/2011 08:50	Denise L Trimby	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110560008A	02/25/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110560023A	02/25/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1

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E8902 SDG#: DE089-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110615708002	03/04/2011 02:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110631026002A	03/07/2011 09:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110631026002A	03/07/2011 09:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110631026002D	03/07/2011 09:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110631026002A	03/07/2011 09:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 09:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110631026002A	03/07/2011 09:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110631026002A	03/07/2011 09:54	Choon Y Tian	2
06133	Copper	SW-846 6020	2	110671026001A	03/09/2011 07:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110631026002A	03/07/2011 09:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110631026002C	03/07/2011 09:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110631026002A	03/07/2011 09:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110631026002B	03/07/2011 09:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110631026002A	03/07/2011 09:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 09:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110631026002A	03/07/2011 09:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110631026002A	03/07/2011 09:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708002	03/02/2011 20:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110671026001	03/08/2011 19:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201A	03/08/2011 10:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11066621201A	03/08/2011 10:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201A	03/03/2011 18:13	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11056243201A	02/28/2011 18:36	Carrie E Miller	5
05895	21a Cyanide by 9012B	SW-846 9012B	1	11063102201A	03/04/2011 18:08	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201A	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201A	03/03/2011 03:30	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11063102201A	03/04/2011 09:45	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214504
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	160	7.3	8.8		1.03
06192	Benzene	71-43-2	23	0.11	4.4		1.03
06192	Bromobenzene	108-86-1	22	0.14	4.4		1.03
06192	Bromochloromethane	74-97-5	22	0.36	4.4		1.03
06192	Bromodichloromethane	75-27-4	21	0.09	4.4		1.03
06192	Bromoform	75-25-2	18	0.44	4.4		1.03
06192	Bromomethane	74-83-9	15	0.27	4.4		1.03
06192	2-Butanone	78-93-3	150	1.3	8.8		1.03
06192	n-Butylbenzene	104-51-8	21	0.13	4.4		1.03
06192	sec-Butylbenzene	135-98-8	23	0.07	4.4		1.03
06192	tert-Butylbenzene	98-06-6	22	0.17	4.4		1.03
06192	Carbon Tetrachloride	56-23-5	23	0.15	4.4		1.03
06192	Chlorobenzene	108-90-7	22	0.12	4.4		1.03
06192	Chloroethane	75-00-3	15	0.14	4.4		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	21	0.33	4.4		1.03
06192	Chloroform	67-66-3	23	0.13	4.4		1.03
06192	Chloromethane	74-87-3	20	0.36	4.4		1.03
06192	2-Chlorotoluene	95-49-8	22	0.15	4.4		1.03
06192	4-Chlorotoluene	106-43-4	22	0.15	4.4		1.03
06192	Chlorotrifluoroethene	79-38-9	17	0.54	5.4		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.77	4.4		1.03
06192	Dibromochloromethane	124-48-1	18	0.22	4.4		1.03
06192	1,2-Dibromoethane	106-93-4	20	0.19	4.4		1.03
06192	Dibromomethane	74-95-3	21	0.26	4.4		1.03
06192	1,2-Dichlorobenzene	95-50-1	20	0.1	4.4		1.03
06192	1,3-Dichlorobenzene	541-73-1	21	0.13	4.4		1.03
06192	1,4-Dichlorobenzene	106-46-7	21	0.17	4.4		1.03
06192	Dichlorodifluoromethane	75-71-8	17	0.13	4.4		1.03
06192	1,1-Dichloroethane	75-34-3	23	0.11	4.4		1.03
06192	1,2-Dichloroethane	107-06-2	22	0.16	4.4		1.03
06192	1,1-Dichloroethene	75-35-4	26	0.43	4.4		1.03
06192	cis-1,2-Dichloroethene	156-59-2	23	0.21	4.4		1.03
06192	trans-1,2-Dichloroethene	156-60-5	24	0.13	4.4		1.03
06192	1,2-Dichloropropane	78-87-5	22	0.19	4.4		1.03
06192	1,3-Dichloropropane	142-28-9	21	0.09	4.4		1.03
06192	2,2-Dichloropropane	594-20-7	23	0.19	4.4		1.03
06192	1,1-Dichloropropene	563-58-6	24	0.14	4.4		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.17	4.4		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.19	4.4		1.03
06192	Ethylbenzene	100-41-4	22	0.07	4.4		1.03
06192	Freon 113	76-13-1	26	0.12	4.4		1.03
06192	Freon 133a	75-88-7	24	0.54	5.4		1.01
06192	Hexachlorobutadiene	87-68-3	17	0.15	4.4		1.03
06192	2-Hexanone	591-78-6	92	1.8	8.8		1.03
06192	Isopropylbenzene	98-82-8	22	0.07	4.4		1.03
06192	p-Isopropyltoluene	99-87-6	22	0.12	4.4		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	21	0.23	4.4		1.03
06192	4-Methyl-2-pentanone	108-10-1	100	0.43	8.8		1.03
06192	Methylene Chloride	75-09-2	23	0.26	4.4		1.03
06192	n-Propylbenzene	103-65-1	23	0.08	4.4		1.03

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Sample Description: SL-036-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214504
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	21		0.11	4.4		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	20		0.12	4.4		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	19		0.25	4.4		1.03
06192	Tetrachloroethene	127-18-4	22		0.22	4.4		1.03
06192	Toluene	108-88-3	22		0.09	4.4		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	17		0.15	4.4		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	18		0.20	4.4		1.03
06192	1,1,1-Trichloroethane	71-55-6	24		0.22	4.4		1.03
06192	1,1,2-Trichloroethane	79-00-5	20		0.30	4.4		1.03
06192	Trichloroethene	79-01-6	23		0.16	4.4		1.03
06192	Trichlorofluoromethane	75-69-4	22		0.32	4.4		1.03
06192	1,2,3-Trichloropropane	96-18-4	19		0.36	4.4		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	22		0.44	4.4		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	22		0.11	4.4		1.03
06192	Vinyl Chloride	75-01-4	21		0.22	4.4		1.03
06192	m+p-Xylene	179601-23-1	43		0.19	4.4		1.03
06192	o-Xylene	95-47-6	21		0.19	4.4		1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	140		6.0	18		28.03
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	842		17.5	35.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,600		18	180		1
04688	Acenaphthylene	208-96-8	1,600		18	180		1
04688	Aniline	62-53-3	1,200		180	530		1
04688	Anthracene	120-12-7	1,500		18	180		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,700		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,900		18	180		1
04688	Benzoic acid	65-85-0	590		180	530		1
04688	Benzyl alcohol	100-51-6	1,400		180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,700		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,600		18	180		1
04688	Carbazole	86-74-8	1,600		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		35	180		1
04688	4-Chloroaniline	106-47-8	1,200		70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,300		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,300		18	180		1
04688	2-Chlorophenol	95-57-8	1,600		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		35	180		1

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Sample Description: **SL-036-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214504
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,600		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		18	180		1
04688	Dibenzofuran	132-64-9	1,700		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,400		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,400		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100		110	350		1
04688	2,4-Dichlorophenol	120-83-2	1,600		18	180		1
04688	Diethylphthalate	84-66-2	1,600		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,500		35	180		1
04688	3,5-Dimethylphenol	108-68-9	1,600		35	180		1
04688	Dimethylphthalate	131-11-3	1,600		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000		180	530		1
04688	2,4-Dinitrophenol	51-28-5	900	J	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,600		35	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,600		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,500		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		18	350		1
04688	Fluoranthene	206-44-0	1,500		18	180		1
04688	Fluorene	86-73-7	1,600		18	180		1
04688	Hexachlorobenzene	118-74-1	1,800		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700		70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,900		180	530		1
04688	Hexachloroethane	67-72-1	1,200		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		18	180		1
04688	Isophorone	78-59-1	1,500		18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,500		18	180		1
04688	2-Methylphenol	95-48-7	1,400		35	180		1
04688	4-Methylphenol	106-44-5	1,400		35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,500		18	180		1
04688	2-Nitroaniline	88-74-4	1,500		18	180		1
04688	3-Nitroaniline	99-09-2	1,500		35	180		1
04688	4-Nitroaniline	100-01-6	1,100		70	180		1
04688	Nitrobenzene	98-95-3	1,400		18	180		1
04688	2-Nitrophenol	88-75-5	1,700		18	180		1
04688	4-Nitrophenol	100-02-7	990		180	530		1
04688	N-Nitrosodimethylamine	62-75-9	1,200		35	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,800		18	180		1
04688	Pentachlorophenol	87-86-5	1,100		180	530		1
04688	Phenanthrene	85-01-8	1,600		18	180		1
04688	Phenol	108-95-2	1,400		18	180		1

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Sample Description: **SL-036-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214504
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	1,700	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	35	180		1
The LCS recoveries were outside of QC limits. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	30	0.71	1.8		1
10138	Acenaphthylene	208-96-8	32	0.36	1.8		1
10138	Anthracene	120-12-7	32	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	38	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	36	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	39	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	37	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	34	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	42	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	39	6.4	19		1
10138	Chrysene	218-01-9	35	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	36	0.71	1.8		1
10138	Diethylphthalate	84-66-2	35	6.4	19		1
10138	Dimethylphthalate	131-11-3	36	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	47	6.4	19		1
10138	Fluoranthene	206-44-0	34	0.71	1.8		1
10138	Fluorene	86-73-7	31	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	37	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	29	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	25	0.71	1.8		1
10138	Naphthalene	91-20-3	27	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	29	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	43	6.4	19		1
10138	Phenanthrene	85-01-8	32	0.71	1.8		1
10138	Pyrene	129-00-0	34	0.71	1.8		1
The following compounds were detected in the method blank at the respective concentrations of: di-n-butylbenzylphthalate 6.3 ug/kg butylbenzylphthalate 7.1 ug/kg bis(2-ethylhexyl)phthalate 7.0 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	13	0.2	1.1		26.32
Explosives	**SW-846 8330A**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400	64	130	10000000	1

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Sample Description: SL-036-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214504
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,400		43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,300		43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,300		43	130	10000000	1
10132	HMX	2691-41-0	2,200		110	320	10000000	1
10132	Nitrobenzene	98-95-3	2,300		43	130	10000000	1
10132	Nitroglycerin	55-63-0	53,000		850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	2,300		85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,200		110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,200		85	130	10000000	1
10132	PETN	78-11-5	59,000		850	2,600	10000000	1
10132	RDX	121-82-4	2,100		53	130	10000000	1
10132	Tetryl	479-45-8	2,300		65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,500		43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	5,500		640	1,600		1
	Due to an error during the preparation of the intial calibration standards, The initial calibration was outside the limits. The samples were reextracted outside the sample hold time with a new initial calibration curve. Results from the reextraction were within the limits. Similar results were obtained in both extractions. The original, in hold, trial data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	15		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1

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Sample Description: SL-036-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214504
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	18		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	1.1	J	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	1.5		0.43	1.3		1
10199	EFH (C21-C30)	n.a.	2.6		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	4.2		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.68	J	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,100		110	530		1
10501	Isopropanol	67-63-0	2,200		110	530		1
10501	Methanol	67-56-1	2,200		110	530		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	190		5.3	13		1
08283	Ethylene glycol	107-21-1	200		5.3	13		1
08283	Propylene glycol	57-55-6	180		5.3	13		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	J	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	J	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.4	J	1.4	3.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,900		5.31	21.1		1
07914	Boron	7440-42-8	210		0.939	5.28		1
01650	Calcium	7440-70-2	2,450		6.47	21.1		1
01654	Iron	7439-89-6	22,000		4.97	21.1		1
01656	Lithium	7439-93-2	128		0.23	2.1		1
01657	Magnesium	7439-95-4	4,960		2.68	10.6		1
06958	Manganese	7439-96-5	256		0.0823	0.528		1
10145	Phosphorus	7723-14-0	253		0.591	10.6		1
01662	Potassium	7440-09-7	3,260		19.0	52.8		1
01667	Sodium	7440-23-5	1,240		39.4	106		1
07968	Strontium	7440-24-6	122		0.0654	0.528		1
06969	Tin	7440-31-5	376		1.06	10.6		1
06970	Titanium	7440-32-6	1,540		0.401	1.06		1
10146	Zirconium	7440-67-7	104		0.887	5.28		1

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Sample Description: SL-036-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214504
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.913	0.0627	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.7	0.0836	0.418		2
06126	Barium	7440-39-3	120	0.113	0.418		2
06127	Beryllium	7440-41-7	1.71	0.0167	0.105		2
06128	Cadmium	7440-43-9	1.52	0.0418	0.105		2
06131	Chromium	7440-47-3	42.9	0.125	0.418		2
06132	Cobalt	7440-48-4	67.6	0.0209	0.105		2
06133	Copper	7440-50-8	15.9	0.0683	0.414		2
06135	Lead	7439-92-1	12.7	0.0109	0.209		2
06138	Molybdenum	7439-98-7	14.7	0.0523	0.105		2
06139	Nickel	7440-02-0	26.5	0.105	0.418		2
06141	Selenium	7782-49-2	2.76	0.0418	0.418		2
06142	Silver	7440-22-4	13.9	0.0125	0.105		2
06145	Thallium	7440-28-0	0.874	0.0314	0.105		2
06148	Vanadium	7440-62-2	68.1	0.0230	0.105		2
06149	Zinc	7440-66-6	73.1	0.585	3.14		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.162	0.0029	0.102		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	6.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-036-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011 05:32	Holly Berry	1.03
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011 06:18	Holly Berry	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110561AA	02/25/2011 15:03	Jason M Long	28.03
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011 20:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105523750	02/24/2011 21:09	Lois E Hiltz	n.a.

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Sample Description: **SL-036-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214504
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E8902 SDG#: DE089-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105523750	02/24/2011 21:09	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105523750	02/24/2011 20:40	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11057SLB026	03/03/2011 17:45	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLC026	03/10/2011 02:45	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLC026	03/01/2011 22:21	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11057SLB026	02/28/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLC026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLC026	03/01/2011 04:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34A	03/02/2011 17:45	Marie D John	26.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011 20:40	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110600010A	03/05/2011 08:06	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	2	110590006A	03/03/2011 18:40	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110570003A	03/11/2011 13:11	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110570003A	02/27/2011 13:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110590006A	02/28/2011 14:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110600010A	03/01/2011 15:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110560016A	03/01/2011 04:50	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110560023A	02/25/2011 23:11	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110560008A	02/25/2011 20:00	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110560015A	02/28/2011 22:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110560016A	02/26/2011 08:50	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110560015A	02/26/2011 08:50	Denise L Trimby	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110560008A	02/25/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110560023A	02/25/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110615708002	03/04/2011 02:16	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110631026002A	03/07/2011 14:27	Choon Y Tian	2

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Sample Description: **SL-036-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214504
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E8902 SDG#: DE089-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110631026002A	03/07/2011 09:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110631026002D	03/07/2011 09:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110631026002A	03/07/2011 09:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 09:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110631026002A	03/07/2011 09:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110631026002A	03/07/2011 09:57	Choon Y Tian	2
06133	Copper	SW-846 6020	2	110671026001A	03/09/2011 07:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110631026002A	03/07/2011 09:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110631026002C	03/07/2011 09:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110631026002A	03/07/2011 09:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110631026002B	03/07/2011 09:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110631026002A	03/07/2011 09:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 09:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110631026002A	03/07/2011 09:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110631026002A	03/07/2011 09:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708002	03/02/2011 20:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110671026001	03/08/2011 19:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214505
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E8902 SDG#: DE089-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,900		5.21	20.7		1
07914	Boron	7440-42-8	1.49	J	0.921	5.18		1
01650	Calcium	7440-70-2	1,830		6.34	20.7		1
01654	Iron	7439-89-6	20,300		4.88	20.7		1
01656	Lithium	7439-93-2	20.5		0.23	2.1		1
01657	Magnesium	7439-95-4	4,340		2.63	10.4		1
06958	Manganese	7439-96-5	185		0.0807	0.518		1
10145	Phosphorus	7723-14-0	139		0.580	10.4		1
01662	Potassium	7440-09-7	1,810		18.6	51.8		1
01667	Sodium	7440-23-5	193		38.6	104		1
07968	Strontium	7440-24-6	17.4		0.0642	0.518		1
06969	Tin	7440-31-5	2.84	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,220		0.393	1.04		1
10146	Zirconium	7440-67-7	1.95	J	0.869	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.153	J	0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.70		0.0844	0.422		2
06126	Barium	7440-39-3	86.3		0.114	0.422		2
06127	Beryllium	7440-41-7	0.579		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.0751	J	0.0422	0.106		2
06131	Chromium	7440-47-3	24.1		0.127	0.422		2
06132	Cobalt	7440-48-4	4.38		0.0211	0.106		2
06133	Copper	7440-50-8	9.18		0.0690	0.418		2
06135	Lead	7439-92-1	5.89		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.511		0.0528	0.106		2
06139	Nickel	7440-02-0	11.5		0.106	0.422		2
06141	Selenium	7782-49-2	0.161	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0244	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.255		0.0317	0.106		2
06148	Vanadium	7440-62-2	43.1		0.0232	0.106		2
06149	Zinc	7440-66-6	47.5		0.591	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214505
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	360		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	6.2		0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	6.6		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110615708002	03/04/2011 02:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110631026002A	03/07/2011 09:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110631026002A	03/07/2011 09:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110631026002D	03/07/2011 09:51	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5A-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214505
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE089-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110631026002A	03/07/2011 09:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 09:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110631026002A	03/07/2011 09:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110631026002A	03/07/2011 09:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110671026001A	03/09/2011 07:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110631026002A	03/07/2011 09:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110631026002C	03/07/2011 09:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110631026002A	03/07/2011 09:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110631026002B	03/07/2011 09:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110631026002A	03/07/2011 09:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 09:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110631026002A	03/07/2011 09:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110631026002A	03/07/2011 09:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708002	03/02/2011 20:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110671026001	03/08/2011 19:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201A	03/08/2011 10:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11066621201A	03/08/2011 10:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201A	03/03/2011 17:49	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11056243201A	02/28/2011 19:13	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11063102201A	03/04/2011 18:10	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201A	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201A	03/03/2011 03:30	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11063102201A	03/04/2011 09:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11056182101A	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401A	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SB-4.0-5.0

LLI Sample # SW 6214506
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:54

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8903 SDG#: DE089-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.97
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.97
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.97
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.97
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.97
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.97
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.97
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.97
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.97
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.97
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.97
06192	Ethylbenzene	100-41-4	0.18	J	0.07	4.4		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.97
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.97
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		0.97
06192	Methylene Chloride	75-09-2	0.98	J	0.26	4.4		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.97

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SB-4.0-5.0

LLI Sample # SW 6214506
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:54

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8903 SDG#: DE089-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.97
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.97
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.97
06192	m+p-Xylene	179601-23-1	0.55	J	0.19	4.4		0.97
06192	o-Xylene	95-47-6	0.19	J	0.19	4.4		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.1	U	6.1	18		27.06
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.7	U	18.7	37.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-037-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SB-4.0-5.0

LLI Sample # SW 6214506
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:54

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8903 SDG#: DE089-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS recoveries were outside of QC limits. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

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Sample Description: **SL-037-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SB-4.0-5.0

LLI Sample # SW 6214506
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:54

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8903 SDG#: DE089-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	J	0.2	1.1		24.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1

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Sample Description: SL-037-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SB-4.0-5.0

LLI Sample # SW 6214506
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:54

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8903 SDG#: DE089-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
	Due to an error during the preparation of the intial calibration standards, The initial calibration was outside the limits. The samples were reextracted outside the sample hold time with a new initial calibration curve. Results from the reextraction were within the limits. Similar results were obtained in both extractions. The original, in hold, trial data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.51	J	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were							

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Sample Description: **SL-037-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SB-4.0-5.0

LLI Sample # SW 6214506
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:54

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8903 SDG#: DE089-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,100		5.45	21.7		1
07914	Boron	7440-42-8	2.28	J	0.965	5.42		1
01650	Calcium	7440-70-2	2,970		6.65	21.7		1
01654	Iron	7439-89-6	30,600		25.5	108		5
01656	Lithium	7439-93-2	36.4		0.24	2.2		1
01657	Magnesium	7439-95-4	6,630		2.75	10.8		1
06958	Manganese	7439-96-5	245		0.0846	0.542		1
10145	Phosphorus	7723-14-0	130		0.607	10.8		1
01662	Potassium	7440-09-7	1,600		19.5	54.2		1
01667	Sodium	7440-23-5	358		40.4	108		1
07968	Strontium	7440-24-6	29.0		0.0672	0.542		1
06969	Tin	7440-31-5	3.34	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,590		0.412	1.08		1
10146	Zirconium	7440-67-7	2.32	J	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146	J	0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.71		0.0884	0.442		2
06126	Barium	7440-39-3	116		0.119	0.442		2
06127	Beryllium	7440-41-7	0.977		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.0889	J	0.0442	0.111		2
06131	Chromium	7440-47-3	39.7		0.133	0.442		2
06132	Cobalt	7440-48-4	8.16		0.0221	0.111		2
06133	Copper	7440-50-8	9.20		0.0722	0.438		2
06135	Lead	7439-92-1	8.26		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.974		0.0553	0.111		2
06139	Nickel	7440-02-0	20.4		0.111	0.442		2
06141	Selenium	7782-49-2	0.0843	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0840	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.290		0.0332	0.111		2
06148	Vanadium	7440-62-2	59.2		0.0243	0.111		2
06149	Zinc	7440-66-6	57.6		0.619	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.5		0.90	1.1		1

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Sample Description: **SL-037-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SB-4.0-5.0

LLI Sample # SW 6214506
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:54

Submitted: 02/24/2011 08:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8903 SDG#: DE089-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	357		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.16		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-037-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011 06:40	Holly Berry	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110561AA	02/25/2011 13:43	Jason M Long	27.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011 20:51	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105523750	02/24/2011 21:09	Lois E Hiltz	n.a.

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Sample Description: **SL-037-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SB-4.0-5.0

LLI Sample # SW 6214506
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E8903 SDG#: DE089-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105523750	02/24/2011 21:09	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105523750	02/24/2011 20:48	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11057SLB026	03/03/2011 18:52	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLC026	03/10/2011 03:35	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLC026	03/01/2011 23:24	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11057SLB026	02/28/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLC026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLC026	03/01/2011 04:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34A	03/02/2011 18:48	Marie D John	24.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011 20:47	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110600010A	03/05/2011 08:48	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	2	110590006A	03/03/2011 18:50	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110570003A	03/11/2011 13:29	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110570003A	02/27/2011 13:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110590006A	02/28/2011 14:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110600010A	03/01/2011 15:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110560016A	03/01/2011 02:45	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110560023A	02/25/2011 23:26	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110560008A	02/25/2011 20:52	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110560015A	02/28/2011 23:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110560016A	02/26/2011 08:50	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110560015A	02/26/2011 08:50	Denise L Trimby	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110560008A	02/25/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110560023A	02/25/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110615708002	03/04/2011 02:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110615708002	03/04/2011 02:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110615708002	03/04/2011 02:35	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110615708002	03/04/2011 12:55	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	110615708002	03/04/2011 02:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110615708002	03/04/2011 02:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110615708002	03/04/2011 02:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110615708002	03/04/2011 02:35	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110615708002	03/04/2011 02:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110615708002	03/04/2011 02:35	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110615708002	03/04/2011 02:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110615708002	03/04/2011 02:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110615708002	03/04/2011 02:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110615708002	03/04/2011 02:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110631026002A	03/07/2011 10:06	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-037-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SB-4.0-5.0

LLI Sample # SW 6214506
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:54

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8903 SDG#: DE089-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110631026002A	03/07/2011 10:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110631026002D	03/07/2011 10:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110631026002A	03/07/2011 10:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 10:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110631026002A	03/07/2011 10:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110631026002A	03/07/2011 10:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110671026001A	03/09/2011 07:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110631026002A	03/07/2011 10:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110631026002C	03/07/2011 10:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110631026002A	03/07/2011 10:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110631026002B	03/07/2011 10:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110631026002A	03/07/2011 10:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110631026002A	03/07/2011 10:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110631026002A	03/07/2011 10:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708002	03/02/2011 20:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110671026001	03/08/2011 19:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201A	03/08/2011 11:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11066621201A	03/08/2011 11:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201A	03/03/2011 19:01	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11056243201A	02/28/2011 19:32	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11063102201A	03/04/2011 18:11	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201A	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201A	03/03/2011 03:30	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11063102201A	03/04/2011 09:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11056182101A	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401A	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-4.0-5.0

LLI Sample # SW 6214507
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:26

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8904 SDG#: DE089-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.91
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.91
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.91
06192	Ethylbenzene	100-41-4	0.13	J	0.06	4.1		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.91
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.91
06192	Methylene Chloride	75-09-2	2.7	J	0.24	4.1		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.91

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Sample Description: SL-040-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-4.0-5.0

LLI Sample # SW 6214507
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:26

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8904 SDG#: DE089-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.91
06192	m+p-Xylene	179601-23-1	0.35	J	0.17	4.1		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.64
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	21.4	J	18.5	37.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-4.0-5.0

LLI Sample # SW 6214507
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:26

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8904 SDG#: DE089-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS recoveries were outside of QC limits. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-4.0-5.0

LLI Sample # SW 6214507
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:26

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8904 SDG#: DE089-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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Sample Description: SL-040-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-4.0-5.0

LLI Sample # SW 6214507
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:26

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8904 SDG#: DE089-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
	Due to an error during the preparation of the intial calibration standards, The initial calibration was outside the limits. The samples were reextracted outside the sample hold time with a new initial calibration curve. Results from the reextraction were within the limits. Similar results were obtained in both extractions. The original, in hold, trial data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were							

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Sample Description: **SL-040-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-4.0-5.0

LLI Sample # SW 6214507
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:26

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8904 SDG#: DE089-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,700		5.50	21.9		1
07914	Boron	7440-42-8	2.16	J	0.973	5.46		1
01650	Calcium	7440-70-2	2,450		6.70	21.9		1
01654	Iron	7439-89-6	23,300		5.15	21.9		1
01656	Lithium	7439-93-2	26.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,100		2.78	10.9		1
06958	Manganese	7439-96-5	288		0.0853	0.546		1
10145	Phosphorus	7723-14-0	202		0.612	10.9		1
01662	Potassium	7440-09-7	1,860		19.7	54.6		1
01667	Sodium	7440-23-5	106	J	40.8	109		1
07968	Strontium	7440-24-6	24.9		0.0678	0.546		1
06969	Tin	7440-31-5	2.92	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,410		0.415	1.09		1
10146	Zirconium	7440-67-7	2.06	J	0.918	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.227		0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.15		0.0883	0.442		2
06126	Barium	7440-39-3	156		0.119	0.442		2
06127	Beryllium	7440-41-7	1.02		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.113		0.0442	0.110		2
06131	Chromium	7440-47-3	33.7		0.132	0.442		2
06132	Cobalt	7440-48-4	13.0		0.0221	0.110		2
06133	Copper	7440-50-8	8.93		0.0729	0.442		2
06135	Lead	7439-92-1	10.8		0.0115	0.221		2
06138	Molybdenum	7439-98-7	1.25		0.0552	0.110		2
06139	Nickel	7440-02-0	19.7		0.110	0.442		2
06141	Selenium	7782-49-2	0.0940	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0604	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.421		0.0331	0.110		2
06148	Vanadium	7440-62-2	63.3		0.0243	0.110		2
06149	Zinc	7440-66-6	76.5		0.618	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.89	1.1		1

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Sample Description: **SL-040-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-4.0-5.0

LLI Sample # SW 6214507
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:26

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8904 SDG#: DE089-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	368		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-040-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011 07:02	Holly Berry	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110561AA	02/25/2011 14:03	Jason M Long	22.64
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011 20:57	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105523750	02/24/2011 21:09	Lois E Hiltz	n.a.

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Sample Description: SL-040-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-4.0-5.0

LLI Sample # SW 6214507
LLI Group # 1234465
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E8904 SDG#: DE089-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105523750	02/24/2011 21:09	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105523750	02/24/2011 20:54	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11057SLB026	03/03/2011 19:08	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLC026	03/10/2011 04:01	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLC026	03/01/2011 23:57	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11057SLB026	02/28/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLC026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLC026	03/01/2011 04:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34A	03/02/2011 19:30	Marie D John	21.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011 20:53	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110600010A	03/05/2011 09:30	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	2	110590006A	03/03/2011 18:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110570003A	03/11/2011 13:48	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110570003A	02/27/2011 13:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110590006A	02/28/2011 14:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110600010A	03/01/2011 15:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110560016A	03/01/2011 03:10	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110560023A	02/25/2011 23:41	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110560008A	02/25/2011 21:10	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110560015A	03/01/2011 00:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110560016A	02/26/2011 08:50	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110560015A	02/26/2011 08:50	Denise L Trimby	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110560008A	02/25/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110560023A	02/25/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110615708002	03/04/2011 02:39	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110631026002A	03/07/2011 10:15	Choon Y Tian	2

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Sample Description: **SL-040-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-4.0-5.0

LLI Sample # SW 6214507
LLI Group # 1234465
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E8904 SDG#: DE089-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110631026002A	03/07/2011 10:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110631026002D	03/07/2011 10:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110631026002A	03/07/2011 10:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 10:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110631026002A	03/07/2011 10:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110631026002A	03/07/2011 10:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110671026001A	03/09/2011 07:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110631026002A	03/07/2011 10:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110631026002C	03/07/2011 10:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110631026002A	03/07/2011 10:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110631026002B	03/07/2011 10:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110631026002A	03/07/2011 10:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110631026002A	03/07/2011 10:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110631026002A	03/07/2011 10:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708002	03/02/2011 20:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110671026001	03/08/2011 19:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201A	03/08/2011 11:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11066621201A	03/08/2011 11:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201A	03/03/2011 19:49	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11056243201A	02/28/2011 19:38	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11063102201A	03/04/2011 18:12	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201A	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201A	03/03/2011 03:30	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11063102201A	03/04/2011 09:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11056182101A	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401A	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-9.0-10.0

LLI Sample # SW 6214508
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:36

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8905 SDG#: DE089-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		1
06192	Benzene	71-43-2	0.11	U	0.11	4.2		1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		1
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		1
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		1
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		1
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		1
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		1
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		1
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		1
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		1
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		1
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		1
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		1
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		1
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		1
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		1
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		1
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		1
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		1
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		1
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		1
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		1
06192	Ethylbenzene	100-41-4	0.15	J	0.06	4.2		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		1
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		1
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		1
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		1
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		1
06192	Methylene Chloride	75-09-2	0.73	J	0.25	4.2		1
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		1

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Sample Description: SL-040-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-9.0-10.0

LLI Sample # SW 6214508
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:36

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8905 SDG#: DE089-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		1
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		1
06192	Toluene	108-88-3	0.08	U	0.08	4.2		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		1
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		1
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		1
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		1
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		1
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		1
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		1
06192	m+p-Xylene	179601-23-1	0.51	J	0.18	4.2		1
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		24.41
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.5	U	17.5	35.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1

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Sample Description: SL-040-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-9.0-10.0

LLI Sample # SW 6214508
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:36

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8905 SDG#: DE089-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS recoveries were outside of QC limits. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1

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Sample Description: SL-040-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-9.0-10.0

LLI Sample # SW 6214508
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:36

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14420 Albemarle Point Place
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E8905 SDG#: DE089-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.67
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1

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Sample Description: SL-040-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-9.0-10.0

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E8905 SDG#: DE089-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	630	U	630	1,600		1
	Due to an error during the preparation of the intial calibration standards, The initial calibration was outside the limits. The samples were reextracted outside the sample hold time with a new initial calibration curve. Results from the reextraction were within the limits. Similar results were obtained in both extractions. The original, in hold, trial data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-9.0-10.0

LLI Sample # SW 6214508
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:36

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8905 SDG#: DE089-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		5.30	21.1		1
07914	Boron	7440-42-8	1.35	J	0.938	5.27		1
01650	Calcium	7440-70-2	1,930		6.46	21.1		1
01654	Iron	7439-89-6	19,200		4.96	21.1		1
01656	Lithium	7439-93-2	18.8		0.23	2.1		1
01657	Magnesium	7439-95-4	3,790		2.68	10.5		1
06958	Manganese	7439-96-5	178		0.0822	0.527		1
10145	Phosphorus	7723-14-0	126		0.590	10.5		1
01662	Potassium	7440-09-7	1,610		19.0	52.7		1
01667	Sodium	7440-23-5	151		39.3	105		1
07968	Strontium	7440-24-6	19.2		0.0653	0.527		1
06969	Tin	7440-31-5	2.83	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,250		0.400	1.05		1
10146	Zirconium	7440-67-7	1.45	J	0.885	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0620	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.53		0.0826	0.413		2
06126	Barium	7440-39-3	108		0.112	0.413		2
06127	Beryllium	7440-41-7	0.734		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0722	J	0.0413	0.103		2
06131	Chromium	7440-47-3	26.6		0.124	0.413		2
06132	Cobalt	7440-48-4	7.94		0.0207	0.103		2
06133	Copper	7440-50-8	9.12		0.0669	0.405		2
06135	Lead	7439-92-1	7.92		0.0107	0.207		2
06138	Molybdenum	7439-98-7	0.733		0.0517	0.103		2
06139	Nickel	7440-02-0	13.9		0.103	0.413		2
06141	Selenium	7782-49-2	0.0666	J	0.0413	0.413		2
06142	Silver	7440-22-4	0.0472	J	0.0124	0.103		2
06145	Thallium	7440-28-0	0.371		0.0310	0.103		2
06148	Vanadium	7440-62-2	54.1		0.0227	0.103		2
06149	Zinc	7440-66-6	72.1		0.579	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0028	U	0.0028	0.0992		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.84	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-040-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-9.0-10.0

LLI Sample # SW 6214508
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:36

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8905 SDG#: DE089-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.84	U	0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	357		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.59		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-040-SA5A-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110561AA	02/25/2011 07:25	Holly Berry	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110561AA	02/25/2011 14:23	Jason M Long	24.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011 21:04	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105523750	02/24/2011 21:09	Lois E Hiltz	n.a.

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Sample Description: SL-040-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-9.0-10.0

LLI Sample # SW 6214508
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:36

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8905 SDG#: DE089-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105523750	02/24/2011 21:09	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105523750	02/24/2011 21:03	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11057SLB026	03/03/2011 19:25	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLC026	03/10/2011 04:26	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056SLC026	03/02/2011 00:29	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11057SLB026	02/28/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11056SLC026	02/25/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLC026	03/01/2011 04:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34A	03/02/2011 20:21	Marie D John	25.67
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201105523750	02/24/2011 20:59	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110600010A	03/05/2011 10:13	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	2	110590006A	03/03/2011 19:09	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110570003A	03/11/2011 14:06	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110570003A	02/27/2011 13:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110590006A	02/28/2011 14:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110600010A	03/01/2011 15:40	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110560016A	03/01/2011 03:35	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110560023A	02/25/2011 23:56	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110560008A	02/25/2011 21:27	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110560015A	03/01/2011 00:53	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110560016A	02/26/2011 08:50	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110560015A	02/26/2011 08:50	Denise L Trimby	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110560008A	02/25/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110560023A	02/25/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110615708002	03/04/2011 02:43	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110631026002A	03/07/2011 10:18	Choon Y Tian	2

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Sample Description: SL-040-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-9.0-10.0

LLI Sample # SW 6214508
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:36

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8905 SDG#: DE089-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110631026002A	03/07/2011 10:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110631026002D	03/07/2011 10:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110631026002A	03/07/2011 10:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 10:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110631026002A	03/07/2011 10:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110631026002A	03/07/2011 10:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110671026001A	03/09/2011 07:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110631026002A	03/07/2011 10:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110631026002C	03/07/2011 10:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110631026002A	03/07/2011 10:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110631026002B	03/07/2011 10:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110631026002A	03/07/2011 10:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110631026002A	03/07/2011 10:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110631026002A	03/07/2011 10:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708002	03/02/2011 20:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110671026001	03/08/2011 19:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201A	03/08/2011 11:46	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11066621201A	03/08/2011 11:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201A	03/03/2011 20:13	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11056243201A	02/28/2011 19:57	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11063102201A	03/04/2011 18:15	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201A	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201A	03/03/2011 03:30	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11063102201A	03/04/2011 09:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11056182101A	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401A	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11056243201A	02/25/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-022311 Water
SSFL Area IV Collocated Soil Sampling
TB-022311

LLI Sample # WW 6214509
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 16:30

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8906 SDG#: DE089-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-022311 Water**
SSFL Area IV Collocated Soil Sampling
TB-022311

LLI Sample # WW 6214509
LLI Group # 1234465
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 16:30

Submitted: 02/24/2011 08:50
Reported: 03/18/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8906 SDG#: DE089-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110591AA	02/28/2011	12:45	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110551AA	02/24/2011	21:27	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110551AA	02/24/2011	21:27	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110591AA	02/28/2011	12:45	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11059F20A	03/01/2011	16:40	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11059F20A	03/01/2011	16:40	Tyler O Griffin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110561AA	Sample number(s): 6214501-6214504,6214506-6214508									
Acetone	6.7	U	6.7	8.0	ug/kg	181		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	105		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	103		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	89		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	70		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	141		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	103		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	105		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	103		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	100		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	71		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	99		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	104		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	89		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	75		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	92		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	88		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	101		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	100		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	75		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	105		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	104		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	115		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	93		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	119		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	101		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	99		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	134		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105		75-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	104		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	112		61-134		
Methylene Chloride	0.60	J	0.24	4.0	ug/kg	108		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	107		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	97		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	96		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	101		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	100		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	109		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	99		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	103		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	98		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	103		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	106		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	94		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
Batch number: E110551AA	Sample number(s): 6214509									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	111	111	80-123	0	30
Batch number: E110561AA	Sample number(s): 6214501-6214504,6214506-6214508									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	111	103	70-130	7	30
Batch number: Y110591AA	Sample number(s): 6214509									
Acetone	6	U	6.	20	ug/l	81	79	49-234	3	30
Benzene	0.5	U	0.5	5	ug/l	95	95	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	94	95	80-120	1	30
Bromoform	1	U	1.	5	ug/l	80	84	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	87	87	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	101	101	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	99	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	93	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	93	93	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	80	80	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	118	116	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	100	99	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	80	81	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	100	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	96	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	48	50	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	93	92	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	91	91	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	99	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	95	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	96	96	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	76	74	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	98	97	79-120	0	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	107	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	84	85	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	92	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	98	96	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	102	102	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	93	94	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	98	96	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	94	95	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	98	79-120	1	30
Freon 113	2	U	2.	10	ug/l	82	82	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	93	94	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	86	87	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	103	102	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	96	95	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	100	99	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	105	106	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	89	90	80-120	0	30
n-Propylbenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
Styrene	1	U	1.	5	ug/l	91	93	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	94	96	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	102	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	92	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	95	95	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	87	89	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	92	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	84	84	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	98	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	95	95	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	92	91	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	107	106	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	101	101	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	99	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	79	79	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	94	93	80-120	1	30

Batch number: 11056SLC026 Sample number(s): 6214501-6214504,6214506-6214508

Acenaphthene	0.67	U	0.67	1.7	ug/kg	90	63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93	60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	89	55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	102	74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98	58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	105	63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	103	44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	104	54-142
Butylbenzylphthalate	7.1	J	6.0	18	ug/kg	117	65-131
Di-n-butylphthalate	6.3	J	6.0	18	ug/kg	101	75-137
Chrysene	0.33	U	0.33	1.7	ug/kg	98	73-114
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	103	53-138
Diethylphthalate	6.0	U	6.0	18	ug/kg	100	68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101	79-121
Bis(2-Ethylhexyl)phthalate	7.0	J	6.0	18	ug/kg	133	67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	91	64-120
Fluorene	0.67	U	0.67	1.7	ug/kg	92	71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	103	56-134

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	78		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	83		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	85		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	120		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	89		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		56-121		
Batch number: 11057SLB026	Sample number(s): 6214501-6214504,6214506-6214508									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	100		70-130		
Batch number: 11059SLC026	Sample number(s): 6214501-6214504,6214506-6214508									
Acenaphthene	17	U	17.	170	ug/kg	56*		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	58*		75-122		
Aniline	170 U		170.	500	ug/kg	57		34-94		
Anthracene	17	U	17.	170	ug/kg	53*		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	29		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	61*		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	62*		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	61		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	64*		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	62*		67-125		
Benzoic acid	170 U		170.	500	ug/kg	49*		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	54*		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	60*		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	67*		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	54*		79-112		
Carbazole	17	U	17.	170	ug/kg	51*		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	54*		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	48		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	55*		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	47*		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	58*		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	55		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	57*		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	58*		79-110		
Chrysene	17	U	17.	170	ug/kg	63*		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	61*		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	56*		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	52*		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	50*		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	50*		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	53		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	60*		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	55*		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	56*		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	58*		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	57*		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	50*		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	46		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	58*		73-115		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	57*		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	48*		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	63*		75-117		
Fluoranthene	17	U	17.	170	ug/kg	49*		78-116		
Fluorene	17	U	17.	170	ug/kg	53*		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	59*		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	60*		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	54		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	46*		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	62*		64-119		
Isophorone	17	U	17.	170	ug/kg	55*		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	59*		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	57*		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	53*		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	52*		66-117		
Naphthalene	17	U	17.	170	ug/kg	54*		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	56*		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	57*		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	42*		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	52*		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	59*		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	37*		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	49*		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	41*		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	56*		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	65*		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	43*		51-117		
Phenanthrene	17	U	17.	170	ug/kg	53*		77-113		
Phenol	17	U	17.	170	ug/kg	51*		58-112		
Pyrene	17	U	17.	170	ug/kg	60*		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	58*		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	58*		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	60*		78-111		
Batch number: 11059F20A	Sample number(s): 6214509									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	89	91	75-135	2	30
Batch number: 11060A34A	Sample number(s): 6214501-6214504,6214506-6214508									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69		67-119		
Batch number: 110600010A	Sample number(s): 6214501-6214504,6214506-6214508									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	107		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	101	100	54-134	1	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	101	99	54-134	1	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	105		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	100		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	104		80-120		
HMX	100	U	100.	300	ug/kg	96		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	100		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	91		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	98		73-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80 U	U	80.	120	ug/kg	97		80-120		
PETN	800 U	U	800.	2,400	ug/kg	107		80-120		
RDX	50	U	50.	120	ug/kg	97		75-131		
Tetryl	61	U	61.	120	ug/kg	113		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	111		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
Batch number: 110590006A	Sample number(s): 6214501-6214504,6214506-6214508									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	110		80-126		
Batch number: 110570003A	Sample number(s): 6214501-6214504,6214506-6214508									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	69	36-106	15	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	84		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	101		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110560016A	Sample number(s): 6214501-6214504,6214506-6214508									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	104		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	109		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	105		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	75		66-113		
Batch number: 110560008A	Sample number(s): 6214501-6214504,6214506-6214508									
Diethylene glycol	5.0	U	5.0	13	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	103		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	100		75-125		
Batch number: 110560023A	Sample number(s): 6214501-6214504,6214506-6214508									
Ethanol	100 U	U	100.	500	ug/kg	91		75-112		
Isopropanol	100 U	U	100.	500	ug/kg	96		75-125		
Methanol	100 U	U	100.	500	ug/kg	94		75-134		
Batch number: 110560015A	Sample number(s): 6214501-6214504,6214506-6214508									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	84		75-125		
Batch number: 110595711002	Sample number(s): 6214501-6214508									
Mercury	0.0029	U	0.0029	0.0997	mg/kg	100		88-123		
Batch number: 110615708002	Sample number(s): 6214501-6214508									
Aluminum	5.03	U	5.03	20.0	mg/kg	99		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	97		78-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Calcium	6.13	U	6.13	20.0	mg/kg	96		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	98		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	103		81-119		
Phosphorus	1.16	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	102		79-121		
Tin	1.38	J	1.00	10.0	mg/kg	103		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	103		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		
Batch number: 110631026002A	Sample number(s): 6214501-6214508									
Antimony	0.0600	U	0.0600	0.200	mg/kg	128		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	102		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	110		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	113		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	112		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	108		82-118		
Lead	0.0104	U	0.0104	0.200	mg/kg	107		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	110		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	110		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	112		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	106		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	107		78-122		
Batch number: 110631026002B	Sample number(s): 6214501-6214508									
Selenium	0.0400	U	0.0400	0.400	mg/kg	108		79-122		
Batch number: 110631026002C	Sample number(s): 6214501-6214508									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	119		78-122		
Batch number: 110631026002D	Sample number(s): 6214501-6214508									
Barium	0.108	U	0.108	0.400	mg/kg	105		79-121		
Batch number: 110671026001A	Sample number(s): 6214501-6214508									
Copper	0.183	J	0.0660	0.400	mg/kg	103		80-120		
Batch number: 11056243201A	Sample number(s): 6214501-6214503,6214505-6214508									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11061495201A	Sample number(s): 6214501-6214503,6214505-6214508									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11063102201A	Sample number(s): 6214501-6214503,6214505-6214508									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11066621201A	Sample number(s): 6214501-6214503,6214505-6214508									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11056039401A	Sample number(s): 6214501-6214502,6214505-6214508									
22a pH by 9045C						99		95-105		
Batch number: 11056182101A	Sample number(s): 6214501-6214502,6214505-6214508									
32a OR Potential						99		98-102		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11069162401A	Sample number(s): 6214501-6214508								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110561AA	Sample number(s): 6214501-6214504,6214506-6214508 UNSPK: 6214502								
Acetone	104	99	15-210	1	30				
Benzene	113	105	55-143	3	30				
Bromobenzene	111	101	43-139	6	30				
Bromochloromethane	105	102	60-137	1	30				
Bromodichloromethane	101	94	53-136	3	30				
Bromoform	88	81	38-124	5	30				
Bromomethane	70	67	42-168	0	30				
2-Butanone	96	90	37-163	3	30				
n-Butylbenzene	115	97	30-146	13	30				
sec-Butylbenzene	116	103	33-157	8	30				
tert-Butylbenzene	112	102	41-152	6	30				
Carbon Tetrachloride	110	103	45-153	3	30				
Chlorobenzene	107	98	49-135	5	30				
Chloroethane	73	70	39-152	0	30				
2-Chloroethyl Vinyl Ether	96	95	32-139	3	30				
Chloroform	109	103	61-142	3	30				
Chloromethane	97	92	51-163	1	30				
2-Chlorotoluene	111	102	42-146	5	30				
4-Chlorotoluene	112	101	39-145	7	30				
Chlorotrifluoroethene	79	79	70-130	1	30				
1,2-Dibromo-3-chloropropane	85	73	30-139	11	30				
Dibromochloromethane	90	83	51-128	5	30				
1,2-Dibromoethane	100	92	54-129	5	30				
Dibromomethane	103	96	57-130	3	30				
1,2-Dichlorobenzene	107	94	36-133	9	30				
1,3-Dichlorobenzene	108	95	34-134	9	30				
1,4-Dichlorobenzene	107	94	35-136	9	30				
Dichlorodifluoromethane	83	78	26-151	2	30				
1,1-Dichloroethane	112	105	63-142	3	30				
1,2-Dichloroethane	108	99	68-131	5	30				
1,1-Dichloroethene	126	119	61-149	3	30				
cis-1,2-Dichloroethene	112	104	60-136	4	30				
trans-1,2-Dichloroethene	115	108	59-142	2	30				
1,2-Dichloropropane	108	100	62-135	4	30				
1,3-Dichloropropane	102	94	58-129	5	30				
2,2-Dichloropropane	112	104	53-147	3	30				
1,1-Dichloropropene	117	110	54-145	3	30				
cis-1,3-Dichloropropene	99	94	51-131	1	30				
trans-1,3-Dichloropropene	94	87	49-129	5	30				
Ethylbenzene	110	101	44-141	5	30				
Freon 113	131	118	56-156	8	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Freon 133a	109	111	61-131	3	30				
Hexachlorobutadiene	102	78	10-155	24	30				
2-Hexanone	92	84	32-160	5	30				
Isopropylbenzene	111	100	38-144	7	30				
p-Isopropyltoluene	115	102	29-152	9	30				
Methyl Tertiary Butyl Ether	102	94	55-129	5	30				
4-Methyl-2-pentanone	99	91	46-139	4	30				
Methylene Chloride	116	103	61-141	8	30				
n-Propylbenzene	118	107	39-157	7	30				
Styrene	105	95	35-134	7	30				
1,1,1,2-Tetrachloroethane	101	91	52-130	6	30				
1,1,2,2-Tetrachloroethane	95	85	40-152	7	30				
Tetrachloroethene	110	100	42-149	5	30				
Toluene	110	102	50-146	4	30				
1,2,3-Trichlorobenzene	95	79	10-140	15	30				
1,2,4-Trichlorobenzene	97	81	10-136	14	30				
1,1,1-Trichloroethane	117	111	64-142	2	30				
1,1,2-Trichloroethane	101	91	54-139	6	30				
Trichloroethene	111	105	53-144	2	30				
Trichlorofluoromethane	108	103	47-163	1	30				
1,2,3-Trichloropropane	98	89	45-154	6	30				
1,2,4-Trimethylbenzene	114	102	37-149	7	30				
1,3,5-Trimethylbenzene	113	102	38-150	7	30				
Vinyl Chloride	103	98	50-154	1	30				
m+p-Xylene	109	98	44-137	6	30				
o-Xylene	106	97	42-137	5	30				
Batch number: E110561AA	Sample number(s): 6214501-6214504,6214506-6214508 UNSPK: 6214502								
1,4-Dioxane	103	93	70-130	8	30				
Batch number: 11056SLC026	Sample number(s): 6214501-6214504,6214506-6214508 UNSPK: 6214502								
Acenaphthene	82	84	63-105	3	30				
Acenaphthylene	88	89	67-114	1	30				
Anthracene	91	91	60-122	0	30				
Benzo(a)anthracene	106	106	59-128	1	30				
Benzo(a)pyrene	100	100	45-138	1	30				
Benzo(b)fluoranthene	107	111	43-155	4	30				
Benzo(g,h,i)perylene	103	103	33-141	0	30				
Benzo(k)fluoranthene	95	95	42-144	0	30				
Butylbenzylphthalate	121	118	57-173	3	30				
Di-n-butylphthalate	88	89	65-148	1	30				
Chrysene	99	100	48-134	1	30				
Dibenz(a,h)anthracene	102	102	22-133	0	30				
Diethylphthalate	100	98	70-136	1	30				
Dimethylphthalate	100	102	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	112	109	39-167	2	30				
Fluoranthene	95	95	26-166	0	30				
Fluorene	86	87	66-122	2	30				
Indeno(1,2,3-cd)pyrene	104	103	21-143	1	30				
1-Methylnaphthalene	78	80	72-123	3	30				
2-Methylnaphthalene	69	71	64-103	3	30				
Naphthalene	73	75	61-102	3	30				
N-Nitrosodimethylamine	80	82	48-113	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-octylphthalate	122	120	40-192	2	30				
Phenanthrene	89	90	12-165	1	30				
Pyrene	94	96	15-153	1	30				
Batch number: 11057SLB026	Sample number(s): 6214501-6214504,6214506-6214508 UNSPK: 6214502								
N-Nitrosodimethylamine	81	96	70-130	16	30				
Batch number: 11059SLC026	Sample number(s): 6214501-6214504,6214506-6214508 UNSPK: 6214502								
Acenaphthene	93	90	75-115	4	30				
Acenaphthylene	98	93	81-110	6	30				
Aniline	80	66	35-95	20	30				
Anthracene	96	87	75-115	11	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	89	95	65-122	6	30				
Benzo(a)pyrene	104	102	57-126	2	30				
Benzo(b)fluoranthene	107	99	59-125	8	30				
Benzo(g,h,i)perylene	109	105	59-127	4	30				
Benzo(k)fluoranthene	103	108	56-132	4	30				
Benzoic acid	31	34	10-173	6	30				
Benzyl alcohol	87	82	67-115	6	30				
4-Bromophenyl-phenylether	92	99	67-129	7	30				
Butylbenzylphthalate	99	94	73-134	6	30				
Di-n-butylphthalate	98	93	67-123	5	30				
Carbazole	100	92	64-120	8	30				
4-Chloro-3-methylphenol	84	81	76-110	5	30				
4-Chloroaniline	76	66	23-95	15	30				
bis(2-Chloroethoxy)methane	89	87	75-104	3	30				
bis(2-Chloroethyl)ether	77	74	60-116	5	30				
bis(2-Chloroisopropyl)ether	94	90	55-142	5	30				
2-Chloronaphthalene	77	75	50-141	4	30				
2-Chlorophenol	92	89	73-121	4	30				
4-Chlorophenyl-phenylether	97	92	80-109	7	30				
Chrysene	97	90	62-128	8	30				
Dibenz(a,h)anthracene	104	102	65-125	3	30				
Dibenzofuran	97	94	71-112	4	30				
1,2-Dichlorobenzene	84	79	66-108	6	30				
1,3-Dichlorobenzene	81	77	63-109	6	30				
1,4-Dichlorobenzene	83	78	70-100	7	30				
3,3'-Dichlorobenzidine	76	63	16-119	19	30				
2,4-Dichlorophenol	94	92	78-117	3	30				
Diethylphthalate	92	89	66-118	4	30				
2,4-Dimethylphenol	87	83	78-110	5	30				
3,5-Dimethylphenol	92	90	70-130	2	30				
Dimethylphthalate	94	90	64-118	5	30				
4,6-Dinitro-2-methylphenol	72	57	24-116	25	30				
2,4-Dinitrophenol	39	26	20-143	40*	30				
2,4-Dinitrotoluene	99	92	73-113	8	30				
2,6-Dinitrotoluene	94	91	69-123	4	30				
1,2-Diphenylhydrazine	89	85	71-129	5	30				
bis(2-Ethylhexyl)phthalate	92	97	63-122	5	30				
Fluoranthene	92	86	73-112	7	30				
Fluorene	90	90	77-111	1	30				
Hexachlorobenzene	107	101	77-114	7	30				

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Quality Control Summary

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Reported: 03/18/11 at 02:20 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorobutadiene	101	96	62-120	6	30				
Hexachlorocyclopentadiene	88	83	10-153	7	30				
Hexachloroethane	75	71	57-109	5	30				
Indeno(1,2,3-cd)pyrene	106	103	61-126	4	30				
Isophorone	89	87	73-102	2	30				
1-Methylnaphthalene	98	95	73-112	4	30				
2-Methylnaphthalene	90	88	76-114	2	30				
2-Methylphenol	84	81	75-111	5	30				
4-Methylphenol	81	78	71-111	4	30				
Naphthalene	89	86	72-116	4	30				
2-Nitroaniline	92	86	67-125	7	30				
3-Nitroaniline	87	84	59-122	4	30				
4-Nitroaniline	68	62	52-112	10	30				
Nitrobenzene	84	81	72-106	4	30				
2-Nitrophenol	98	95	74-115	4	30				
4-Nitrophenol	62	57	54-113	10	30				
N-Nitroso-di-n-propylamine	80	78	60-116	3	30				
N-Nitrosodimethylamine	74	69	47-116	8	30				
N-Nitrosodiphenylamine	101	94	86-145	8	30				
Di-n-octylphthalate	106	102	56-126	5	30				
Pentachlorophenol	77	63	28-127	20	30				
Phenanthrene	100	93	65-125	8	30				
Phenol	81	80	58-126	2	30				
Pyrene	87	96	74-126	10	30				
1,2,4-Trichlorobenzene	96	92	72-115	5	30				
2,4,5-Trichlorophenol	96	93	78-109	5	30				
2,4,6-Trichlorophenol	101	95	77-115	7	30				
Batch number: 11060A34A	Sample number(s): 6214501-6214504,6214506-6214508 UNSPK: 6214502								
9a TPH by EPA 8015B Gas C5-C12	105	108	39-118	4	30				
Batch number: 110600010A	Sample number(s): 6214501-6214504,6214506-6214508 UNSPK: 6214502								
4-Amino-2,6-Dinitrotoluene	113	112	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	113	111	80-137	1	50				
1,3-Dinitrobenzene	112	111	38-166	1	50				
2,4-Dinitrotoluene	107	106	80-131	1	50				
2,6-Dinitrotoluene	109	109	80-127	1	50				
HMX	103	102	63-128	1	50				
Nitrobenzene	108	108	80-125	0	50				
Nitroglycerin	105	104	80-120	1	50				
2-Nitrotoluene	108	107	80-122	1	50				
3-Nitrotoluene	106	105	72-119	1	50				
4-Nitrotoluene	104	103	80-125	1	50				
PETN	117	116	80-121	1	50				
RDX	98	97	75-129	1	50				
Tetryl	113	108	55-174	5	50				
1,3,5-Trinitrobenzene	117	115	82-126	1	50				
2,4,6-Trinitrotoluene	114	113	82-130	1	50				
Batch number: 110590006A	Sample number(s): 6214501-6214504,6214506-6214508 UNSPK: 6214502								
17a Formaldehyde by 8315A	114	102	80-120	11	50				
Batch number: 110570003A	Sample number(s): 6214501-6214504,6214506-6214508 UNSPK: 6214502								

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Quality Control Summary

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Reported: 03/18/11 at 02:20 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
PCB-1016	84	86	29-146	2	50				
PCB-1260	92	101	39-149	10	50				
Batch number: 110560016A	Sample number(s): 6214501-6214504,6214506-6214508 UNSPK: 6214502								
EFH (C12-C14)	92	119	49-123	27*	20				
EFH (C15-C20)	115	110	49-123	4	20				
EFH (C21-C30)	255*	115	49-123	75*	20				
EFH (C30 - C40)	709*	156*	49-123	127*	20				
EFH (C8-C11)	82	76	49-123	6	20				
Batch number: 110560008A	Sample number(s): 6214501-6214504,6214506-6214508 UNSPK: 6214502								
Diethylene glycol	68	84	59-109	21*	20				
Ethylene glycol	84	90	63-107	7	20				
Propylene glycol	83	84	63-107	2	20				
Batch number: 110560023A	Sample number(s): 6214501-6214504,6214506-6214508 UNSPK: 6214502								
Ethanol	78	77	24-143	1	20				
Isopropanol	83	81	75-125	3	20				
Methanol	87	83	45-136	5	20				
Batch number: 110560015A	Sample number(s): 6214501-6214504,6214506-6214508 UNSPK: 6214502								
m-Terphenyl	92	92	75-125	0	20				
o-Terphenyl	92	91	75-125	1	20				
p-Terphenyl	80	80	75-125	0	20				
Batch number: 110595711002	Sample number(s): 6214501-6214508 UNSPK: 6214502 BKG: 6214502								
Mercury	97	95	65-135	4	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 110615708002	Sample number(s): 6214501-6214508 UNSPK: 6214502 BKG: 6214502								
Aluminum	1032 (2)	1564 (2)	90-110	5	20	18,400	16,800	9	20
Boron	99	98	84-115	0	20	1.63 J	1.40 J	15 (1)	20
Calcium	116 (2)	117 (2)	75-125	0	20	1,830	1,720	6	20
Iron	-1114 (2)	-630 (2)	75-125	2	20	21,300	19,100	11	20
Lithium	102	101	82-114	1	20	19.9	19.2	3	20
Magnesium	196 (2)	231 (2)	75-125	1	20	4,190	4,080	3	20
Manganese	143*	147*	75-125	1	20	167	173	3	20
Phosphorus	114	107	75-125	3	20	131	130	0	20
Potassium	145*	144*	75-125	0	20	1,630	1,690	4	20
Sodium	99	99	75-125	0	20	187	181	3 (1)	20
Strontium	96	97	75-115	0	20	18.4	16.3	12	20
Tin	89	88	80-110	1	20	2.68 J	2.67 J	1 (1)	20
Titanium	251 (2)	246 (2)	75-125	0	20	1,200	1,150	4	20
Zirconium	99	97	75-125	2	20	1.37 J	1.83 J	29* (1)	20
Batch number: 110631026002A	Sample number(s): 6214501-6214508 UNSPK: 6214502 BKG: 6214502								
Antimony	86	60*	75-125	30*	20	0.145 J	0.143 J	1 (1)	20
Arsenic	266*	249*	75-125	3	20	5.19	5.35	3	20
Beryllium	141*	130*	75-125	5	20	0.590	0.544	8	20
Cadmium	156*	139*	75-125	11	20	0.0576 J	0.0704 J	20 (1)	20
Chromium	229*	181*	75-125	11	20	22.4	22.6	1	20
Cobalt	137*	120	75-125	12	20	4.39	4.11	7	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Lead	231*	201*	75-125	7	20	6.00	5.53	8	20
Nickel	182*	141*	75-125	15	20	11.1	10.8	2	20
Silver	145*	133*	75-125	9	20	0.0247 J	0.0229 J	8 (1)	20
Thallium	179*	149*	75-125	13	20	0.237	0.239	1 (1)	20
Vanadium	309 (2)	236 (2)	75-125	11	20	40.7	40.4	1	20
Zinc	304 (2)	234 (2)	75-125	10	20	45.6	44.5	2	20
Batch number: 110631026002B	Sample number(s): 6214501-6214508 UNSPK: 6214502 BKG: 6214502								
Selenium	135*	123	75-125	9	20	0.180 J	0.151 J	17 (1)	20
Batch number: 110631026002C	Sample number(s): 6214501-6214508 UNSPK: 6214502 BKG: 6214502								
Molybdenum	152*	135*	75-125	12	20	0.531	0.479	10 (1)	20
Batch number: 110631026002D	Sample number(s): 6214501-6214508 UNSPK: 6214502 BKG: 6214502								
Barium	509 (2)	250 (2)	75-125	20	20	87.6	81.0	8	20
Batch number: 110671026001A	Sample number(s): 6214501-6214508 UNSPK: 6214502 BKG: 6214502								
Copper	104	79	75-125	16	20	7.28	8.61	17	20
Batch number: 11056243201A	Sample number(s): 6214501-6214503,6214505-6214508 UNSPK: 6214502 BKG: 6214502								
3a Cr VI by EPA 7199	97		75-125			0.42 J	0.50 J	17 (1)	20
Batch number: 11061495201A	Sample number(s): 6214501-6214503,6214505-6214508 UNSPK: 6214501 BKG: 6214501								
7a Perchlorate EPA 314.0	98		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11063102201A	Sample number(s): 6214501-6214503,6214505-6214508 UNSPK: 6214502 BKG: 6214502								
21a Cyanide by 9012B	105		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11066621201A	Sample number(s): 6214501-6214503,6214505-6214508 UNSPK: 6214502 BKG: 6214502								
11a Anions by 300.0 - Fluoride	39*		80-120			1.3	1.6	20 (1)	20
11a Anions by 300.0 - Nitrate	94		80-120			1.2 J	1.2 J	1 (1)	20
Batch number: 11056039401A	Sample number(s): 6214501-6214502,6214505-6214508 BKG: 6214502								
22a pH by 9045C						6.74	6.55	3*	1
Batch number: 11056182101A	Sample number(s): 6214501-6214502,6214505-6214508 BKG: 6214502								
32a OR Potential						347	360	4	6
Batch number: 11069162401A	Sample number(s): 6214501-6214508 BKG: 6214502								
28a Moisture Content by 160.3						6.2	6.6	6	20
28a Moisture Content by 160.3						6.2	6.6	6	20
28a Moisture Content by 160.3						6.2	6.6	6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110561AA

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6214501	102	102	100	96
6214502	98	98	99	94
6214503	99	102	100	98
6214504	99	101	100	97
6214506	96	95	100	94
6214507	97	96	100	94
6214508	98	100	97	94
Blank	101	106	97	96
LCS	101	104	100	98
MS	99	102	100	98
MSD	99	101	100	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110551AA

	Toluene-d8
6214509	97
Blank	97
LCS	100
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110561AA

	Toluene-d8
6214501	98
6214502	98
6214503	98
6214504	97
6214506	97
6214507	98
6214508	98
Blank	99
LCS	98
LCSD	97
MS	98
MSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110591AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6214509	103	100	103	100
Blank	102	100	102	100
LCS	103	103	102	100
LCSD	103	103	103	101
Limits:	86-118	80-120	88-110	86-115

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Surrogate Quality Control

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11056SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6214501	82	72	90
6214502	85	77	93
6214503	88	79	93
6214504	89	79	90
6214506	80	72	87
6214507	79	73	94
6214508	88	82	97
Blank	98	90	108
LCS	95	84	95
MS	88	79	93
MSD	89	79	90
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11057SLB026

	N-Nitrosodimethylamine-d6
6214501	74
6214502	81
6214503	78
6214504	83
6214506	59
6214507	66
6214508	57
Blank	81
LCS	85
MS	78
MSD	83
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11059SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6214501	80	86	87	79	91	90
6214502	66	71	70	65	73	66
6214503	82	90	97	85	98	82
6214504	79	84	90	80	91	87
6214506	75	82	75	78	87	91
6214507	75	82	79	78	87	88
6214508	79	86	81	78	92	90
Blank	84	91	102	87	97	102
LCS	52	56	59	51	58	55
MS	82	90	97	85	98	82
MSD	79	84	90	80	91	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11059F20A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11060A34A

	Trifluorotoluene-F
6214509	83
Blank	83
LCS	101
LCSD	105
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11060A34A

	Trifluorotoluene-F
6214501	107
6214502	107
6214503	109
6214504	107
6214506	103
6214507	102
6214508	109
Blank	83
LCS	88
MS	109
MSD	107
Limits:	61-122

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110570003A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6214501	90	96
6214502	83	93
6214503	88	86
6214504	84	101
6214506	91	89
6214507	88	93
6214508	100	93
Blank	89	120
LCS	82	99
LCSD	85	90
MS	88	86
MSD	84	101
Limits:	53-139	45-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110590006A

	Butyraldehyde
6214501	119
6214502	126
6214503	127*
6214504	110
6214506	120
6214507	90
6214508	105

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**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Surrogate Quality Control

Blank	98
LCS	136*
MS	127*
MSD	110

Limits: 64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110600010A

2-Nitro-m-xylene

6214501	121
6214502	122
6214503	126
6214504	116
6214506	116
6214507	123
6214508	120
Blank	121
LCS	114
LCSD	108
MS	126
MSD	116

Limits: 80-146

Analysis Name: 27a Glycols by 8015B
Batch number: 110560008A

Tetramethylene glycol

6214501	56
6214502	78
6214503	100
6214504	83
6214506	27*
6214507	43
6214508	51
Blank	96
LCS	99
MS	100
MSD	83

Limits: 29-137

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110560015A

n-Triacontane-d62

6214501	73
6214502	76
6214503	72
6214504	75
6214506	76
6214507	81
6214508	74
Blank	84
LCS	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234465
Reported: 03/18/11 at 02:20 PM

Surrogate Quality Control

MS	72	
MSD	75	
Limits:	50-150	

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110560016A

	Chlorobenzene	Orthoterphenyl
6214501	70	87
6214502	63	88
6214503	74	95
6214504	68	91
6214506	70	86
6214507	71	90
6214508	74	93
Blank	66	96
LCS	79	101
MS	74	95
MSD	68	91
Limits:	37-125	47-145

Analysis Name: 25a Alcohols by 8015B
Batch number: 110560023A

	Acetone
6214501	88
6214502	87
6214503	88
6214504	84
6214506	87
6214507	84
6214508	99
Blank	100
LCS	100
MS	88
MSD	84
Limits:	42-138

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap# 12324165 sample# 6214501-09

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Dan O'Brien for Pam Hartman																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
DUP-03-SA5A-QC-022311	2.23.2011	1031	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
DUP-03-SA5A-QC-022311	2.23.2011	1031	SOIL	NONE	5-Encores									X	X	X											
SL-036-SA5A-SB-4.0-5.0MS	2.23.2011	1025	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		MS/MSD sample
SL-036-SA5A-SB-4.5MS	2.23.2011	1020	SOIL	NONE	15-Encores									X	X	X											MS/MSD sample
SL-037-SA5A-SB-4.0-5.0	2.23.2011	1154	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-037-SA5A-SB-4.5	2.23.2011	1146	SOIL	NONE	5-Encores									X	X	X											
SL-040-SA5A-SB-4.0-5.0	2.23.2011	1526	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-040-SA5A-SB-4.5	2.23.2011	1522	SOIL	NONE	5-Encores									X	X	X											
SL-040-SA5A-SB-9.0-10.0	2.23.2011	1536	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-040-SA5A-SB-9.5	2.23.2011	1531	SOIL	NONE	5-Encores									X	X	X											
TB-022311	2.23.2011	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	02/23/2011 / 17:00		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	2/24/11 0850	8695 1432 3232; 8695 1432 3243 8695 1432 0120; 8700 5935 3804	No. of coolers = 4

ORIGINAL

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 19, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/24/2011
Group Number: 1234466
SDG: DX053
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-03-SA5A-QC-022311 Soil	6214510
SL-036-SA5A-SB-4.0-5.0 Soil	6214511
SL-036-SA5A-SB-4.0-5.0MS Soil	6214512
SL-036-SA5A-SB-4.0-5.0MSD Soil	6214513
SL-037-SA5A-SB-4.0-5.0 Soil	6214514
SL-040-SA5A-SB-4.0-5.0 Soil	6214515
SL-040-SA5A-SB-9.0-10.0 Soil	6214516

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-03-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5A-QC-022311

LLI Sample # SW 6214510
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:31

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5316 SDG#: DX053-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-03-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5A-QC-022311

LLI Sample # SW 6214510
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:31

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5316 SDG#: DX053-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0317 U	0.0317	1.06	1
11031	12378-PeCDD	40321-76-4	0.0565 JBQ	0.0276	5.28	1
11031	123478-HxCDD	39227-28-6	0.0435 JBQ	0.0182	5.28	1
11031	123678-HxCDD	57653-85-7	0.0560 JB	0.0189	5.28	1
11031	123789-HxCDD	19408-74-3	0.0638 JBQ	0.0181	5.28	1
11031	1234678-HpCDD	35822-46-9	0.184 JB	0.0220	5.28	1
11031	OCDD	3268-87-9	1.30 JB	0.0211	10.6	1
11031	2378-TCDF	51207-31-9	0.0325 U	0.0325	1.06	1
11031	12378-PeCDF	57117-41-6	0.0488 JBQ	0.0184	5.28	1
11031	23478-PeCDF	57117-31-4	0.0744 JBQ	0.0175	5.28	1
11031	123478-HxCDF	70648-26-9	0.0265 JB	0.0144	5.28	1
11031	123678-HxCDF	57117-44-9	0.0375 JBQ	0.0118	5.28	1
11031	123789-HxCDF	72918-21-9	0.0593 JB	0.0137	5.28	1
11031	234678-HxCDF	60851-34-5	0.0219 JBQ	0.0128	5.28	1
11031	1234678-HpCDF	67562-39-4	0.0450 JBQ	0.00665	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0431 JBQ	0.0120	5.28	1
11031	OCDF	39001-02-0	0.113 JBQ	0.0332	10.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	110	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP-03-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5A-QC-022311

LLI Sample # SW 6214510
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:31

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5316 SDG#: DX053-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP-03-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5A-QC-022311

LLI Sample # SW 6214510
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:31

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5316 SDG#: DX053-16FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 08:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214511
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX053-17BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214511
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX053-17BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0274 JB	0.0271	1.07	1
11031	12378-PeCDD	40321-76-4	0.0408 JBQ	0.0255	5.33	1
11031	123478-HxCDD	39227-28-6	0.0190 U	0.0190	5.33	1
11031	123678-HxCDD	57653-85-7	0.0690 JBQ	0.0195	5.33	1
11031	123789-HxCDD	19408-74-3	0.0984 JB	0.0183	5.33	1
11031	1234678-HpCDD	35822-46-9	0.250 JB	0.0227	5.33	1
11031	OCDD	3268-87-9	1.74 JB	0.0225	10.7	1
11031	2378-TCDF	51207-31-9	0.0363 JB	0.0275	1.07	1
11031	12378-PeCDF	57117-41-6	0.0296 JBQ	0.0170	5.33	1
11031	23478-PeCDF	57117-31-4	0.0727 JBQ	0.0166	5.33	1
11031	123478-HxCDF	70648-26-9	0.0426 JBQ	0.0122	5.33	1
11031	123678-HxCDF	57117-44-9	0.0409 JBQ	0.0101	5.33	1
11031	123789-HxCDF	72918-21-9	0.0633 JB	0.0114	5.33	1
11031	234678-HxCDF	60851-34-5	0.0199 JBQ	0.0102	5.33	1
11031	1234678-HpCDF	67562-39-4	0.0428 JBQ	0.00736	5.33	1
11031	1234789-HpCDF	55673-89-7	0.0411 JB	0.0128	5.33	1
11031	OCDF	39001-02-0	0.129 JBQ	0.0344	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-036-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214511
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX053-17BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214511
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX053-17BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 09:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214512
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX053-17MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214512
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX053-17MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.9	B	0.0405	1.07	1
11031	12378-PeCDD	40321-76-4	106	B	0.0488	5.33	1
11031	123478-HxCDD	39227-28-6	107	B	0.0353	5.33	1
11031	123678-HxCDD	57653-85-7	107	B	0.0353	5.33	1
11031	123789-HxCDD	19408-74-3	108	B	0.0344	5.33	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0491	5.33	1
11031	OCDD	3268-87-9	215	B	0.0372	10.7	1
11031	2378-TCDF	51207-31-9	20.8	B	0.0457	1.07	1
11031	12378-PeCDF	57117-41-6	103	B	0.0422	5.33	1
11031	23478-PeCDF	57117-31-4	105	B	0.0405	5.33	1
11031	123478-HxCDF	70648-26-9	106	B	0.0695	5.33	1
11031	123678-HxCDF	57117-44-9	107	B	0.0580	5.33	1
11031	123789-HxCDF	72918-21-9	104	B	0.0596	5.33	1
11031	234678-HxCDF	60851-34-5	108	B	0.0546	5.33	1
11031	1234678-HpCDF	67562-39-4	107	B	0.0542	5.33	1
11031	1234789-HpCDF	55673-89-7	108	B	0.0655	5.33	1
11031	OCDF	39001-02-0	216	B	0.0451	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214512
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX053-17MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214512
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX053-17MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 10:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-036-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214513
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX053-17MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214513
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX053-17MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.7	B	0.0382	1.07	1
11031	12378-PeCDD	40321-76-4	105	B	0.0402	5.33	1
11031	123478-HxCDD	39227-28-6	107	B	0.0401	5.33	1
11031	123678-HxCDD	57653-85-7	106	B	0.0407	5.33	1
11031	123789-HxCDD	19408-74-3	107	B	0.0361	5.33	1
11031	1234678-HpCDD	35822-46-9	106	B	0.0523	5.33	1
11031	OCDD	3268-87-9	213	B	0.0389	10.7	1
11031	2378-TCDF	51207-31-9	21.0	B	0.0467	1.07	1
11031	12378-PeCDF	57117-41-6	105	B	0.0408	5.33	1
11031	23478-PeCDF	57117-31-4	106	B	0.0390	5.33	1
11031	123478-HxCDF	70648-26-9	108	B	0.0890	5.33	1
11031	123678-HxCDF	57117-44-9	109	B	0.0706	5.33	1
11031	123789-HxCDF	72918-21-9	105	B	0.0552	5.33	1
11031	234678-HxCDF	60851-34-5	109	B	0.0566	5.33	1
11031	1234678-HpCDF	67562-39-4	107	B	0.0468	5.33	1
11031	1234789-HpCDF	55673-89-7	107	B	0.0452	5.33	1
11031	OCDF	39001-02-0	216	B	0.0635	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214513
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX053-17MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-036-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SB-4.0-5.0

LLI Sample # SW 6214513
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:25

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX053-17MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 14:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SB-4.0-5.0

LLI Sample # SW 6214514
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:54

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5318 SDG#: DX053-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-037-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SB-4.0-5.0

LLI Sample # SW 6214514
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:54

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5318 SDG#: DX053-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0468	JBQ	0.0284	1.13	1
11031	12378-PeCDD	40321-76-4	0.162	JBQ	0.0266	5.64	1
11031	123478-HxCDD	39227-28-6	0.128	JBQ	0.0244	5.64	1
11031	123678-HxCDD	57653-85-7	0.126	JBQ	0.0242	5.64	1
11031	123789-HxCDD	19408-74-3	0.177	JBQ	0.0224	5.64	1
11031	1234678-HpCDD	35822-46-9	0.318	JB	0.0225	5.64	1
11031	OCDD	3268-87-9	0.981	JB	0.0224	11.3	1
11031	2378-TCDF	51207-31-9	0.0483	JBQ	0.0284	1.13	1
11031	12378-PeCDF	57117-41-6	0.155	JB	0.0175	5.64	1
11031	23478-PeCDF	57117-31-4	0.212	JBQ	0.0176	5.64	1
11031	123478-HxCDF	70648-26-9	0.119	JB	0.0300	5.64	1
11031	123678-HxCDF	57117-44-9	0.153	JB	0.0202	5.64	1
11031	123789-HxCDF	72918-21-9	0.221	JB	0.0180	5.64	1
11031	234678-HxCDF	60851-34-5	0.154	JBQ	0.0175	5.64	1
11031	1234678-HpCDF	67562-39-4	0.138	JB	0.0118	5.64	1
11031	1234789-HpCDF	55673-89-7	0.234	JBQ	0.0163	5.64	1
11031	OCDF	39001-02-0	0.437	JB	0.0362	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-037-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SB-4.0-5.0

LLI Sample # SW 6214514
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:54

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5318 SDG#: DX053-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SB-4.0-5.0

LLI Sample # SW 6214514
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:54

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5318 SDG#: DX053-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 15:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-4.0-5.0

LLI Sample # SW 6214515
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:26

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5319 SDG#: DX053-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-4.0-5.0

LLI Sample # SW 6214515
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:26

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5319 SDG#: DX053-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0415 JBQ	0.0346	1.11	1
11031	12378-PeCDD	40321-76-4	0.0293 JBQ	0.0283	5.57	1
11031	123478-HxCDD	39227-28-6	0.0317 JBQ	0.0208	5.57	1
11031	123678-HxCDD	57653-85-7	0.0756 JBQ	0.0210	5.57	1
11031	123789-HxCDD	19408-74-3	0.0530 JB	0.0208	5.57	1
11031	1234678-HpCDD	35822-46-9	0.209 JBQ	0.0246	5.57	1
11031	OCDD	3268-87-9	0.623 JB	0.0287	11.1	1
11031	2378-TCDF	51207-31-9	0.0346 U	0.0346	1.11	1
11031	12378-PeCDF	57117-41-6	0.0424 JBQ	0.0177	5.57	1
11031	23478-PeCDF	57117-31-4	0.0721 JBQ	0.0191	5.57	1
11031	123478-HxCDF	70648-26-9	0.0569 JB	0.0169	5.57	1
11031	123678-HxCDF	57117-44-9	0.0429 JB	0.0135	5.57	1
11031	123789-HxCDF	72918-21-9	0.0646 JB	0.0162	5.57	1
11031	234678-HxCDF	60851-34-5	0.0324 JB	0.0143	5.57	1
11031	1234678-HpCDF	67562-39-4	0.0697 JB	0.00847	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0887 JB	0.0144	5.57	1
11031	OCDF	39001-02-0	0.210 JB	0.0452	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-4.0-5.0

LLI Sample # SW 6214515
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:26

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5319 SDG#: DX053-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-4.0-5.0

LLI Sample # SW 6214515
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:26

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5319 SDG#: DX053-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 15:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-9.0-10.0

LLI Sample # SW 6214516
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:36

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5320 SDG#: DX053-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-9.0-10.0

LLI Sample # SW 6214516
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:36

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5320 SDG#: DX053-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0322	U	0.0322	1.05	1
11031	12378-PeCDD	40321-76-4	0.0270	U	0.0270	5.27	1
11031	123478-HxCDD	39227-28-6	0.0298	JB	0.0202	5.27	1
11031	123678-HxCDD	57653-85-7	0.0369	JB	0.0208	5.27	1
11031	123789-HxCDD	19408-74-3	0.0292	JBQ	0.0195	5.27	1
11031	1234678-HpCDD	35822-46-9	0.185	JB	0.0247	5.27	1
11031	OCDD	3268-87-9	0.556	JB	0.0240	10.5	1
11031	2378-TCDF	51207-31-9	0.0280	U	0.0280	1.05	1
11031	12378-PeCDF	57117-41-6	0.0370	JBQ	0.0169	5.27	1
11031	23478-PeCDF	57117-31-4	0.0699	JBQ	0.0162	5.27	1
11031	123478-HxCDF	70648-26-9	0.0454	JBQ	0.0192	5.27	1
11031	123678-HxCDF	57117-44-9	0.0565	JBQ	0.0139	5.27	1
11031	123789-HxCDF	72918-21-9	0.0641	JBQ	0.0149	5.27	1
11031	234678-HxCDF	60851-34-5	0.0530	JB	0.0132	5.27	1
11031	1234678-HpCDF	67562-39-4	0.375	JB	0.0153	5.27	1
11031	1234789-HpCDF	55673-89-7	0.0910	JBQ	0.0201	5.27	1
11031	OCDF	39001-02-0	0.600	JB	0.0408	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	57	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	70	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-9.0-10.0

LLI Sample # SW 6214516
LLI Group # 1234466
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 15:36

Submitted: 02/24/2011 08:50
Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5320 SDG#: DX053-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SB-9.0-10.0

LLI Sample # SW 6214516
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Project Name: SSFL Area IV Collocated Soil Sampling

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Reported: 03/19/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5320 SDG#: DX053-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11057001	03/05/2011 16:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11057001	02/26/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11069162401A	03/10/2011 18:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234466
Reported: 03/19/11 at 11:03 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11069162401A	Sample number(s): 6214510-6214516								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11057001	Sample number(s): 6214510-6214516								
2378-TCDD	0.0468 J	0.0287	1.00	ng/kg	92		67-158		
12378-PeCDD	0.118 J	0.0255	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0590 J	0.0234	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0797 J	0.0241	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0674 J	0.0228	5.00	ng/kg	98		64-162		
1234678-HpCDD	0.159 J	0.0271	5.00	ng/kg	97		70-140		
OCDD	0.371 J	0.0222	10.0	ng/kg	99		78-144		
2378-TCDF	0.0703 J	0.0325	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0756 J	0.0194	5.00	ng/kg	94		80-134		
23478-PeCDF	0.103 J	0.0199	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0857 J	0.0202	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0722 J	0.0163	5.00	ng/kg	102		84-130		
123789-HxCDF	0.111 J	0.0168	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0746 J	0.0150	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.0843 J	0.0125	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.0903 J	0.0140	5.00	ng/kg	101		78-138		
OCDF	0.219 J	0.0355	10.0	ng/kg	102		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11069162401A	Sample number(s): 6214510-6214516 BKG: P214502								
Moisture Content by 160.3						6.2	6.6	6	20
Batch number: 11057001	Sample number(s): 6214510-6214516 UNSPK: 6214511								
2378-TCDD	93	97	67-158	4	25				
12378-PeCDD	100	99	70-142	1	25				
123478-HxCDD	100	100	70-164	0	25				
123678-HxCDD	100	99	76-134	1	25				
123789-HxCDD	101	100	64-162	1	25				
1234678-HpCDD	99	99	70-140	1	25				
OCDD	100	99	78-144	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234466
Reported: 03/19/11 at 11:03 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	98	98	75-158	1	25				
12378-PeCDF	97	98	80-134	2	25				
23478-PeCDF	99	100	68-160	1	25				
123478-HxCDF	99	101	72-134	2	25				
123678-HxCDF	100	102	84-130	2	25				
123789-HxCDF	98	99	78-130	1	25				
234678-HxCDF	102	102	70-156	0	25				
1234678-HpCDF	101	100	82-122	0	25				
1234789-HpCDF	101	100	78-138	1	25				
OCDF	101	101	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11057001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6214510	70	76	71	85	76	72
6214511	66	68	65	77	72	70
6214512	71	68	58	69	69	69
6214513	75	69	49	61	73	79
6214514	70	70	43	64	70	70
6214515	64	67	65	79	72	67
6214516	57	62	47	63	64	62
Blank	90	72	62	76	80	76
MS	71	68	58	69	69	69
MSD	75	69	49	61	73	79
OPR	90	73	58	73	69	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6214510	110	67	62	83	86	86
6214511	94	61	54	82	77	79
6214512	73	65	63	84	77	76
6214513	63	70	66	89	79	71
6214514	76	60	52	84	80	73
6214515	95	62	50	77	75	78
6214516	67	56	50	70	68	69
Blank	73	70	76	104	87	84
MS	73	65	63	84	77	76
MSD	63	70	66	89	79	71
OPR	73	55	52	112	91	80
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234466
Reported: 03/19/11 at 11:03 PM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6214510	86	87	87	92	64	83
6214511	80	81	78	78	60	75
6214512	77	75	74	74	64	74
6214513	75	80	75	78	69	76
6214514	78	79	78	77	61	80
6214515	81	81	76	75	60	78
6214516	69	68	66	65	57	69
Blank	86	86	84	91	79	81
MS	77	75	74	74	64	74
MSD	75	80	75	78	69	76
OPR	79	74	70	71	60	82
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap#1234466 sample#6214510-16

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Jason Rivera for Pam Hartman

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other instructions and Notes
DUP-03-SA5A-QC-022311	2.23.2011	1031	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
DUP-03-SA5A-QC-022311	2.23.2011	1031	SOIL	NONE	5-Encores									X	X	X											
SL-036-SA5A-SB-4.0-5.0MS	2.23.2011	1025	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	MS/MSD sample
SL-036-SA5A-SB-4.5MS	2.23.2011	1020	SOIL	NONE	15-Encores									X	X	X											MS/MSD sample
SL-037-SA5A-SB-4.0-5.0	2.23.2011	1154	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-037-SA5A-SB-4.5	2.23.2011	1146	SOIL	NONE	5-Encores									X	X	X											
SL-040-SA5A-SB-4.0-5.0	2.23.2011	1526	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-040-SA5A-SB-4.5	2.23.2011	1522	SOIL	NONE	5-Encores									X	X	X											
SL-040-SA5A-SB-9.0-10.0	2.23.2011	1536	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-040-SA5A-SB-9.5	2.23.2011	1531	SOIL	NONE	5-Encores									X	X	X											
TB-022311	2.23.2011	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature) Jason Rivera

Date/Time: 02/23/2011 / 17:00

Received for Laboratory by: (Signature)

Received by: (Signature)

Date/Time: 2/24/11 0850

Airbill No.(s): 8695 1432 3232; 8695 1432 3243
8695 1432 0120; 8700 5935 3804

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 4

ORIGINAL

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/24/2011
Group Number: 1234467
SDG: DE090
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-04-SA5A-QC-022311 Soil	6214517
SL-001-SA5A-SS-0.0-0.5 Soil	6214518
SL-002-SA5A-SS-0.0-0.5 Soil	6214519
SL-004-SA5A-SS-0.0-0.5 Soil	6214520
SL-004-SA5A-SS-0.0-0.5MS Soil	6214521
SL-004-SA5A-SS-0.0-0.5MSD Soil	6214522
SL-004-SA5A-SS-0.0-0.5DUP Soil	6214523
SL-006-SA5A-SS-0.0-0.5 Soil	6214524
SL-009-SA5A-SS-0.0-0.5 Soil	6214525
SL-010-SA5A-SS-0.0-0.5 Soil	6214526
SL-012-SA5A-SS-0.0-0.5 Soil	6214527
SL-013-SA5A-SS-0.0-0.5 Soil	6214528
SL-016-SA5A-SS-0.0-0.5 Soil	6214529
SL-017-SA5A-SS-0.0-0.5 Soil	6214530
SL-018-SA5A-SS-0.0-0.5 Soil	6214531
SL-019-SA5A-SS-0.0-0.5 Soil	6214532
EB01-SA5A-022311 Water	6214533

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-04-SA5A-QC-022311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5A-QC-022311

LLI Sample # SW 6214517
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9001 SDG#: DE090-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: DUP-04-SA5A-QC-022311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5A-QC-022311

LLI Sample # SW 6214517
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9001 SDG#: DE090-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.9		0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	7.5		0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	6.5		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	5.0		0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Chrysene	218-01-9	4.6		0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.9		0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.6	20	1
10138	Fluoranthene	206-44-0	1.3	J	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.5		0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	23		6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	1.9		0.73	1.8	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 8.4 ug/kg
di-n-octylphthalate 7.1 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	260	J	84	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1

MCPP was detected in the method blank at a concentration of 140 ug/kg.
Also, the LCS recovery for 2,4,5-T is outside the QC limits.

Sample Description: **DUP-04-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5A-QC-022311

LLI Sample # SW 6214517
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9001 SDG#: DE090-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37	1
01363	p,p-DDE	72-55-9	0.11	U	0.11	0.37	1
01363	p,p-DDT	50-29-3	0.61	U	0.61	0.61	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.19	U	0.19	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37	1
01363	Endrin	72-20-8	0.073	U	0.073	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.37	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18	5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18	5
10225	Aroclor 5460	11126-42-4	51		5.5	18	5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.4	5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.4	5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.4	5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.4	5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.4	5
10225	PCB-1254	11097-69-1	45		1.8	9.4	5
10225	PCB-1260	11096-82-5	2.2	U	2.2	9.4	5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.4	5

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-04-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5A-QC-022311

LLI Sample # SW 6214517
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9001 SDG#: DE090-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	47		1.8	9.4	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		5.36	21.3	1
07914	Boron	7440-42-8	3.26	J	0.948	5.32	1
01650	Calcium	7440-70-2	3,280		6.53	21.3	1
01654	Iron	7439-89-6	19,600		5.02	21.3	1
01656	Lithium	7439-93-2	22.5		0.23	2.1	1
01657	Magnesium	7439-95-4	4,410		2.70	10.6	1
06958	Manganese	7439-96-5	282		0.0831	0.532	1
10145	Phosphorus	7723-14-0	389		0.596	10.6	1
01662	Potassium	7440-09-7	3,130		19.2	53.2	1
01667	Sodium	7440-23-5	86.1	J	39.7	106	1
07968	Strontium	7440-24-6	17.4		0.0660	0.532	1
06969	Tin	7440-31-5	2.79	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,190		0.405	1.06	1
10146	Zirconium	7440-67-7	2.36	J	0.894	5.32	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.133	J	0.0651	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.88		0.0869	0.434	2
06126	Barium	7440-39-3	99.6		0.117	0.434	2
06127	Beryllium	7440-41-7	0.499		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.204		0.0434	0.109	2
06131	Chromium	7440-47-3	15.9		0.130	0.434	2
06132	Cobalt	7440-48-4	5.15		0.0217	0.109	2
06133	Copper	7440-50-8	7.36		0.0724	0.439	2
06135	Lead	7439-92-1	8.66		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.408		0.0543	0.109	2
06139	Nickel	7440-02-0	9.57		0.109	0.434	2
06141	Selenium	7782-49-2	0.107	J	0.0434	0.434	2
06142	Silver	7440-22-4	0.0302	J	0.0130	0.109	2
06145	Thallium	7440-28-0	0.237		0.0326	0.109	2
06148	Vanadium	7440-62-2	27.7		0.0241	0.110	2
06149	Zinc	7440-66-6	82.8		0.608	3.26	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0379	J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-04-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5A-QC-022311

LLI Sample # SW 6214517
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9001 SDG#: DE090-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	380		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.04		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.7		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 07:34	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 11:28	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/07/2011 21:12	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 17:02	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/15/2011 04:14	Richard A Shober	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 14:57	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 15:31	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 15:31	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 14:57	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 15:31	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-04-SA5A-QC-022311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5A-QC-022311

LLI Sample # SW 6214517
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9001 SDG#: DE090-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 15:31	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 14:57	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 15:31	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 15:31	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 15:31	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 14:57	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 14:57	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 15:31	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 14:57	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/09/2011 23:50	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/09/2011 23:50	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/09/2011 23:50	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/09/2011 23:50	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/09/2011 23:50	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/09/2011 23:50	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/10/2011 23:59	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:17	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/09/2011 23:50	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/09/2011 23:50	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/09/2011 23:50	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/09/2011 23:50	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/09/2011 23:50	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/09/2011 23:50	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:17	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/09/2011 23:50	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 07:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201A	03/08/2011 12:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201A	03/03/2011 20:37	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11060243201A	03/02/2011 15:05	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201A	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201A	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101A	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401A	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SS-0.0-0.5

LLI Sample # SW 6214518
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:53

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9002 SDG#: DE090-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SS-0.0-0.5

LLI Sample # SW 6214518
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:53

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9002 SDG#: DE090-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	84	U	84	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1

MCPP was detected in the method blank at a concentration of 140 ug/kg.
Also, the LCS recovery for 2,4,5-T is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SS-0.0-0.5

LLI Sample # SW 6214518
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:53

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9002 SDG#: DE090-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37	1
01363	p,p-DDE	72-55-9	1.8	U	1.8	1.8	1
01363	p,p-DDT	50-29-3	4.0		0.36	1.9	5
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	1.3	U	1.3	1.3	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37	1
01363	Endrin	72-20-8	0.073	U	0.073	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.37	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.45	U	0.45	0.45	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	12		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	31		0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SS-0.0-0.5

LLI Sample # SW 6214518
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:53

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9002 SDG#: DE090-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	12		0.37	1.9	1
	The DCB surrogate data is outside the QC limits due to presence of PCB-1268.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,800		5.47	21.7	1
07914	Boron	7440-42-8	2.96	J	0.967	5.43	1
01650	Calcium	7440-70-2	2,920		6.66	21.7	1
01654	Iron	7439-89-6	19,200		5.12	21.7	1
01656	Lithium	7439-93-2	20.5		0.24	2.2	1
01657	Magnesium	7439-95-4	4,380		2.76	10.9	1
06958	Manganese	7439-96-5	309		0.0848	0.543	1
10145	Phosphorus	7723-14-0	403		0.609	10.9	1
01662	Potassium	7440-09-7	3,280		19.6	54.3	1
01667	Sodium	7440-23-5	81.6	J	40.5	109	1
07968	Strontium	7440-24-6	19.1		0.0674	0.543	1
06969	Tin	7440-31-5	2.89	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,190		0.413	1.09	1
10146	Zirconium	7440-67-7	2.05	J	0.913	5.43	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.232		0.0659	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.19		0.0878	0.439	2
06126	Barium	7440-39-3	108		0.119	0.439	2
06127	Beryllium	7440-41-7	0.518		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.452		0.0439	0.110	2
06131	Chromium	7440-47-3	16.3		0.132	0.439	2
06132	Cobalt	7440-48-4	4.96		0.0220	0.110	2
06133	Copper	7440-50-8	11.4		0.0710	0.431	2
06135	Lead	7439-92-1	10.1		0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.583		0.0549	0.110	2
06139	Nickel	7440-02-0	10.1		0.110	0.439	2
06141	Selenium	7782-49-2	0.102	J	0.0439	0.439	2
06142	Silver	7440-22-4	0.0393	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.268		0.0329	0.110	2
06148	Vanadium	7440-62-2	34.9		0.0237	0.108	2
06149	Zinc	7440-66-6	175		0.615	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0302	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.89	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SS-0.0-0.5

LLI Sample # SW 6214518
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:53

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9002 SDG#: DE090-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	389		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.59		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.8		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 07:59	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 12:00	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/07/2011 21:39	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110600022A	03/02/2011 20:15	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 17:16	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/11/2011 10:49	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/12/2011 00:19	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SS-0.0-0.5

LLI Sample # SW 6214518
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:53

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9002 SDG#: DE090-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110600022A	03/02/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 15:06	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 15:34	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 15:34	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 15:06	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 15:34	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 15:34	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 15:06	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 15:34	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 15:34	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 15:34	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 15:06	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 15:06	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 15:34	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 15:06	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/09/2011 23:59	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/09/2011 23:59	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/09/2011 23:59	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/09/2011 23:59	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/09/2011 23:59	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/09/2011 23:59	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/11/2011 00:01	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:19	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/09/2011 23:59	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/09/2011 23:59	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/09/2011 23:59	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/09/2011 23:59	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/09/2011 23:59	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/09/2011 23:59	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:19	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/09/2011 23:59	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 07:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201A	03/08/2011 12:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201A	03/10/2011 02:27	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11060243201A	03/02/2011 15:17	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201A	03/07/2011 11:55	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SS-0.0-0.5

LLI Sample # SW 6214518
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:53

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9002 SDG#: DE090-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201A	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101A	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401A	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5A-SS-0.0-0.5

LLI Sample # SW 6214519
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:25

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9003 SDG#: DE090-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5A-SS-0.0-0.5

LLI Sample # SW 6214519
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:25

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9003 SDG#: DE090-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 8.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9	1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	84	U	84	280	1
10401	MCPP (Mecoprop)	93-65-2	600	U	600	600	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1

MCPP was detected in the method blank at a concentration of 140 ug/kg.
Also, the LCS recovery for 2,4,5-T is outside the QC limits.
Results from the reextraction are within the limits. The hold time had

Sample Description: **SL-002-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5A-SS-0.0-0.5

LLI Sample # SW 6214519
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:25

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9003 SDG#: DE090-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.70	U	0.70	0.70	1
01363	p,p-DDT	50-29-3	2.2	U	2.2	2.2	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.58	U	0.58	0.58	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.27	U	0.27	0.37	1
01363	Endrin Ketone	53494-70-5	0.19	U	0.19	0.37	1
01363	Heptachlor	76-44-8	1.2		0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.16	U	0.16	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram, the values reported for various compounds represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	14		1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5A-SS-0.0-0.5

LLI Sample # SW 6214519
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:25

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9003 SDG#: DE090-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	20		0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	11		0.36	1.9	1
	The DCB surrogate data is outside the QC limits due to presence of PCB-1268.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600		5.38	21.4	1
07914	Boron	7440-42-8	2.97	J	0.953	5.35	1
01650	Calcium	7440-70-2	5,350		6.56	21.4	1
01654	Iron	7439-89-6	19,300		5.04	21.4	1
01656	Lithium	7439-93-2	19.7		0.24	2.1	1
01657	Magnesium	7439-95-4	4,550		2.72	10.7	1
06958	Manganese	7439-96-5	282		0.0835	0.535	1
10145	Phosphorus	7723-14-0	473		0.599	10.7	1
01662	Potassium	7440-09-7	3,230		19.3	53.5	1
01667	Sodium	7440-23-5	174		39.9	107	1
07968	Strontium	7440-24-6	23.7		0.0664	0.535	1
06969	Tin	7440-31-5	2.85	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,200		0.407	1.07	1
10146	Zirconium	7440-67-7	1.41	J	0.899	5.35	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0655	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.03		0.0873	0.437	2
06126	Barium	7440-39-3	126		0.118	0.437	2
06127	Beryllium	7440-41-7	0.347		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.379		0.0437	0.109	2
06131	Chromium	7440-47-3	12.6		0.131	0.437	2
06132	Cobalt	7440-48-4	4.74		0.0218	0.109	2
06133	Copper	7440-50-8	9.28		0.0693	0.420	2
06135	Lead	7439-92-1	4.60		0.0114	0.218	2
06138	Molybdenum	7439-98-7	0.291		0.0546	0.109	2
06139	Nickel	7440-02-0	7.41		0.109	0.437	2
06141	Selenium	7782-49-2	0.0561	J	0.0437	0.437	2
06142	Silver	7440-22-4	0.0212	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.228		0.0327	0.109	2
06148	Vanadium	7440-62-2	29.7		0.0231	0.105	2
06149	Zinc	7440-66-6	85.9		0.611	3.27	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0642	J	0.0031	0.109	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-002-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5A-SS-0.0-0.5

LLI Sample # SW 6214519
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:25

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9003 SDG#: DE090-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	U	0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.72	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	384		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.37		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.3		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 08:24	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 12:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/07/2011 22:06	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 17:30	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/12/2011 00:38	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-002-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5A-SS-0.0-0.5

LLI Sample # SW 6214519
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:25

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9003 SDG#: DE090-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 15:10	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 15:38	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 15:38	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 15:10	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 15:38	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 15:38	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 15:10	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 15:38	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 15:38	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 15:38	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 15:10	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 15:10	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 15:38	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 15:10	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/10/2011 00:02	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/10/2011 00:02	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/10/2011 00:02	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/10/2011 00:02	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/10/2011 00:02	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/10/2011 00:02	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/11/2011 00:06	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:25	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/10/2011 00:02	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/10/2011 00:02	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/10/2011 00:02	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/10/2011 00:02	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/10/2011 00:02	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/10/2011 00:02	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:25	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/10/2011 00:02	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 07:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201A	03/08/2011 13:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201A	03/03/2011 21:25	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11060243201A	03/02/2011 15:23	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201A	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201A	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101A	02/25/2011 13:45	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-002-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5A-SS-0.0-0.5

LLI Sample # SW 6214519
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:25

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9003 SDG#: DE090-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401A	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-004-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214520
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214520
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	3.3		0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.6		0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.74	1.8	1
10138	Chrysene	218-01-9	2.6		0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	21		6.6	20	1
10138	Fluoranthene	206-44-0	1.7	J	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	J	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.98	J	0.74	1.8	1
10138	Pyrene	129-00-0	1.7	J	0.74	1.8	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 8.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	85	U	85	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19	1

MCPP was detected in the method blank at a concentration of 140 ug/kg.
Also, the LCS recovery for 2,4,5-T is outside the QC limits.
Results from the reextraction are within the limits. The hold time had

Sample Description: **SL-004-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214520
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.052	J	0.038	0.18	1
01363	Chlordane	57-74-9	2.2	U	2.2	3.8	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38	1
01363	p,p-DDE	72-55-9	0.30	U	0.30	0.38	1
01363	p,p-DDT	50-29-3	1.5		0.073	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.38	U	0.38	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.38	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.051	U	0.051	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.15	U	0.15	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram, the values reported for various compounds represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	8.2		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	12		0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214520
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	7.8		0.37	1.9	1
	The DCB surrogate data is outside the QC limits due to presence of PCB-1268.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.52	21.9	1
07914	Boron	7440-42-8	3.61	J	0.976	5.48	1
01650	Calcium	7440-70-2	3,370		6.72	21.9	1
01654	Iron	7439-89-6	21,300		5.17	21.9	1
01656	Lithium	7439-93-2	24.3		0.24	2.2	1
01657	Magnesium	7439-95-4	4,690		2.79	11.0	1
06958	Manganese	7439-96-5	325		0.0855	0.548	1
10145	Phosphorus	7723-14-0	460		0.614	11.0	1
01662	Potassium	7440-09-7	3,280		19.7	54.8	1
01667	Sodium	7440-23-5	91.4	J	40.9	110	1
07968	Strontium	7440-24-6	19.1		0.0680	0.548	1
06969	Tin	7440-31-5	2.96	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,240		0.417	1.10	1
10146	Zirconium	7440-67-7	1.96	J	0.921	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.178	J	0.0664	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.15		0.0886	0.443	2
06126	Barium	7440-39-3	109		0.120	0.443	2
06127	Beryllium	7440-41-7	0.549		0.0177	0.111	2
06128	Cadmium	7440-43-9	0.217		0.0443	0.111	2
06131	Chromium	7440-47-3	17.0		0.133	0.443	2
06132	Cobalt	7440-48-4	5.10		0.0221	0.111	2
06133	Copper	7440-50-8	7.78		0.0724	0.439	2
06135	Lead	7439-92-1	7.09		0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.397		0.0554	0.111	2
06139	Nickel	7440-02-0	10.8		0.111	0.443	2
06141	Selenium	7782-49-2	0.0750	J	0.0443	0.443	2
06142	Silver	7440-22-4	0.0318	J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.255		0.0332	0.111	2
06148	Vanadium	7440-62-2	33.0		0.0241	0.110	2
06149	Zinc	7440-66-6	86.1		0.620	3.32	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0398	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.89	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214520
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	293		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.95		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.6		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 06:19	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/02/2011 21:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/07/2011 19:49	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 17:45	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/12/2011 00:56	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214520
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 14:37	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 15:03	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 15:03	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 14:37	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 15:03	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 15:03	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 14:37	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 15:03	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 15:03	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 15:03	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 14:37	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 14:37	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 15:03	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 14:37	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/09/2011 23:31	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/09/2011 23:31	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/09/2011 23:31	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/09/2011 23:31	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/09/2011 23:31	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/09/2011 23:31	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/10/2011 23:48	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:06	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/09/2011 23:31	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/09/2011 23:31	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/09/2011 23:31	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/09/2011 23:31	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/09/2011 23:31	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/09/2011 23:31	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:06	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/09/2011 23:31	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 07:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201B	03/08/2011 13:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201B	03/03/2011 21:49	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11060243201A	03/02/2011 15:42	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201B	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201B	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101B	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401B	02/25/2011 13:45	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-004-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214520
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	2	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214521
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600	18	180	1
04688	Acenaphthylene	208-96-8	1,700	18	180	1
04688	Aniline	62-53-3	1,700	180	550	1
04688	Anthracene	120-12-7	1,600	18	180	1
04688	Benzidine	92-87-5	5,000	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,700	18	180	1
04688	Benzo(a)pyrene	50-32-8	1,500	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,400	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,500	18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,500	18	180	1
04688	Benzoic acid	65-85-0	800	180	550	1
04688	Benzyl alcohol	100-51-6	1,500	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700	18	180	1
04688	Butylbenzylphthalate	85-68-7	1,700	18	180	1
04688	Di-n-butylphthalate	84-74-2	1,700	18	180	1
04688	Carbazole	86-74-8	1,600	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	37	180	1
04688	4-Chloroaniline	106-47-8	880	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,400	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600	18	180	1
04688	2-Chloronaphthalene	91-58-7	1,600	18	180	1
04688	2-Chlorophenol	95-57-8	1,700	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600	37	180	1
04688	Chrysene	218-01-9	1,700	18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,500	18	180	1
04688	Dibenzofuran	132-64-9	1,700	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,500	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,500	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,500	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300	110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,700	18	180	1
04688	Diethylphthalate	84-66-2	1,700	18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,600	37	180	1
04688	3,5-Dimethylphenol	108-68-9	1,700	37	180	1
04688	Dimethylphthalate	131-11-3	1,600	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300	180	550	1
04688	2,4-Dinitrophenol	51-28-5	2,500	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,700	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,700	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,400	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	18	370	1
04688	Fluoranthene	206-44-0	1,600	18	180	1
04688	Fluorene	86-73-7	1,600	18	180	1
04688	Hexachlorobenzene	118-74-1	1,800	18	180	1
04688	Hexachlorobutadiene	87-68-3	1,700	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,500	180	550	1
04688	Hexachloroethane	67-72-1	1,400	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500	18	180	1
04688	Isophorone	78-59-1	1,500	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214521
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180	1
04688	2-Methylphenol	95-48-7	1,600	37	180	1
04688	4-Methylphenol	106-44-5	1,500	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	18	180	1
04688	2-Nitroaniline	88-74-4	1,600	18	180	1
04688	3-Nitroaniline	99-09-2	1,600	37	180	1
04688	4-Nitroaniline	100-01-6	1,200	74	180	1
04688	Nitrobenzene	98-95-3	1,500	18	180	1
04688	2-Nitrophenol	88-75-5	1,700	18	180	1
04688	4-Nitrophenol	100-02-7	1,200	180	550	1
04688	N-Nitrosodimethylamine	62-75-9	1,200	37	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,500	18	180	1
04688	Pentachlorophenol	87-86-5	1,200	180	550	1
04688	Phenanthrene	85-01-8	1,600	18	180	1
04688	Phenol	108-95-2	1,500	18	180	1
04688	Pyrene	129-00-0	1,700	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	37	180	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 22 ug/kg. The blank value was not subtracted from the analytical result.					
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	37	0.73	1.8	1
10138	Acenaphthylene	208-96-8	38	0.37	1.8	1
10138	Anthracene	120-12-7	39	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	47	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	54	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	53	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	55	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	47	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	83	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	51	6.6	20	1
10138	Chrysene	218-01-9	44	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	56	0.73	1.8	1
10138	Diethylphthalate	84-66-2	42	6.6	20	1
10138	Dimethylphthalate	131-11-3	40	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	160	6.6	20	1
10138	Fluoranthene	206-44-0	36	0.73	1.8	1
10138	Fluorene	86-73-7	34	0.73	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214521
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	55		0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	33		0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	30		0.73	1.8	1
10138	Naphthalene	91-20-3	33		0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	28		0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	57		6.6	20	1
10138	Phenanthrene	85-01-8	37		0.73	1.8	1
10138	Pyrene	129-00-0	44		0.73	1.8	1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 7.1 ug/kg
butylbenzylphthalate 7.2 ug/kg
bis(2-ethylhexyl)phthalate 8.4 ug/kg
di-n-octylphthalate 7.1 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.5		1.3	4.0	1
10401	Dalapon	75-99-0	7.4	J	4.9	10	1
10401	2,4-DB	94-82-6	5.9		0.69	1.9	1
10401	Dicamba	1918-00-9	0.68	J	0.45	1.3	1
10401	Dinoseb	88-85-7	1.4	J	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	8.8		0.89	1.9	1
10401	MCPA	94-74-6	580		85	280	1
10401	MCPP (Mecoprop)	93-65-2	500		84	280	1
10401	2,4,5-T	93-76-5	0.45		0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.65		0.084	0.19	1

MCPP was detected in the method blank at a concentration of 140 ug/kg.
Also, the LCS recovery for 2,4,5-T is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.26		0.074	0.19	1
01363	Alpha BHC	319-84-6	0.15	J	0.038	0.19	1
01363	Beta BHC	319-85-7	0.20		0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.19		0.038	0.19	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.34	J	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.49		0.074	0.38	1
01363	p,p-DDT	50-29-3	1.4		0.074	0.38	1
01363	Delta BHC	319-86-8	0.20		0.040	0.19	1
01363	Dieldrin	60-57-1	0.55		0.074	0.38	1
01363	Endosulfan I	959-98-8	0.11	J	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.48		0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.60		0.074	0.38	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214521
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Endrin	72-20-8	0.36	J	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.30	J	0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.20		0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.26		0.038	0.19	1
01363	Methoxychlor	72-43-5	1.8	J	0.38	1.8	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	12		1.1	3.7	1
10225	PCB-1016	12674-11-2	18		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	13		0.37	1.9	1
10225	PCB-1260	11096-82-5	27		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	9.1		0.37	1.9	1
	The DCB surrogate data is outside the QC limits due to presence of PCB-1268.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,700		5.46	21.7	1
07914	Boron	7440-42-8	216		0.967	5.43	1
01650	Calcium	7440-70-2	4,510		6.66	21.7	1
01654	Iron	7439-89-6	21,300		5.12	21.7	1
01656	Lithium	7439-93-2	130		0.24	2.2	1
01657	Magnesium	7439-95-4	5,040		2.76	10.9	1
06958	Manganese	7439-96-5	363		0.0847	0.543	1
10145	Phosphorus	7723-14-0	531		0.608	10.9	1
01662	Potassium	7440-09-7	4,220		19.5	54.3	1
01667	Sodium	7440-23-5	1,320		40.5	109	1
07968	Strontium	7440-24-6	131		0.0673	0.543	1
06969	Tin	7440-31-5	400		1.09	10.9	1
06970	Titanium	7440-32-6	1,420		0.413	1.09	1
10146	Zirconium	7440-67-7	104		0.912	5.43	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.703		0.0671	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.27		0.0895	0.447	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214521
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04MS

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium		7440-39-3	116	0.121	0.447	2
06127	Beryllium		7440-41-7	1.34	0.0179	0.112	2
06128	Cadmium		7440-43-9	1.37	0.0447	0.112	2
06131	Chromium		7440-47-3	25.7	0.134	0.447	2
06132	Cobalt		7440-48-4	52.4	0.0224	0.112	2
06133	Copper		7440-50-8	17.8	0.0731	0.443	2
06135	Lead		7439-92-1	9.51	0.0116	0.224	2
06138	Molybdenum		7439-98-7	11.9	0.0559	0.112	2
06139	Nickel		7440-02-0	19.7	0.112	0.447	2
06141	Selenium		7782-49-2	2.26	0.0447	0.447	2
06142	Silver		7440-22-4	11.5	0.0134	0.112	2
06145	Thallium		7440-28-0	0.670	0.0336	0.112	2
06148	Vanadium		7440-62-2	41.5	0.0244	0.111	2
06149	Zinc		7440-66-6	93.6	0.626	3.36	2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.215	0.0032	0.110	1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	9.9	0.89	1.1	1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	538	10.1	33.6	1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	36.7	1.1	5.6	5
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3		n.a.	10.6	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 06:44	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 10:23	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214521
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/07/2011 20:17	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 17:59	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/12/2011 01:15	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 14:46	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 15:13	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 15:13	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 14:46	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 15:13	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 15:13	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 14:46	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 15:13	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 15:13	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 15:13	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 14:46	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 14:46	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 15:13	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 14:46	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/09/2011 23:40	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/09/2011 23:40	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/09/2011 23:40	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/09/2011 23:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/09/2011 23:40	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/09/2011 23:40	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/10/2011 23:54	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:12	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/09/2011 23:40	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/09/2011 23:40	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/09/2011 23:40	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/09/2011 23:40	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/09/2011 23:40	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/09/2011 23:40	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:12	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/09/2011 23:40	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 07:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201B	03/08/2011 13:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201B	03/03/2011 22:38	Carrie E Miller	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-004-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214521
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11060243201A	03/02/2011 15:55	Carrie E Miller	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201B	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201B	03/03/2011 03:30	James S Mathiot	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	2	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214522
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500	18	180	1
04688	Acenaphthylene	208-96-8	1,600	18	180	1
04688	Aniline	62-53-3	1,700	180	550	1
04688	Anthracene	120-12-7	1,500	18	180	1
04688	Benzidine	92-87-5	4,600	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,600	18	180	1
04688	Benzo(a)pyrene	50-32-8	1,400	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,300	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,400	18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,300	18	180	1
04688	Benzoic acid	65-85-0	850	180	550	1
04688	Benzyl alcohol	100-51-6	1,400	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700	18	180	1
04688	Butylbenzylphthalate	85-68-7	1,600	18	180	1
04688	Di-n-butylphthalate	84-74-2	1,600	18	180	1
04688	Carbazole	86-74-8	1,500	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,400	37	180	1
04688	4-Chloroaniline	106-47-8	1,300	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,300	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500	18	180	1
04688	2-Chloronaphthalene	91-58-7	1,500	18	180	1
04688	2-Chlorophenol	95-57-8	1,600	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600	37	180	1
04688	Chrysene	218-01-9	1,500	18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,400	18	180	1
04688	Dibenzofuran	132-64-9	1,600	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,400	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,400	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,300	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500	110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,600	18	180	1
04688	Diethylphthalate	84-66-2	1,500	18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,500	37	180	1
04688	3,5-Dimethylphenol	108-68-9	1,500	37	180	1
04688	Dimethylphthalate	131-11-3	1,500	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300	180	550	1
04688	2,4-Dinitrophenol	51-28-5	2,100	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,600	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,600	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,400	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600	18	370	1
04688	Fluoranthene	206-44-0	1,500	18	180	1
04688	Fluorene	86-73-7	1,500	18	180	1
04688	Hexachlorobenzene	118-74-1	1,700	18	180	1
04688	Hexachlorobutadiene	87-68-3	1,600	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,200	180	550	1
04688	Hexachloroethane	67-72-1	1,300	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,400	18	180	1
04688	Isophorone	78-59-1	1,500	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214522
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,600	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,500	18	180	1
04688	2-Methylphenol	95-48-7	1,500	37	180	1
04688	4-Methylphenol	106-44-5	1,400	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,500	18	180	1
04688	2-Nitroaniline	88-74-4	1,500	18	180	1
04688	3-Nitroaniline	99-09-2	1,500	37	180	1
04688	4-Nitroaniline	100-01-6	1,300	74	180	1
04688	Nitrobenzene	98-95-3	1,400	18	180	1
04688	2-Nitrophenol	88-75-5	1,600	18	180	1
04688	4-Nitrophenol	100-02-7	1,100	180	550	1
04688	N-Nitrosodimethylamine	62-75-9	1,200	37	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,300	18	180	1
04688	Pentachlorophenol	87-86-5	1,100	180	550	1
04688	Phenanthrene	85-01-8	1,500	18	180	1
04688	Phenol	108-95-2	1,400	18	180	1
04688	Pyrene	129-00-0	1,500	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,600	37	180	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 22 ug/kg. The blank value was not subtracted from the analytical result.					
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	37	0.75	1.9	1
10138	Acenaphthylene	208-96-8	40	0.37	1.9	1
10138	Anthracene	120-12-7	40	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	45	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	57	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	54	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	41	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	56	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	61	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	49	6.7	20	1
10138	Chrysene	218-01-9	44	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	44	0.75	1.9	1
10138	Diethylphthalate	84-66-2	43	6.7	20	1
10138	Dimethylphthalate	131-11-3	42	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	90	6.7	20	1
10138	Fluoranthene	206-44-0	36	0.75	1.9	1
10138	Fluorene	86-73-7	36	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214522
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	42		0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	34		0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	31		0.75	1.9	1
10138	Naphthalene	91-20-3	34		0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	30		0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	59		6.7	20	1
10138	Phenanthrene	85-01-8	37		0.75	1.9	1
10138	Pyrene	129-00-0	37		0.75	1.9	1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 7.1 ug/kg
butylbenzylphthalate 7.2 ug/kg
bis(2-ethylhexyl)phthalate 8.4 ug/kg
di-n-octylphthalate 7.1 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.8		1.3	4.0	1
10401	Dalapon	75-99-0	7.8	J	4.9	10	1
10401	2,4-DB	94-82-6	4.7		0.69	1.9	1
10401	Dicamba	1918-00-9	0.68	J	0.45	1.3	1
10401	Dinoseb	88-85-7	1.5	J	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	9.0		0.89	1.9	1
10401	MCPA	94-74-6	680		85	280	1
10401	MCPP (Mecoprop)	93-65-2	480		84	280	1
10401	2,4,5-T	93-76-5	0.41		0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.54		0.084	0.19	1

MCPP was detected in the method blank at a concentration of 140 ug/kg.
Also, the LCS recovery for 2,4,5-T is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.13	J	0.038	0.18	1
01363	Beta BHC	319-85-7	0.19		0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.21		0.038	0.18	1
01363	Chlordane	57-74-9	0.88	U	0.88	3.8	1
01363	p,p-DDD	72-54-8	0.30	J	0.073	0.38	1
01363	p,p-DDE	72-55-9	0.45		0.073	0.38	1
01363	p,p-DDT	50-29-3	1.1		0.073	0.38	1
01363	Delta BHC	319-86-8	0.31		0.040	0.18	1
01363	Dieldrin	60-57-1	0.48		0.073	0.38	1
01363	Endosulfan I	959-98-8	0.091	J	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.45		0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.53		0.073	0.38	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214522
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Endrin	72-20-8	0.35	J	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.36	J	0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.37	J	0.073	0.38	1
01363	Heptachlor	76-44-8	0.35		0.067	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.22		0.038	0.18	1
01363	Methoxychlor	72-43-5	1.7	J	0.38	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	41		1.1	3.7	1
10225	PCB-1016	12674-11-2	19		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	55		0.37	1.9	1
10225	PCB-1260	11096-82-5	38		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	45		0.37	1.9	1
	The DCB surrogate data is outside the QC limits due to presence of PCB-1268.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		5.57	22.1	1
07914	Boron	7440-42-8	220		0.986	5.54	1
01650	Calcium	7440-70-2	3,620		6.79	22.1	1
01654	Iron	7439-89-6	18,000		5.22	22.1	1
01656	Lithium	7439-93-2	128		0.24	2.2	1
01657	Magnesium	7439-95-4	4,400		2.81	11.1	1
06958	Manganese	7439-96-5	336		0.0864	0.554	1
10145	Phosphorus	7723-14-0	498		0.620	11.1	1
01662	Potassium	7440-09-7	4,030		19.9	55.4	1
01667	Sodium	7440-23-5	1,160		41.3	111	1
07968	Strontium	7440-24-6	123		0.0687	0.554	1
06969	Tin	7440-31-5	399		1.11	11.1	1
06970	Titanium	7440-32-6	1,350		0.421	1.11	1
10146	Zirconium	7440-67-7	101		0.930	5.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.642		0.0664	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.05		0.0886	0.443	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214522
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	
06126	Barium	7440-39-3	118	0.120	0.443	2
06127	Beryllium	7440-41-7	1.38	0.0177	0.111	2
06128	Cadmium	7440-43-9	1.48	0.0443	0.111	2
06131	Chromium	7440-47-3	27.0	0.133	0.443	2
06132	Cobalt	7440-48-4	52.9	0.0221	0.111	2
06133	Copper	7440-50-8	18.2	0.0731	0.443	2
06135	Lead	7439-92-1	10.1	0.0115	0.221	2
06138	Molybdenum	7439-98-7	11.8	0.0554	0.111	2
06139	Nickel	7440-02-0	20.4	0.111	0.443	2
06141	Selenium	7782-49-2	2.18	0.0443	0.443	2
06142	Silver	7440-22-4	11.6	0.0133	0.111	2
06145	Thallium	7440-28-0	0.701	0.0332	0.111	2
06148	Vanadium	7440-62-2	42.2	0.0244	0.111	2
06149	Zinc	7440-66-6	99.7	0.620	3.32	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.214	0.0032	0.111	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 07:09	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 10:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/07/2011 20:44	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 18:13	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/12/2011 01:34	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 14:50	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214522
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 15:17	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 15:17	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 14:50	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 15:17	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 15:17	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 14:50	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 15:17	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 15:17	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 15:17	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 14:50	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 14:50	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 15:17	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 14:50	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/09/2011 23:43	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/09/2011 23:43	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/09/2011 23:43	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/09/2011 23:43	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/09/2011 23:43	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/09/2011 23:43	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/10/2011 23:56	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:13	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/09/2011 23:43	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/09/2011 23:43	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/09/2011 23:43	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/09/2011 23:43	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/09/2011 23:43	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/09/2011 23:43	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:13	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/09/2011 23:43	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 08:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	2	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5A-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214523
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.57	22.1	1
07914	Boron	7440-42-8	4.32	J	0.986	5.54	1
01650	Calcium	7440-70-2	3,110		6.79	22.1	1
01654	Iron	7439-89-6	21,300		5.22	22.1	1
01656	Lithium	7439-93-2	22.2		0.24	2.2	1
01657	Magnesium	7439-95-4	4,380		2.81	11.1	1
06958	Manganese	7439-96-5	306		0.0864	0.554	1
10145	Phosphorus	7723-14-0	376		0.620	11.1	1
01662	Potassium	7440-09-7	3,110		19.9	55.4	1
01667	Sodium	7440-23-5	89.4	J	41.3	111	1
07968	Strontium	7440-24-6	17.3		0.0687	0.554	1
06969	Tin	7440-31-5	2.92	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,200		0.421	1.11	1
10146	Zirconium	7440-67-7	2.00	J	0.930	5.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.148	J	0.0658	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.82		0.0877	0.439	2
06126	Barium	7440-39-3	96.6		0.118	0.439	2
06127	Beryllium	7440-41-7	0.510		0.0175	0.110	2
06128	Cadmium	7440-43-9	0.235		0.0439	0.110	2
06131	Chromium	7440-47-3	16.0		0.132	0.439	2
06132	Cobalt	7440-48-4	4.95		0.0219	0.110	2
06133	Copper	7440-50-8	8.62		0.0731	0.443	2
06135	Lead	7439-92-1	6.46		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.381		0.0548	0.110	2
06139	Nickel	7440-02-0	9.82		0.110	0.439	2
06141	Selenium	7782-49-2	0.0999	J	0.0439	0.439	2
06142	Silver	7440-22-4	0.0789	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.241		0.0329	0.110	2
06148	Vanadium	7440-62-2	33.3		0.0244	0.111	2
06149	Zinc	7440-66-6	84.7		0.614	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0400	J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.94	J	0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5A-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214523
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	304	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.99	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1
11626	28a Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 14:43	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 15:10	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 15:10	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 14:43	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 15:10	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 15:10	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 14:43	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 15:10	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 15:10	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 15:10	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 14:43	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 14:43	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 15:10	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 14:43	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/09/2011 23:37	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/09/2011 23:37	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/09/2011 23:37	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/09/2011 23:37	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/09/2011 23:37	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/09/2011 23:37	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/10/2011 23:52	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5A-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214523
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9004 SDG#: DE090-04DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:10	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/09/2011 23:37	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/09/2011 23:37	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/09/2011 23:37	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/09/2011 23:37	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/09/2011 23:37	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/09/2011 23:37	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:10	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/09/2011 23:37	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 07:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201B	03/08/2011 13:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201B	03/03/2011 22:13	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11060243201A	03/02/2011 16:32	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201B	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201B	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101B	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401B	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	2	11066162401A	03/07/2011 19:49	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	2	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-006-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SS-0.0-0.5

LLI Sample # SW 6214524
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:14

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9005 SDG#: DE090-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SS-0.0-0.5

LLI Sample # SW 6214524
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:14

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9005 SDG#: DE090-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Chrysene	218-01-9	0.53	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Phenanthrene	85-01-8	0.89	J	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 8.4 ug/kg
These blank values were not subtracted from the analytical results.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	86	U	86	280	1
10401	MCPP (Mecoprop)	93-65-2	270	J	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1

MCPP was detected in the method blank at a concentration of 140 ug/kg.
Also, the LCS recovery for 2,4,5-T is outside the QC limits.
Results from the reextraction are within the limits. The hold time had

Sample Description: **SL-006-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SS-0.0-0.5

LLI Sample # SW 6214524
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:14

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9005 SDG#: DE090-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.095	J	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.61		0.074	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.19	J	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.074	J	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		5.52	22.0	1
07914	Boron	7440-42-8	3.28	J	0.977	5.49	1
01650	Calcium	7440-70-2	3,050		6.73	22.0	1
01654	Iron	7439-89-6	20,500		5.17	22.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SS-0.0-0.5

LLI Sample # SW 6214524
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:14

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9005 SDG#: DE090-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	26.2		0.24	2.2	1
01657	Magnesium	7439-95-4	4,300		2.79	11.0	1
06958	Manganese	7439-96-5	282		0.0857	0.549	1
10145	Phosphorus	7723-14-0	169		0.615	11.0	1
01662	Potassium	7440-09-7	2,170		19.8	54.9	1
01667	Sodium	7440-23-5	119		41.0	110	1
07968	Strontium	7440-24-6	20.5		0.0681	0.549	1
06969	Tin	7440-31-5	3.05	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,180		0.417	1.10	1
10146	Zirconium	7440-67-7	1.80	J	0.923	5.49	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.154	J	0.0672	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.64		0.0896	0.448	2
06126	Barium	7440-39-3	101		0.121	0.448	2
06127	Beryllium	7440-41-7	0.643		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.161		0.0448	0.112	2
06131	Chromium	7440-47-3	16.8		0.134	0.448	2
06132	Cobalt	7440-48-4	4.72		0.0224	0.112	2
06133	Copper	7440-50-8	6.46		0.0725	0.439	2
06135	Lead	7439-92-1	5.11		0.0116	0.224	2
06138	Molybdenum	7439-98-7	0.446		0.0560	0.112	2
06139	Nickel	7440-02-0	10.6		0.112	0.448	2
06141	Selenium	7782-49-2	0.0557	J	0.0448	0.448	2
06142	Silver	7440-22-4	0.0430	J	0.0134	0.112	2
06145	Thallium	7440-28-0	0.222		0.0336	0.112	2
06148	Vanadium	7440-62-2	32.7		0.0242	0.110	2
06149	Zinc	7440-66-6	57.2		0.627	3.36	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	318		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SS-0.0-0.5

LLI Sample # SW 6214524
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:14

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9005 SDG#: DE090-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.81	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 08:49	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 13:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/07/2011 22:34	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 18:28	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/12/2011 01:52	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 15:13	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 15:41	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 15:41	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 15:13	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 15:41	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 15:41	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 15:13	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 15:41	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 15:41	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SS-0.0-0.5

LLI Sample # SW 6214524
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:14

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9005 SDG#: DE090-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 15:41	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 15:13	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 15:13	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 15:41	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 15:13	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/10/2011 00:05	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/10/2011 00:05	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/10/2011 00:05	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/10/2011 00:05	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/10/2011 00:05	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/10/2011 00:05	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/11/2011 00:08	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:26	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/10/2011 00:05	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/10/2011 00:05	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/10/2011 00:05	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/10/2011 00:05	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/10/2011 00:05	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/10/2011 00:05	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:26	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/10/2011 00:05	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 08:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201B	03/08/2011 13:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201B	03/03/2011 23:02	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11060243201A	03/02/2011 16:44	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201B	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201B	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101B	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401B	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5A-SS-0.0-0.5

LLI Sample # SW 6214525
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:25

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9006 SDG#: DE090-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5A-SS-0.0-0.5

LLI Sample # SW 6214525
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:25

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9006 SDG#: DE090-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	2.2		0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.7		0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.97	J	0.74	1.8	1
10138	Chrysene	218-01-9	1.8	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.6	20	1
10138	Fluoranthene	206-44-0	1.6	J	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	1.1	J	0.74	1.8	1
10138	Pyrene	129-00-0	2.0		0.74	1.8	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 8.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	3.5		0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	140	J	86	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.12	J	0.084	0.19	1

MCPP was detected in the method blank at a concentration of 140 ug/kg.
Also, the LCS recovery for 2,4,5-T is outside the QC limits.
Results from the reextraction are within the limits. The hold time had

Sample Description: **SL-009-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5A-SS-0.0-0.5

LLI Sample # SW 6214525
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:25

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9006 SDG#: DE090-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-TP.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.096	J	0.038	0.19	1
01363	Chlordane	57-74-9	1.8	U	1.8	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.11	J	0.074	0.38	1
01363	p,p-DDT	50-29-3	1.1		0.074	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.57		0.074	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.41		0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.53		0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Due to interfering peaks on the chromatogram, the values reported for technical chlordane represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	19	5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	19	5
10225	Aroclor 5460	11126-42-4	37		5.6	19	5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.6	5

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5A-SS-0.0-0.5

LLI Sample # SW 6214525
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:25

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9006 SDG#: DE090-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.6	5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.6	5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.6	5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6	5
10225	PCB-1254	11097-69-1	24		1.9	9.6	5
10225	PCB-1260	11096-82-5	2.2	U	2.2	9.6	5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6	5
10225	PCB-1268	11100-14-4	37		1.9	9.6	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000		5.55	22.1	1
07914	Boron	7440-42-8	3.41	J	0.983	5.52	1
01650	Calcium	7440-70-2	3,060		6.77	22.1	1
01654	Iron	7439-89-6	19,500		5.20	22.1	1
01656	Lithium	7439-93-2	20.6		0.24	2.2	1
01657	Magnesium	7439-95-4	4,090		2.80	11.0	1
06958	Manganese	7439-96-5	321		0.0861	0.552	1
10145	Phosphorus	7723-14-0	354		0.618	11.0	1
01662	Potassium	7440-09-7	3,110		19.9	55.2	1
01667	Sodium	7440-23-5	80.1	J	41.2	110	1
07968	Strontium	7440-24-6	21.0		0.0685	0.552	1
06969	Tin	7440-31-5	3.04	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,160		0.420	1.10	1
10146	Zirconium	7440-67-7	2.79	J	0.927	5.52	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.19		0.0656	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.29		0.0875	0.437	2
06126	Barium	7440-39-3	101		0.118	0.437	2
06127	Beryllium	7440-41-7	0.576		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.389		0.0437	0.109	2
06131	Chromium	7440-47-3	16.4		0.131	0.437	2
06132	Cobalt	7440-48-4	4.93		0.0219	0.109	2
06133	Copper	7440-50-8	8.80		0.0715	0.433	2
06135	Lead	7439-92-1	7.03		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.450		0.0547	0.109	2
06139	Nickel	7440-02-0	10.2		0.109	0.437	2
06141	Selenium	7782-49-2	0.0853	J	0.0437	0.437	2
06142	Silver	7440-22-4	0.0368	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.237		0.0328	0.109	2
06148	Vanadium	7440-62-2	29.4		0.0238	0.108	2
06149	Zinc	7440-66-6	309		1.53	8.20	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.259		0.0032	0.112	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5A-SS-0.0-0.5

LLI Sample # SW 6214525
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9006 SDG#: DE090-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.86	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	341		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.74		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.2		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 19:00	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 13:37	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/07/2011 23:02	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110600022A	03/02/2011 20:21	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 18:42	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/15/2011 04:32	Richard A Shober	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5A-SS-0.0-0.5

LLI Sample # SW 6214525
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:25

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14420 Albemarle Point Place
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E9006 SDG#: DE090-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110600022A	03/02/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 15:17	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 16:47	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 16:47	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 15:17	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 16:47	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 16:47	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 15:17	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 16:47	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 16:47	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 16:47	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 15:17	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 15:17	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 16:47	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 15:17	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/10/2011 00:08	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/10/2011 00:08	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/10/2011 00:08	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/10/2011 00:08	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/10/2011 00:08	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/10/2011 00:08	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/11/2011 00:10	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:28	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/10/2011 00:08	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/10/2011 00:08	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/10/2011 00:08	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/10/2011 00:08	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/10/2011 00:08	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/10/2011 00:08	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:28	David K Beck	2
06149	Zinc	SW-846 6020	1	110621026001A	03/10/2011 00:11	David K Beck	5
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 08:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201B	03/08/2011 14:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201B	03/03/2011 23:26	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11060243201A	03/02/2011 17:03	Carrie E Miller	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5A-SS-0.0-0.5

LLI Sample # SW 6214525
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:25

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9006 SDG#: DE090-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201B	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201B	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101B	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401B	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5A-SS-0.0-0.5

LLI Sample # SW 6214526
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:05

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9007 SDG#: DE090-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5A-SS-0.0-0.5

LLI Sample # SW 6214526
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:05

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9007 SDG#: DE090-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	84	U	84	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1

MCPP was detected in the method blank at a concentration of 140 ug/kg.
Also, the LCS recovery for 2,4,5-T is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5A-SS-0.0-0.5

LLI Sample # SW 6214526
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:05

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9007 SDG#: DE090-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	0.88	U	0.88	3.8	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38	1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38	1
01363	p,p-DDT	50-29-3	0.073	U	0.073	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.29	J	0.073	0.38	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.35	21.3	1
07914	Boron	7440-42-8	3.09	J	0.947	5.32	1
01650	Calcium	7440-70-2	2,640		6.52	21.3	1
01654	Iron	7439-89-6	20,100		5.01	21.3	1
01656	Lithium	7439-93-2	25.0		0.23	2.1	1
01657	Magnesium	7439-95-4	4,700		2.70	10.6	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5A-SS-0.0-0.5

LLI Sample # SW 6214526
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:05

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9007 SDG#: DE090-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	308		0.0830	0.532	1
10145	Phosphorus	7723-14-0	377		0.596	10.6	1
01662	Potassium	7440-09-7	2,060		19.1	53.2	1
01667	Sodium	7440-23-5	80.0	J	39.7	106	1
07968	Strontium	7440-24-6	17.5		0.0659	0.532	1
06969	Tin	7440-31-5	3.16	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,210		0.404	1.06	1
10146	Zirconium	7440-67-7	2.02	J	0.893	5.32	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.195	J	0.0651	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.51		0.0868	0.434	2
06126	Barium	7440-39-3	80.6		0.117	0.434	2
06127	Beryllium	7440-41-7	0.579		0.0174	0.108	2
06128	Cadmium	7440-43-9	0.142		0.0434	0.108	2
06131	Chromium	7440-47-3	21.1		0.130	0.434	2
06132	Cobalt	7440-48-4	5.53		0.0217	0.108	2
06133	Copper	7440-50-8	6.80		0.0716	0.434	2
06135	Lead	7439-92-1	5.29		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.453		0.0542	0.108	2
06139	Nickel	7440-02-0	12.7		0.108	0.434	2
06141	Selenium	7782-49-2	0.0768	J	0.0434	0.434	2
06142	Silver	7440-22-4	0.0181	J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.257		0.0325	0.108	2
06148	Vanadium	7440-62-2	35.9		0.0239	0.108	2
06149	Zinc	7440-66-6	55.9		0.607	3.25	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	382		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5A-SS-0.0-0.5

LLI Sample # SW 6214526
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:05

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9007 SDG#: DE090-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.24	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 16:04	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 14:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/08/2011 00:25	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 18:56	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/12/2011 02:29	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 15:20	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 16:51	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 16:51	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 15:20	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 16:51	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 16:51	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 15:20	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 16:51	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 16:51	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 16:51	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 15:20	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 15:20	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 16:51	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5A-SS-0.0-0.5

LLI Sample # SW 6214526
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:05

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9007 SDG#: DE090-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 15:20	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/10/2011 00:14	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/10/2011 00:14	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/10/2011 00:14	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/10/2011 00:14	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/10/2011 00:14	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/10/2011 00:14	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/11/2011 00:12	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:30	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/10/2011 00:14	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/10/2011 00:14	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/10/2011 00:14	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/10/2011 00:14	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/10/2011 00:14	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/10/2011 00:14	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:30	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/10/2011 00:14	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 08:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201B	03/08/2011 14:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201B	03/04/2011 00:14	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11060243201A	03/02/2011 17:15	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201B	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201B	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101B	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401B	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SS-0.0-0.5

LLI Sample # SW 6214527
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:27

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9008 SDG#: DE090-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200	1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SS-0.0-0.5

LLI Sample # SW 6214527
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:27

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9008 SDG#: DE090-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	20	U	20	200	1
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.8	5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	9.8	5
10138	Anthracene	120-12-7	2.0	U	2.0	9.8	5
10138	Benzo(a)anthracene	56-55-3	3.9	U	3.9	9.8	5
10138	Benzo(a)pyrene	50-32-8	5.9	J	3.9	9.8	5
10138	Benzo(b)fluoranthene	205-99-2	8.6	J	3.9	9.8	5
10138	Benzo(g,h,i)perylene	191-24-2	9.1	J	3.9	9.8	5
10138	Benzo(k)fluoranthene	207-08-9	3.9	U	3.9	9.8	5
10138	Chrysene	218-01-9	6.1	J	2.0	9.8	5
10138	Dibenz(a,h)anthracene	53-70-3	3.9	U	3.9	9.8	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46	J	35	110	5
10138	Fluoranthene	206-44-0	3.9	U	3.9	9.8	5
10138	Fluorene	86-73-7	3.9	U	3.9	9.8	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.9	U	3.9	9.8	5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.8	5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.8	5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.8	5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.8	5
10138	Phenanthrene	85-01-8	3.9	U	3.9	9.8	5
10138	Pyrene	129-00-0	3.9	U	3.9	9.8	5

Reporting limits were raised due to interference from the sample matrix.

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 8.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	0.74	U	0.74	2.0	1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4	1
10401	Dinoseb	88-85-7	0.95	U	0.95	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.95	U	0.95	2.0	1
10401	MCPA	94-74-6	90	U	90	300	1
10401	MCPP (Mecoprop)	93-65-2	580		89	300	1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20	1
10401	2,4,5-TP	93-72-1	0.089	U	0.089	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SS-0.0-0.5

LLI Sample # SW 6214527
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:27

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9008 SDG#: DE090-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	MCPP was detected in the method blank at a concentration of 140 ug/kg. Also, the LCS recovery for 2,4,5-T is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20	1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20	1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0	1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40	1
01363	p,p-DDE	72-55-9	0.078	U	0.078	0.40	1
01363	p,p-DDT	50-29-3	0.094	J	0.078	0.40	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.20	1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.14	J	0.078	0.40	1
01363	Endrin	72-20-8	0.078	U	0.078	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.084	J	0.078	0.40	1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40	1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0	1
01363	Mirex	2385-85-5	0.078	U	0.078	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	19		1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	2.7		0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	22		0.39	2.0	1
	The DCB surrogate data is outside the QC limits due to presence of PCB-1268.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SS-0.0-0.5

LLI Sample # SW 6214527
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:27

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9008 SDG#: DE090-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,500		5.91	23.5	1
07914	Boron	7440-42-8	5.92		1.05	5.88	1
01650	Calcium	7440-70-2	16,300		7.21	23.5	1
01654	Iron	7439-89-6	26,400		5.54	23.5	1
01656	Lithium	7439-93-2	24.6		0.26	2.4	1
01657	Magnesium	7439-95-4	6,700		2.99	11.8	1
06958	Manganese	7439-96-5	400		0.0917	0.588	1
10145	Phosphorus	7723-14-0	374		0.658	11.8	1
01662	Potassium	7440-09-7	3,440		21.2	58.8	1
01667	Sodium	7440-23-5	144		43.9	118	1
07968	Strontium	7440-24-6	33.2		0.0729	0.588	1
06969	Tin	7440-31-5	3.35	J	1.18	11.8	1
06970	Titanium	7440-32-6	1,310		0.447	1.18	1
10146	Zirconium	7440-67-7	4.42	J	0.988	5.88	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.208	J	0.0692	0.231	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.63		0.0922	0.461	2
06126	Barium	7440-39-3	96.4		0.125	0.461	2
06127	Beryllium	7440-41-7	0.754		0.0184	0.115	2
06128	Cadmium	7440-43-9	0.329		0.0461	0.115	2
06131	Chromium	7440-47-3	27.3		0.138	0.461	2
06132	Cobalt	7440-48-4	6.78		0.0231	0.115	2
06133	Copper	7440-50-8	10.1		0.0776	0.470	2
06135	Lead	7439-92-1	8.18		0.0120	0.231	2
06138	Molybdenum	7439-98-7	0.486		0.0577	0.115	2
06139	Nickel	7440-02-0	15.0		0.115	0.461	2
06141	Selenium	7782-49-2	0.110	J	0.0461	0.461	2
06142	Silver	7440-22-4	0.0404	J	0.0138	0.115	2
06145	Thallium	7440-28-0	0.281		0.0346	0.115	2
06148	Vanadium	7440-62-2	49.4		0.0259	0.118	2
06149	Zinc	7440-66-6	89.1		0.646	3.46	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.118	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6		0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.24	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SS-0.0-0.5

LLI Sample # SW 6214527
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:27

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9008 SDG#: DE090-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	403	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.82	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 16:29	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 14:42	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/08/2011 00:53	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 19:10	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/12/2011 02:48	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 15:23	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 16:54	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 16:54	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 15:23	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 16:54	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 16:54	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 15:23	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 16:54	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SS-0.0-0.5

LLI Sample # SW 6214527
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:27

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9008 SDG#: DE090-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 16:54	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 16:54	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 15:23	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 15:23	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 16:54	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 15:23	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/10/2011 00:17	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/10/2011 00:17	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/10/2011 00:17	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/10/2011 00:17	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/10/2011 00:17	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/10/2011 00:17	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/11/2011 00:14	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:32	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/10/2011 00:17	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/10/2011 00:17	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/10/2011 00:17	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/10/2011 00:17	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/10/2011 00:17	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/10/2011 00:17	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:32	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/10/2011 00:17	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 08:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201B	03/08/2011 14:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201B	03/04/2011 00:38	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11060243201A	03/02/2011 17:34	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201B	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201B	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101B	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401B	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SS-0.0-0.5

LLI Sample # SW 6214528
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:49

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9009 SDG#: DE090-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SS-0.0-0.5

LLI Sample # SW 6214528
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:49

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9009 SDG#: DE090-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 8.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	85	U	85	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19	1

MCPP was detected in the method blank at a concentration of 140 ug/kg.
Also, the LCS recovery for 2,4,5-T is outside the QC limits.
Results from the reextraction are within the limits. The hold time had

Sample Description: **SL-013-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SS-0.0-0.5

LLI Sample # SW 6214528
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:49

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9009 SDG#: DE090-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.082	J	0.074	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,700		5.66	22.5	1
07914	Boron	7440-42-8	3.52	J	1.00	5.62	1
01650	Calcium	7440-70-2	2,620		6.90	22.5	1
01654	Iron	7439-89-6	21,200		5.30	22.5	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SS-0.0-0.5

LLI Sample # SW 6214528
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:49

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9009 SDG#: DE090-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	24.7		0.25	2.2	1
01657	Magnesium	7439-95-4	4,380		2.86	11.2	1
06958	Manganese	7439-96-5	524		0.0877	0.562	1
10145	Phosphorus	7723-14-0	213		0.630	11.2	1
01662	Potassium	7440-09-7	2,310		20.2	56.2	1
01667	Sodium	7440-23-5	117		42.0	112	1
07968	Strontium	7440-24-6	21.0		0.0697	0.562	1
06969	Tin	7440-31-5	3.13	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,200		0.427	1.12	1
10146	Zirconium	7440-67-7	2.27	J	0.945	5.62	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.122	J	0.0662	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.33		0.0882	0.441	2
06126	Barium	7440-39-3	100		0.119	0.441	2
06127	Beryllium	7440-41-7	0.631		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.193		0.0441	0.110	2
06131	Chromium	7440-47-3	17.1		0.132	0.441	2
06132	Cobalt	7440-48-4	4.76		0.0221	0.110	2
06133	Copper	7440-50-8	6.73		0.0728	0.441	2
06135	Lead	7439-92-1	4.85		0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.470		0.0551	0.110	2
06139	Nickel	7440-02-0	10.7		0.110	0.441	2
06141	Selenium	7782-49-2	0.0544	J	0.0441	0.441	2
06142	Silver	7440-22-4	0.0395	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.258		0.0331	0.110	2
06148	Vanadium	7440-62-2	34.1		0.0243	0.110	2
06149	Zinc	7440-66-6	57.9		0.618	3.31	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	388		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SS-0.0-0.5

LLI Sample # SW 6214528
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:49

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9009 SDG#: DE090-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.86	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 16:54	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 15:13	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/08/2011 01:20	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 19:24	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/12/2011 03:07	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 15:27	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 16:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 16:58	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 15:27	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 16:58	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 16:58	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 15:27	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 16:58	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 16:58	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SS-0.0-0.5

LLI Sample # SW 6214528
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:49

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9009 SDG#: DE090-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 16:58	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 15:27	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 15:27	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 16:58	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 15:27	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/10/2011 00:20	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/10/2011 00:20	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/10/2011 00:20	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/10/2011 00:20	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/10/2011 00:20	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/10/2011 00:20	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/11/2011 00:15	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:33	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/10/2011 00:20	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/10/2011 00:20	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/10/2011 00:20	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/10/2011 00:20	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/10/2011 00:20	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/10/2011 00:20	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:33	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/10/2011 00:20	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 08:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201B	03/08/2011 14:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201B	03/04/2011 01:02	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11060243201A	03/02/2011 17:47	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201B	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201B	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101B	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401B	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401B	03/04/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5A-SS-0.0-0

LLI Sample # SW 6214529
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 08:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9010 SDG#: DE090-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzo(g,h,i)perylene	191-24-2	41	J	19	190	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Chrysene	218-01-9	41	J	19	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	41	J	19	380	1
04688	Fluoranthene	206-44-0	33	J	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5A-SS-0.0-0

LLI Sample # SW 6214529
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 08:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9010 SDG#: DE090-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	Pyrene	129-00-0	27	J	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 22 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.73	J	0.37	1.9	1
10138	Anthracene	120-12-7	1.5	J	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	4.2		0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	8.7		0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	2.7		0.75	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	1.9		0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.2		0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.95	J	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	3.4		0.75	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9	1
10401	MCPA	94-74-6	86	U	86	280	1
10401	MCPP (Mecoprop)	93-65-2	140	J	140	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.12	J	0.085	0.19	1
	MCPP was detected in the method blank at a concentration of 140 ug/kg. Also, the LCS recovery for 2,4,5-T is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the						

Sample Description: **SL-016-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5A-SS-0.0-0

LLI Sample # SW 6214529
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 08:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9010 SDG#: DE090-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	original extract. Similar results were obtained in both extracts. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8	1
01363	p,p-DDD	72-54-8	0.087	J	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.14	J	0.074	0.38	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5A-SS-0.0-0

LLI Sample # SW 6214529
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 08:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9010 SDG#: DE090-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		5.65	22.5	1
07914	Boron	7440-42-8	2.46	J	1.00	5.62	1
01650	Calcium	7440-70-2	2,270		6.89	22.5	1
01654	Iron	7439-89-6	21,200		5.29	22.5	1
01656	Lithium	7439-93-2	27.4		0.25	2.2	1
01657	Magnesium	7439-95-4	4,190		2.85	11.2	1
06958	Manganese	7439-96-5	332		0.0877	0.562	1
10145	Phosphorus	7723-14-0	351		0.629	11.2	1
01662	Potassium	7440-09-7	2,760		20.2	56.2	1
01667	Sodium	7440-23-5	81.7	J	41.9	112	1
07968	Strontium	7440-24-6	18.9		0.0697	0.562	1
06969	Tin	7440-31-5	3.68	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,160		0.427	1.12	1
10146	Zirconium	7440-67-7	2.32	J	0.944	5.62	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0674	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.55		0.0899	0.450	2
06126	Barium	7440-39-3	82.8		0.121	0.450	2
06127	Beryllium	7440-41-7	0.655		0.0180	0.112	2
06128	Cadmium	7440-43-9	0.659		0.0450	0.112	2
06131	Chromium	7440-47-3	18.4		0.135	0.450	2
06132	Cobalt	7440-48-4	4.57		0.0225	0.112	2
06133	Copper	7440-50-8	13.8		0.0749	0.454	2
06135	Lead	7439-92-1	6.41		0.0117	0.225	2
06138	Molybdenum	7439-98-7	0.447		0.0562	0.112	2
06139	Nickel	7440-02-0	12.5		0.112	0.450	2
06141	Selenium	7782-49-2	0.125	J	0.0450	0.450	2
06142	Silver	7440-22-4	0.0548	J	0.0135	0.112	2
06145	Thallium	7440-28-0	0.234		0.0337	0.112	2
06148	Vanadium	7440-62-2	34.3		0.0250	0.114	2
06149	Zinc	7440-66-6	273		1.57	8.43	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5A-SS-0.0-0

LLI Sample # SW 6214529
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 08:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9010 SDG#: DE090-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	403	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.09	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 17:19	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 15:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/08/2011 01:47	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 19:38	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/12/2011 03:25	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 15:30	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 17:08	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 17:08	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 15:30	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 17:08	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 17:08	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 15:30	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 17:08	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5A-SS-0.0-0

LLI Sample # SW 6214529
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 08:35

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9010 SDG#: DE090-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 17:08	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 17:08	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 15:30	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 15:30	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 17:08	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 15:30	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/10/2011 00:23	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/10/2011 00:23	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/10/2011 00:23	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/10/2011 00:23	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/10/2011 00:23	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/10/2011 00:23	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/11/2011 00:17	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:35	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/10/2011 00:23	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/10/2011 00:23	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/10/2011 00:23	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/10/2011 00:23	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/10/2011 00:23	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/10/2011 00:23	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:35	David K Beck	2
06149	Zinc	SW-846 6020	1	110621026001A	03/10/2011 00:26	David K Beck	5
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 08:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201B	03/08/2011 15:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201B	03/04/2011 01:26	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11060243201A	03/02/2011 17:59	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201B	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201B	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101B	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401B	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401B	03/04/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5A-SS-0.0-0.5

LLI Sample # SW 6214530
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:20

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9011 SDG#: DE090-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	19	J	18	180	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Chrysene	218-01-9	21	J	18	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Fluoranthene	206-44-0	19	J	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5A-SS-0.0-0.5

LLI Sample # SW 6214530
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:20

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9011 SDG#: DE090-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	19	J	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.39	J	0.37	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.7		0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.96	J	0.74	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.6	20	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	J	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 8.4 ug/kg These blank values were not subtracted from the analytical results.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	2.2	U	2.2	2.2	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	270	U	270	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1
	MCPP was detected in the method blank at a concentration of 140 ug/kg. Also, the LCS recovery for 2,4,5-T is outside the QC limits. Results from the reextraction are within the limits. The hold time had						

Sample Description: **SL-017-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5A-SS-0.0-0.5

LLI Sample # SW 6214530
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:20

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9011 SDG#: DE090-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	4.7	U	4.7	4.7	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37	1
01363	p,p-DDE	72-55-9	0.62	U	0.62	0.62	1
01363	p,p-DDT	50-29-3	1.1	U	1.1	1.1	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.40	U	0.40	0.40	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37	1
01363	Endrin	72-20-8	0.073	U	0.073	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.58	U	0.58	0.58	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	7.4		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	4.7		0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1

Sample Description: SL-017-SA5A-SS-0.0-0.5 Soil
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LLI Sample # SW 6214530
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:20

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

E9011 SDG#: DE090-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	3.2		0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.53	22.0	1
07914	Boron	7440-42-8	2.52	J	0.978	5.49	1
01650	Calcium	7440-70-2	3,150		6.74	22.0	1
01654	Iron	7439-89-6	20,300		5.18	22.0	1
01656	Lithium	7439-93-2	24.1		0.24	2.2	1
01657	Magnesium	7439-95-4	4,900		2.79	11.0	1
06958	Manganese	7439-96-5	303		0.0857	0.549	1
10145	Phosphorus	7723-14-0	405		0.615	11.0	1
01662	Potassium	7440-09-7	3,280		19.8	54.9	1
01667	Sodium	7440-23-5	77.2	J	41.0	110	1
07968	Strontium	7440-24-6	17.1		0.0681	0.549	1
06969	Tin	7440-31-5	3.09	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,260		0.418	1.10	1
10146	Zirconium	7440-67-7	2.00	J	0.923	5.49	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0640	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.60		0.0854	0.427	2
06126	Barium	7440-39-3	107		0.115	0.427	2
06127	Beryllium	7440-41-7	0.545		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.333		0.0427	0.107	2
06131	Chromium	7440-47-3	16.0		0.128	0.427	2
06132	Cobalt	7440-48-4	5.61		0.0213	0.107	2
06133	Copper	7440-50-8	11.6		0.0733	0.444	2
06135	Lead	7439-92-1	7.11		0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.434		0.0534	0.107	2
06139	Nickel	7440-02-0	10.0		0.107	0.427	2
06141	Selenium	7782-49-2	0.0919	J	0.0427	0.427	2
06142	Silver	7440-22-4	0.0251	J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.288		0.0320	0.107	2
06148	Vanadium	7440-62-2	32.0		0.0244	0.111	2
06149	Zinc	7440-66-6	99.2		0.598	3.20	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0210	J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
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LLI Sample # SW 6214530
LLI Group # 1234467
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14420 Albemarle Point Place
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E9011 SDG#: DE090-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	418		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.71		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 17:44	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 16:17	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/08/2011 02:15	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110600022A	03/02/2011 20:27	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 19:53	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/12/2011 03:44	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110600022A	03/02/2011 09:05	Maria Davenport	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
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LLI Sample # SW 6214530
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E9011 SDG#: DE090-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 15:34	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 17:12	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 17:12	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 15:34	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 17:12	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 17:12	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 15:34	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 17:12	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 17:12	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 17:12	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 15:34	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 15:34	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 17:12	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 15:34	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/10/2011 00:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/10/2011 00:36	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/10/2011 00:36	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/10/2011 00:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/10/2011 00:36	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/10/2011 00:36	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/11/2011 00:19	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:37	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/10/2011 00:36	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/10/2011 00:36	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/10/2011 00:36	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/10/2011 00:36	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/10/2011 00:36	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/10/2011 00:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:37	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/10/2011 00:36	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 08:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201B	03/08/2011 15:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201B	03/04/2011 01:50	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11060243201A	03/02/2011 18:05	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201B	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201B	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101B	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401B	02/25/2011 13:45	Michele L Graham	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-017-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5A-SS-0.0-0.5

LLI Sample # SW 6214530
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:20

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9011 SDG#: DE090-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401B	03/04/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5A-SS-0.0-0.5

LLI Sample # SW 6214531
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:05

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9012 SDG#: DE090-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5A-SS-0.0-0.5

LLI Sample # SW 6214531
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:05

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9012 SDG#: DE090-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.70	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.5		0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	3.4		0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	5.7		0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.0		0.74	1.8	1
10138	Chrysene	218-01-9	3.5		0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	21		6.7	20	1
10138	Fluoranthene	206-44-0	2.6		0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	3.3		0.74	1.8	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 8.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	0.89	U	0.89	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	130	U	130	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1

MCPP was detected in the method blank at a concentration of 140 ug/kg.
Also, the LCS recovery for 2,4,5-T is outside the QC limits.
Results from the reextraction are within the limits. The hold time had

Sample Description: **SL-018-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5A-SS-0.0-0.5

LLI Sample # SW 6214531
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:05

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9012 SDG#: DE090-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38	1
01363	p,p-DDE	72-55-9	0.085	U	0.085	0.38	1
01363	p,p-DDT	50-29-3	0.55	U	0.55	0.55	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.17	U	0.17	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.17	U	0.17	0.38	1
01363	Endrin	72-20-8	0.099	U	0.099	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.35	U	0.35	0.38	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.42	U	0.42	0.42	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits. Results from the reextraction are within the QC limits for TCX but outside the QC limits for DCB due to sample matrix. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	19		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5A-SS-0.0-0.5

LLI Sample # SW 6214531
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:05

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9012 SDG#: DE090-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	8.4		0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	15		0.37	1.9	1
	The DCB surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. The TCX surrogate data is outside the QC limits, due to the presence of PCB-1268.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.49	21.8	1
07914	Boron	7440-42-8	3.51	J	0.971	5.45	1
01650	Calcium	7440-70-2	3,170		6.68	21.8	1
01654	Iron	7439-89-6	19,800		5.14	21.8	1
01656	Lithium	7439-93-2	21.7		0.24	2.2	1
01657	Magnesium	7439-95-4	4,320		2.77	10.9	1
06958	Manganese	7439-96-5	303		0.0851	0.545	1
10145	Phosphorus	7723-14-0	387		0.611	10.9	1
01662	Potassium	7440-09-7	3,130		19.6	54.5	1
01667	Sodium	7440-23-5	80.8	J	40.7	109	1
07968	Strontium	7440-24-6	19.0		0.0676	0.545	1
06969	Tin	7440-31-5	2.96	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,140		0.414	1.09	1
10146	Zirconium	7440-67-7	1.97	J	0.916	5.45	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.183	J	0.0648	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.91		0.0864	0.432	2
06126	Barium	7440-39-3	99.2		0.117	0.432	2
06127	Beryllium	7440-41-7	0.495		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.275		0.0432	0.108	2
06131	Chromium	7440-47-3	15.8		0.130	0.432	2
06132	Cobalt	7440-48-4	4.79		0.0216	0.108	2
06133	Copper	7440-50-8	7.57		0.0727	0.441	2
06135	Lead	7439-92-1	6.09		0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.376		0.0540	0.108	2
06139	Nickel	7440-02-0	9.42		0.108	0.432	2
06141	Selenium	7782-49-2	0.0661	J	0.0432	0.432	2
06142	Silver	7440-22-4	0.0342	J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.230		0.0324	0.108	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5A-SS-0.0-0.5

LLI Sample # SW 6214531
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:05

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9012 SDG#: DE090-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	27.6	0.0242	0.110	2
06149	Zinc	7440-66-6	81.9	0.605	3.24	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0235 J	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.89	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	408	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.94	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 18:10	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 16:48	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5A-SS-0.0-0.5

LLI Sample # SW 6214531
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:05

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9012 SDG#: DE090-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/08/2011 02:43	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 20:07	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/12/2011 04:02	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 15:37	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 16:27	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 16:27	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 15:37	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 16:27	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 16:27	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 15:37	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 16:27	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 16:27	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 16:27	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 15:37	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 15:37	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 16:27	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 15:37	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/10/2011 00:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/10/2011 00:39	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/10/2011 00:39	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/10/2011 00:39	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/10/2011 00:39	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/10/2011 00:39	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/11/2011 00:21	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:39	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/10/2011 00:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/10/2011 00:39	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/10/2011 00:39	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/10/2011 00:39	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/10/2011 00:39	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/10/2011 00:39	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:39	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/10/2011 00:39	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 08:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-018-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5A-SS-0.0-0.5

LLI Sample # SW 6214531
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:05

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9012 SDG#: DE090-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201B	03/08/2011 16:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201B	03/04/2011 02:14	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11060243201A	03/02/2011 18:18	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201B	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201B	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101B	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401B	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401B	03/04/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-019-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5A-SS-0.0-0.5

LLI Sample # SW 6214532
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:10

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9013 SDG#: DE090-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	210	U	210	620	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100	1
04688	Benzo(a)anthracene	56-55-3	42	J	21	210	1
04688	Benzoic acid	65-85-0	210	U	210	620	1
04688	Benzyl alcohol	100-51-6	210	U	210	620	1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210	1
04688	Di-n-butylphthalate	84-74-2	21	U	21	210	1
04688	Carbazole	86-74-8	21	U	21	210	1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	210	1
04688	4-Chloroaniline	106-47-8	82	U	82	210	1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210	1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210	1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210	1
04688	2-Chlorophenol	95-57-8	21	U	21	210	1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	210	1
04688	Chrysene	218-01-9	41	J	21	210	1
04688	Dibenzofuran	132-64-9	21	U	21	210	1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210	1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210	1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410	1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210	1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	210	1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	210	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	620	1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	210	1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210	1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210	1
04688	Fluoranthene	206-44-0	54	J	21	210	1
04688	Hexachlorobenzene	118-74-1	21	U	21	210	1
04688	Hexachlorobutadiene	87-68-3	82	U	82	210	1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	620	1
04688	Hexachloroethane	67-72-1	21	U	21	210	1
04688	Isophorone	78-59-1	21	U	21	210	1
04688	2-Methylphenol	95-48-7	41	U	41	210	1
04688	4-Methylphenol	106-44-5	41	U	41	210	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	21	U	21	210	1
04688	3-Nitroaniline	99-09-2	41	U	41	210	1
04688	4-Nitroaniline	100-01-6	82	U	82	210	1
04688	Nitrobenzene	98-95-3	21	U	21	210	1
04688	2-Nitrophenol	88-75-5	21	U	21	210	1
04688	4-Nitrophenol	100-02-7	210	U	210	620	1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210	1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5A-SS-0.0-0.5

LLI Sample # SW 6214532
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:10

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9013 SDG#: DE090-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	210	U	210	620	1
04688	Phenanthrene	85-01-8	29	J	21	210	1
04688	Phenol	108-95-2	21	U	21	210	1
04688	Pyrene	129-00-0	41	J	21	210	1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210	1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	210	1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	210	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.1	1
10138	Acenaphthylene	208-96-8	1.1	J	0.41	2.1	1
10138	Anthracene	120-12-7	1.4	J	0.41	2.1	1
10138	Benzo(a)pyrene	50-32-8	52		0.82	2.1	1
10138	Benzo(b)fluoranthene	205-99-2	79		0.82	2.1	1
10138	Benzo(g,h,i)perylene	191-24-2	49		0.82	2.1	1
10138	Benzo(k)fluoranthene	207-08-9	37		0.82	2.1	1
10138	Butylbenzylphthalate	85-68-7	25		7.4	22	1
10138	Dibenz(a,h)anthracene	53-70-3	17		0.82	2.1	1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22	1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	38		7.4	22	1
10138	Fluorene	86-73-7	0.82	U	0.82	2.1	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	16		0.82	2.1	1
10138	1-Methylnaphthalene	90-12-0	0.92	J	0.82	2.1	1
10138	2-Methylnaphthalene	91-57-6	1.0	J	0.82	2.1	1
10138	Naphthalene	91-20-3	1.2	J	0.82	2.1	1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.1	1
10138	Di-n-octylphthalate	117-84-0	45		7.4	22	1

The following compounds were detected in the method blank at the respective concentrations of:
butylbenzylphthalate 7.2 ug/kg
bis(2-ethylhexyl)phthalate 8.4 ug/kg
di-n-octylphthalate 7.1 ug/kg
These blank values were not subtracted from the analytical results.

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.5	1
10401	Dalapon	75-99-0	5.5	U	5.5	11	1
10401	2,4-DB	94-82-6	7.8		0.78	2.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-019-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5A-SS-0.0-0.5

LLI Sample # SW 6214532
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:10

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9013 SDG#: DE090-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	Dicamba	1918-00-9	0.50	U	0.50	1.5	1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.0	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	U	1.0	2.1	1
10401	MCPA	94-74-6	170	J	95	310	1
10401	MCPP (Mecoprop)	93-65-2	94	U	94	310	1
10401	2,4,5-T	93-76-5	0.69		0.10	0.21	1
10401	2,4,5-TP	93-72-1	0.094	U	0.094	0.21	1

MCPP was detected in the method blank at a concentration of 140 ug/kg.
Also, the LCS recovery for 2,4,5-T is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.082	U	0.082	0.21	1
01363	Alpha BHC	319-84-6	0.042	U	0.042	0.21	1
01363	Beta BHC	319-85-7	0.27		0.075	0.21	1
01363	Gamma BHC - Lindane	58-89-9	0.051	U	0.051	0.21	1
01363	Chlordane	57-74-9	1.8	U	1.8	4.2	1
01363	p,p-DDD	72-54-8	0.19	U	0.19	0.42	1
01363	p,p-DDE	72-55-9	0.23	U	0.23	0.42	1
01363	p,p-DDT	50-29-3	2.4		0.082	0.42	1
01363	Delta BHC	319-86-8	0.046	J	0.045	0.21	1
01363	Dieldrin	60-57-1	0.082	U	0.082	0.42	1
01363	Endosulfan I	959-98-8	0.055	U	0.055	0.21	1
01363	Endosulfan II	33213-65-9	0.11	U	0.11	0.42	1
01363	Endosulfan Sulfate	1031-07-8	0.082	U	0.082	0.42	1
01363	Endrin	72-20-8	0.082	U	0.082	0.42	1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.42	1
01363	Endrin Ketone	53494-70-5	0.43	U	0.43	0.43	1
01363	Heptachlor	76-44-8	0.075	U	0.075	0.21	1
01363	Heptachlor Epoxide	1024-57-3	0.042	U	0.042	0.21	1
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.1	1
01363	Mirex	2385-85-5	0.36	U	0.36	0.42	1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.2	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported for various compounds represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised.
Various compounds were affected.

Sample Description: **SL-019-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5A-SS-0.0-0.5

LLI Sample # SW 6214532
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:10

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9013 SDG#: DE090-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.1	1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.1	1
10225	Aroclor 5460	11126-42-4	16		1.3	4.1	1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1	1
10225	PCB-1221	11104-28-2	0.41	U	0.41	2.1	1
10225	PCB-1232	11141-16-5	0.41	U	0.41	2.1	1
10225	PCB-1242	53469-21-9	0.41	U	0.41	2.1	1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1	1
10225	PCB-1254	11097-69-1	2.1	J	0.41	2.1	1
10225	PCB-1260	11096-82-5	0.49	U	0.49	2.1	1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1	1
10225	PCB-1268	11100-14-4	7.4		0.41	2.1	1
	The DCB surrogate data is outside the QC limits due to presence of PCB-1268.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,100		6.05	24.1	1
07914	Boron	7440-42-8	3.74	J	1.07	6.02	1
01650	Calcium	7440-70-2	3,210		7.38	24.1	1
01654	Iron	7439-89-6	20,000		5.67	24.1	1
01656	Lithium	7439-93-2	25.4		0.26	2.4	1
01657	Magnesium	7439-95-4	4,460		3.06	12.0	1
06958	Manganese	7439-96-5	270		0.0939	0.602	1
10145	Phosphorus	7723-14-0	299		0.674	12.0	1
01662	Potassium	7440-09-7	2,370		21.7	60.2	1
01667	Sodium	7440-23-5	88.3	J	44.9	120	1
07968	Strontium	7440-24-6	20.1		0.0746	0.602	1
06969	Tin	7440-31-5	3.31	J	1.20	12.0	1
06970	Titanium	7440-32-6	1,130		0.457	1.20	1
10146	Zirconium	7440-67-7	2.01	J	1.01	6.02	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.172	J	0.0729	0.243	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.43		0.0972	0.486	2
06126	Barium	7440-39-3	108		0.131	0.486	2
06127	Beryllium	7440-41-7	0.694		0.0194	0.122	2
06128	Cadmium	7440-43-9	0.259		0.0486	0.122	2
06131	Chromium	7440-47-3	23.0		0.146	0.486	2
06132	Cobalt	7440-48-4	5.96		0.0243	0.122	2
06133	Copper	7440-50-8	8.74		0.0802	0.486	2
06135	Lead	7439-92-1	9.45		0.0126	0.243	2
06138	Molybdenum	7439-98-7	0.523		0.0608	0.122	2
06139	Nickel	7440-02-0	14.0		0.122	0.486	2
06141	Selenium	7782-49-2	0.0832	J	0.0486	0.486	2
06142	Silver	7440-22-4	0.0512	J	0.0146	0.122	2
06145	Thallium	7440-28-0	0.265		0.0365	0.122	2
06148	Vanadium	7440-62-2	37.6		0.0267	0.122	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5A-SS-0.0-0.5

LLI Sample # SW 6214532
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:10

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9013 SDG#: DE090-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	125	0.680	3.65	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0164 J	0.0035	0.123	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	1.0	1.3	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.3 U	11.3	37.5	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4	0.25	1.3	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	317	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.31	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	20.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLD026	03/08/2011 18:35	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11060SLA026	03/03/2011 04:43	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11060SLA026	03/01/2011 22:00	Karen L Beyer	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5A-SS-0.0-0.5

LLI Sample # SW 6214532
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:10

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9013 SDG#: DE090-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLD026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110600021A	03/08/2011 03:10	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110570004A	03/09/2011 20:21	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110590024A	03/12/2011 04:21	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110570004A	02/27/2011 13:30	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110590024A	02/28/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110600021A	03/02/2011 02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110625708002	03/04/2011 15:47	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110625708002	03/09/2011 16:30	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110625708002	03/09/2011 16:30	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110625708002	03/04/2011 15:47	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110625708002	03/09/2011 16:30	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110625708002	03/09/2011 16:30	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110625708002	03/04/2011 15:47	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110625708002	03/09/2011 16:30	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110625708002	03/09/2011 16:30	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110625708002	03/09/2011 16:30	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110625708002	03/04/2011 15:47	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110625708002	03/04/2011 15:47	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110625708002	03/09/2011 16:30	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110625708002	03/04/2011 15:47	Eric L Eby	1
06124	Antimony	SW-846 6020	2	110621026001A	03/10/2011 00:42	David K Beck	2
06125	Arsenic	SW-846 6020	1	110621026001A	03/10/2011 00:42	David K Beck	2
06126	Barium	SW-846 6020	1	110621026001D	03/10/2011 00:42	David K Beck	2
06127	Beryllium	SW-846 6020	2	110621026001A	03/10/2011 00:42	David K Beck	2
06128	Cadmium	SW-846 6020	1	110621026001A	03/11/2011 00:23	David K Beck	2
06131	Chromium	SW-846 6020	1	110621026001A	03/10/2011 00:42	David K Beck	2
06132	Cobalt	SW-846 6020	2	110621026001A	03/11/2011 00:23	David K Beck	2
06133	Copper	SW-846 6020	1	110681026001A	03/11/2011 01:41	David K Beck	2
06135	Lead	SW-846 6020	2	110621026001A	03/10/2011 00:42	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110621026001C	03/10/2011 00:42	David K Beck	2
06139	Nickel	SW-846 6020	1	110621026001A	03/10/2011 00:42	David K Beck	2
06141	Selenium	SW-846 6020	2	110621026001B	03/10/2011 00:42	David K Beck	2
06142	Silver	SW-846 6020	1	110621026001A	03/10/2011 00:42	David K Beck	2
06145	Thallium	SW-846 6020	2	110621026001A	03/10/2011 00:42	David K Beck	2
06148	Vanadium	SW-846 6020	1	110681026001A	03/11/2011 01:41	David K Beck	2
06149	Zinc	SW-846 6020	2	110621026001A	03/10/2011 00:42	David K Beck	2
00159	Mercury	SW-846 7471A	1	110625711002	03/04/2011 08:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110625708002	03/03/2011 20:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110621026001	03/03/2011 20:08	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110681026001	03/09/2011 12:22	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110625711002	03/03/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621201B	03/08/2011 16:26	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-019-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5A-SS-0.0-0.5

LLI Sample # SW 6214532
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:10

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9013 SDG#: DE090-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11061495201B	03/04/2011 02:38	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11060243201A	03/02/2011 18:36	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621201B	03/07/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11061495201B	03/03/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11056182101B	02/25/2011 13:45	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11056039401B	02/25/2011 13:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11060243201A	03/01/2011 09:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401B	03/04/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: **EB01-SA5A-022311 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5A-022311

LLI Sample # WW 6214533
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:50

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9014 SDG#: DE090-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	21	U	21	64	1
04678	Benzoic acid	65-85-0	6	U	6	16	1
04678	Benzyl alcohol	100-51-6	5	U	5	16	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5	1
04678	Carbazole	86-74-8	1	U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5	1
04678	4-Chloroaniline	106-47-8	1	U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5	1
04678	2-Chlorophenol	95-57-8	1	U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5	1
04678	Dibenzofuran	132-64-9	1	U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5	1
04678	Hexachlorobenzene	118-74-1	1	U	1	5	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5	1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
04678	Hexachloroethane	67-72-1	1	U	1	5	1
04678	Isophorone	78-59-1	1	U	1	5	1
04678	2-Methylphenol	95-48-7	1	U	1	5	1
04678	4-Methylphenol	106-44-5	2	U	2	5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1	U	1	5	1
04678	3-Nitroaniline	99-09-2	1	U	1	5	1
04678	4-Nitroaniline	100-01-6	1	U	1	5	1
04678	Nitrobenzene	98-95-3	1	U	1	5	1
04678	2-Nitrophenol	88-75-5	1	U	1	5	1
04678	4-Nitrophenol	100-02-7	11	U	11	32	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3	U	3	16	1
04678	Phenol	108-95-2	1	U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB01-SA5A-022311 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5A-022311

LLI Sample # WW 6214533
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:50

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9014 SDG#: DE090-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
bis(2-chloroethyl)ether
benzyl alcohol

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052	1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052	1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052	1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052	1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052	1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052	1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052	1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052	1
10137	Butylbenzylphthalate	85-68-7	0.23	J	0.052	1.0	1
10137	Di-n-butylphthalate	84-74-2	0.48	J	0.052	1.0	1
10137	Chrysene	218-01-9	0.010	U	0.010	0.052	1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052	1
10137	Diethylphthalate	84-66-2	0.079	J	0.052	1.0	1
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.52	J	0.052	1.0	1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.052	1
10137	Fluorene	86-73-7	0.010	U	0.010	0.052	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.052	1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.052	1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.052	1
10137	Naphthalene	91-20-3	0.029	J	0.010	0.052	1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.052	1
10137	Di-n-octylphthalate	117-84-0	0.22	J	0.052	1.0	1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.052	1
10137	Pyrene	129-00-0	0.010	U	0.010	0.052	1

The following compounds were detected in the method blank at the respective concentrations of:
diethylphthalate .081 ug/l
di-n-butylphthalate .27 ug/l
butylbenzylphthalate .21 ug/l
bis(2-ethylhexyl)phthalate .25 ug/l
These blank values were not subtracted from the analytical results.

The recovery of dimethylphthalate was outside of QC limits in the LCS/LCSD. Sufficient sample was unavailable to repeat the analysis.

Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	
10407	2,4-D	94-75-7	0.17	U	0.17	0.52	1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB01-SA5A-022311 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5A-022311

LLI Sample # WW 6214533
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:50

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9014 SDG#: DE090-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0	1
10407	Dicamba	1918-00-9	0.083	U	0.083	0.31	1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.52	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.52	1
10407	MCPA	94-74-6	310	U	310	1,000	1
10407	MCPP	93-65-2	52	U	52	210	1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.052	1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.052	1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.011	1
00177	Alpha BHC	319-84-6	0.0032	U	0.0032	0.011	1
00177	Beta BHC	319-85-7	0.0031	U	0.0031	0.011	1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.011	1
00177	Chlordane	57-74-9	0.13	U	0.13	0.53	1
00177	p,p-DDD	72-54-8	0.0053	U	0.0053	0.021	1
00177	p,p-DDE	72-55-9	0.0053	U	0.0053	0.021	1
00177	p,p-DDT	50-29-3	0.0053	U	0.0053	0.021	1
00177	Delta BHC	319-86-8	0.0031	U	0.0031	0.011	1
00177	Dieldrin	60-57-1	0.0056	U	0.0056	0.021	1
00177	Endosulfan I	959-98-8	0.0046	U	0.0046	0.011	1
00177	Endosulfan II	33213-65-9	0.016	U	0.016	0.021	1
00177	Endosulfan Sulfate	1031-07-8	0.0062	U	0.0062	0.021	1
00177	Endrin	72-20-8	0.0086	U	0.0086	0.021	1
00177	Endrin Aldehyde	7421-93-4	0.021	U	0.021	0.11	1
00177	Endrin Ketone	53494-70-5	0.0053	U	0.0053	0.021	1
00177	Heptachlor	76-44-8	0.0028	U	0.0028	0.011	1
00177	Heptachlor Epoxide	1024-57-3	0.0024	U	0.0024	0.011	1
00177	Methoxychlor	72-43-5	0.032	U	0.032	0.11	1
00177	Mirex	2385-85-5	0.090	U	0.090	0.27	1
00177	Toxaphene	8001-35-2	1.1	U	1.1	3.2	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.11	U	0.11	0.53	1
10227	Aroclor 5442	12642-23-8	0.11	U	0.11	0.53	1
10227	Aroclor 5460	11126-42-4	0.11	U	0.11	0.53	1
10227	PCB-1016	12674-11-2	0.11	U	0.11	0.53	1
10227	PCB-1221	11104-28-2	0.11	U	0.11	0.53	1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.53	1
10227	PCB-1242	53469-21-9	0.11	U	0.11	0.53	1
10227	PCB-1248	12672-29-6	0.11	U	0.11	0.53	1
10227	PCB-1254	11097-69-1	0.11	U	0.11	0.53	1
10227	PCB-1260	11096-82-5	0.11	U	0.11	0.53	1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.53	1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.53	1

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **EB01-SA5A-022311 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5A-022311

LLI Sample # WW 6214533
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:50

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9014 SDG#: DE090-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500	1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00	1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050	1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200	1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500	1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10	1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0	1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: EB01-SA5A-022311 Water
SSFL Area IV Collocated Soil Sampling
EB01-SA5A-022311

LLI Sample # WW 6214533
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:50

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9014 SDG#: DE090-14EB*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11057WAA026	03/08/2011 02:33	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11056WAE026	03/01/2011 20:46	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11057WAA026	02/27/2011 15:45	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11056WAE026	02/26/2011 09:35	JoElla L Rice	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	110590027A	03/06/2011 01:46	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	110550023A	02/28/2011 21:31	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110550024A	03/10/2011 02:14	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110550024A	02/25/2011 10:00	Kelli M Barto	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	110550023A	02/25/2011 10:00	Kelli M Barto	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	110590027A	02/28/2011 21:15	Karen L Beyer	1
01743	Aluminum	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	110601848002	03/03/2011 02:49	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	110606050003A	03/09/2011 02:22	David K Beck	1
06025	Arsenic	SW-846 6020	2	110606050003A	03/09/2011 02:22	David K Beck	1
06026	Barium	SW-846 6020	1	110606050003D	03/09/2011 02:22	David K Beck	1
06027	Beryllium	SW-846 6020	1	110606050003A	03/09/2011 02:22	David K Beck	1
06028	Cadmium	SW-846 6020	2	110606050003A	03/09/2011 02:22	David K Beck	1
06031	Chromium	SW-846 6020	2	110606050003A	03/09/2011 02:22	David K Beck	1
06032	Cobalt	SW-846 6020	2	110606050003A	03/09/2011 02:22	David K Beck	1
06033	Copper	SW-846 6020	2	110606050003A	03/09/2011 02:22	David K Beck	1
06035	Lead	SW-846 6020	2	110606050003A	03/09/2011 02:22	David K Beck	1
06038	Molybdenum	SW-846 6020	2	110606050003C	03/09/2011 02:22	David K Beck	1
06039	Nickel	SW-846 6020	2	110606050003A	03/09/2011 02:22	David K Beck	1
06041	Selenium	SW-846 6020	2	110606050003B	03/09/2011 02:22	David K Beck	1
06042	Silver	SW-846 6020	2	110606050003A	03/09/2011 02:22	David K Beck	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB01-SA5A-022311 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5A-022311

LLI Sample # WW 6214533
LLI Group # 1234467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:50

Submitted: 02/24/2011 08:50
Reported: 03/24/2011 13:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9014 SDG#: DE090-14EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06045	Thallium	SW-846 6020	2	110606050003A	03/09/2011 02:22	David K Beck	1
06048	Vanadium	SW-846 6020	2	110606050003A	03/09/2011 02:22	David K Beck	1
06049	Zinc	SW-846 6020	1	110606050003A	03/09/2011 02:22	David K Beck	1
00259	Mercury	SW-846 7470A	1	110565713004	02/25/2011 20:24	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110601848002	03/02/2011 09:05	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110606050003	03/02/2011 09:03	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110565713004	02/25/2011 15:20	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11062196602A	03/04/2011 03:06	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11059199401A	03/01/2011 11:39	Carrie E Miller	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11055191401A	02/24/2011 14:22	Carrie E Miller	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
Reported: 03/24/11 at 01:19 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11056WAE026	Sample number(s): 6214533									
Acenaphthene	0.010	U	0.010	0.050	ug/l	90	95	74-109	6	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	92	97	70-110	5	30
Anthracene	0.010	U	0.010	0.050	ug/l	93	96	66-111	3	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	103	108	72-114	5	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	98	104	60-127	6	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	104	107	69-123	3	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	102	101	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	95	101	59-130	6	30
Butylbenzylphthalate	0.21	J	0.050	1.0	ug/l	52	53	40-138	0	30
Di-n-butylphthalate	0.27	J	0.050	1.0	ug/l	89	93	74-131	5	30
Chrysene	0.010	U	0.010	0.050	ug/l	98	103	76-116	5	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	102	100	55-134	1	30
Diethylphthalate	0.081	J	0.050	1.0	ug/l	60	64	57-134	6	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	15*	16*	40-119	7	30
Bis(2-Ethylhexyl)phthalate	0.25	J	0.050	1.0	ug/l	130	135	57-154	4	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	95	100	75-116	5	30
Fluorene	0.010	U	0.010	0.050	ug/l	90	95	75-114	5	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	102	102	69-124	0	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	84	90	71-117	7	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	75	80	75-115	7	30
Naphthalene	0.010	U	0.010	0.050	ug/l	79	85	72-109	7	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	55	54	36-89	0	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	117	117	57-145	0	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	89	91	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	93	95	69-118	3	30
Batch number: 11057WAA026	Sample number(s): 6214533									
Aniline	1	U	1.	5	ug/l	90	97	49-101	7	30
Benzidine	20	U	20.	60	ug/l	88	92	34-117	5	30
Benzoic acid	6	U	6.	15	ug/l	29	32	10-69	11	30
Benzyl alcohol	5	U	5.	15	ug/l	63*	68	66-97	7	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	91	96	82-117	5	30
Carbazole	1	U	1.	5	ug/l	84	105	81-114	22	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	83	87	70-123	6	30
4-Chloroaniline	1	U	1.	5	ug/l	78	86	42-124	11	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	86	91	74-124	6	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	74*	76*	77-108	3	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	94	62-127	4	30
2-Chloronaphthalene	2	U	2.	5	ug/l	86	85	54-132	1	30
2-Chlorophenol	1	U	1.	5	ug/l	84	88	77-108	5	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	88	97	82-111	9	30
Dibenzofuran	1	U	1.	5	ug/l	97	97	83-108	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	81	86	55-118	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	81	85	50-119	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	81	85	53-119	4	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	70	74	49-111	5	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
Reported: 03/24/11 at 01:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dichlorophenol	1	U	1.	5	ug/l	91	98	80-109	7	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	84	90	72-110	7	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	86	92	70-130	7	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	79	93	78-119	16	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	78	88	52-131	13	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	94	106	81-115	12	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	87	97	85-115	11	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	83	94	78-116	12	30
Hexachlorobenzene	1	U	1.	5	ug/l	95	102	81-118	7	30
Hexachlorobutadiene	1	U	1.	5	ug/l	91	97	57-124	7	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	77	78	36-118	1	30
Hexachloroethane	1	U	1.	5	ug/l	75	76	52-113	1	30
Isophorone	1	U	1.	5	ug/l	87	93	74-117	6	30
2-Methylphenol	1	U	1.	5	ug/l	70	74	64-101	6	30
4-Methylphenol	2	U	2.	5	ug/l	61	64	61-103	5	30
2-Nitroaniline	1	U	1.	5	ug/l	89	94	83-116	6	30
3-Nitroaniline	1	U	1.	5	ug/l	86	97	74-113	12	30
4-Nitroaniline	1	U	1.	5	ug/l	69	77	59-100	11	30
Nitrobenzene	1	U	1.	5	ug/l	80	87	75-109	9	30
2-Nitrophenol	1	U	1.	5	ug/l	95	101	86-120	7	30
4-Nitrophenol	10	U	10.	30	ug/l	28	33	16-78	16	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	79	82	69-110	4	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	92	104	67-136	12	30
Pentachlorophenol	3	U	3.	15	ug/l	81	91	53-110	11	30
Phenol	1	U	1.	5	ug/l	31	35	21-67	11	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	89	94	71-112	5	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	96	100	79-107	5	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	91	99	81-113	8	30

Batch number: 11059SLD026 Sample number(s): 6214517-6214522,6214524-6214532

Acenaphthene	17	U	17.	170	ug/kg	88	76-111	
Acenaphthylene	17	U	17.	170	ug/kg	97	75-122	
Aniline	170 U		170.	500	ug/kg	78	34-94	
Anthracene	17	U	17.	170	ug/kg	93	76-112	
Benzidine	1,200 U		1,200.	3,300	ug/kg	58	15-121	
Benzo(a)anthracene	17	U	17.	170	ug/kg	99	73-112	
Benzo(a)pyrene	17	U	17.	170	ug/kg	80	69-122	
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	83	61-127	
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	83	65-122	
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	80	67-125	
Benzoic acid	170 U		170.	500	ug/kg	88	62-113	
Benzyl alcohol	170 U		170.	500	ug/kg	89	68-111	
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	101	79-117	
Butylbenzylphthalate	17	U	17.	170	ug/kg	103	75-115	
Di-n-butylphthalate	17	U	17.	170	ug/kg	99	79-112	
Carbazole	17	U	17.	170	ug/kg	89	77-113	
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	92	74-119	
4-Chloroaniline	67	U	67.	170	ug/kg	37	10-110	
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	89	70-118	
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	78	70-104	
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	90	68-131	
2-Chloronaphthalene	17	U	17.	170	ug/kg	77	49-128	
2-Chlorophenol	17	U	17.	170	ug/kg	95	72-112	
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	87	79-110	

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
Reported: 03/24/11 at 01:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	79		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	80		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	59		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	101		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	96		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	98		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	82		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	97		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	83		77-111		
bis(2-Ethylhexyl)phthalate	22	J	17.	330	ug/kg	106		75-117		
Fluoranthene	17	U	17.	170	ug/kg	96		78-116		
Fluorene	17	U	17.	170	ug/kg	97		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	89		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	73		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	77		64-119		
Isophorone	17	U	17.	170	ug/kg	90		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	100		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	93		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	90		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	87		66-117		
Naphthalene	17	U	17.	170	ug/kg	89		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	83		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	97		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	71		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	80		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	68		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	91		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	82		51-117		
Phenanthrene	17	U	17.	170	ug/kg	89		77-113		
Phenol	17	U	17.	170	ug/kg	85		58-112		
Pyrene	17	U	17.	170	ug/kg	104		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 11060SLA026	Sample number(s): 6214517-6214522,6214524-6214532									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	85		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	95		60-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
Reported: 03/24/11 at 01:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Anthracene	0.33	U	0.33	1.7	ug/kg	94		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	107		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	129		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	133		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	132		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	135		54-142		
Butylbenzylphthalate	7.2	J	6.0	18	ug/kg	127		65-131		
Di-n-butylphthalate	7.1	J	6.0	18	ug/kg	113		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	104		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	135		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	109		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	8.4	J	6.0	18	ug/kg	142		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	98		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	93		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	131		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	80		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		55-118		
Di-n-octylphthalate	7.1	J	6.0	18	ug/kg	154		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	92		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	100		56-121		
Batch number: 110590027A	Sample number(s): 6214533									
2,4-D	0.16	U	0.16	0.50	ug/l	96	96	73-157	0	30
Dalapon	0.25	U	0.25	1.3	ug/l	75	76	40-100	2	30
2,4-DB	0.30	U	0.30	1.0	ug/l	80	88	65-130	10	30
Dicamba	0.080	U	0.080	0.30	ug/l	88	88	68-135	0	30
Dinoseb	0.10	U	0.10	0.50	ug/l	79	84	32-91	6	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	112	112	76-170	0	30
MCPA	300 U		300.	1,000	ug/l	88	92	65-128	4	30
MCPP	50	U	50.	200	ug/l	84	84	67-137	0	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	92	92	63-147	0	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	92	96	63-134	4	30
Batch number: 110600021A	Sample number(s): 6214517-6214522,6214524-6214532									
2,4-D	1.2	U	1.2	3.6	ug/kg	79		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	67		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	78		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	57		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	95		62-170		
MCPA	76	U	76.	250	ug/kg	98		60-130		
MCPP (Mecoprop)	140 J		75.	250	ug/kg	60		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	72*		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	76		68-114		
Batch number: 110600022A	Sample number(s): 6214518,6214525,6214530									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	98		85-115		
Batch number: 110550023A	Sample number(s): 6214533									
Aldrin	0.0020	U	0.0020	0.010	ug/l	111	111	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	122	112	59-146	9	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	73-147	0	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	121	121	68-128	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	125	115	71-139	8	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	116	111	66-130	5	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	100	95	53-126	5	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	110	110	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	93	101	68-128	8	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	95	90	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	120	115	71-142	4	30
Endrin	0.0081	U	0.0081	0.020	ug/l	100	100	52-132	0	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	110	105	68-139	5	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	115	110	69-146	4	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	112	112	57-126	0	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	102	73-156	10	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	100	97	52-133	3	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 110550024A	Sample number(s): 6214533									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	66	62	35-84	6	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	84	86	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	78	80	56-135	3	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110570004A	Sample number(s): 6214517-6214522,6214524-6214532									
Aldrin	0.066	U	0.066	0.17	ug/kg	103		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	73		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	79		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	99		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	140		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	97		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	91		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	86		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	67		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	94		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	112		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	85		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	79		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	102		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	82		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	115		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	94		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110590024A	Sample number(s): 6214517-6214522,6214524-6214532									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	67	67	36-106	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	85		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	99		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110565713004	Sample number(s): 6214533									
Mercury	0.000050	U	0.00005	0.00020	mg/l	100	103	80-120	3	20
			0							
Batch number: 110601848002	Sample number(s): 6214533									
Aluminum	0.0834	U	0.0834	0.200	mg/l	95	95	90-112	0	20
Boron	0.0138	U	0.0138	0.0500	mg/l	96	95	90-110	0	20
Calcium	0.0702	U	0.0702	0.200	mg/l	99	100	90-112	0	20
Iron	0.0522	U	0.0522	0.200	mg/l	99	99	90-112	0	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	102	102	80-120	0	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	100	100	89-110	1	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	102	102	90-110	0	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	100	100	80-120	0	20
Potassium	0.239	U	0.239	0.500	mg/l	99	99	85-115	0	20
Sodium	0.433	U	0.433	1.00	mg/l	100	101	87-114	1	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	104	103	90-110	1	20
Tin	0.0098	U	0.0098	0.0200	mg/l	101	101	90-110	0	20
Titanium	0.0038	U	0.0038	0.0100	mg/l	105	105	90-113	0	20
Zirconium	0.0206	U	0.0206	0.0500	mg/l	104	104	80-120	0	20
Batch number: 110606050003A	Sample number(s): 6214533									
Antimony	0.00030	U	0.00030	0.0010	mg/l	98	102	87-110	4	20
Arsenic	0.00095	U	0.00095	0.0020	mg/l	104	107	86-111	3	20
Beryllium	0.00013	U	0.00013	0.00050	mg/l	106	107	90-112	2	20
Cadmium	0.00020	U	0.00020	0.00050	mg/l	99	97	90-114	2	20
Chromium	0.00060	U	0.00060	0.0020	mg/l	110	113	90-118	3	20
Cobalt	0.00010	U	0.00010	0.00050	mg/l	105	110	80-120	5	20
Copper	0.00038	U	0.00038	0.0020	mg/l	108	113	90-113	4	20
Lead	0.000052		0.00005	0.0010	mg/l	104	104	90-115	0	20
	U		2							
Nickel	0.00050	U	0.00050	0.0020	mg/l	105	108	90-113	4	20
Silver	0.000080		0.00008	0.00050	mg/l	99	105	90-115	5	20
	U		0							
Thallium	0.00015	U	0.00015	0.00050	mg/l	98	100	89-116	2	20
Vanadium	0.00016	U	0.00016	0.00050	mg/l	106	113	80-120	7	20
Zinc	0.0040	U	0.0040	0.0150	mg/l	93	105	80-120	11	20
Batch number: 110606050003B	Sample number(s): 6214533									
Selenium	0.00025	U	0.00025	0.0020	mg/l	102	103	85-114	1	20
Batch number: 110606050003C	Sample number(s): 6214533									
Molybdenum	0.00025	U	0.00025	0.00050	mg/l	98	101	80-120	3	20
Batch number: 110606050003D	Sample number(s): 6214533									
Barium	0.00053	U	0.00053	0.0020	mg/l	103	112	88-113	8	20
Batch number: 110621026001A	Sample number(s): 6214517-6214532									

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Quality Control Summary

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Reported: 03/24/11 at 01:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Antimony	0.0600	U	0.0600	0.200	mg/kg	120		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	111		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	109		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	111		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	115		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	107		82-118		
Lead	0.0104	U	0.0104	0.200	mg/kg	104		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	113		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	109		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	107		81-119		
Zinc	0.560	U	0.560	3.00	mg/kg	107		78-122		
Batch number: 110621026001B	Sample number(s): 6214517-6214532									
Selenium	0.0400	U	0.0400	0.400	mg/kg	108		79-122		
Batch number: 110621026001C	Sample number(s): 6214517-6214532									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 110621026001D	Sample number(s): 6214517-6214532									
Barium	0.108	U	0.108	0.400	mg/kg	111		79-121		
Batch number: 110625708002	Sample number(s): 6214517-6214532									
Aluminum	5.03	U	5.03	20.0	mg/kg	98		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	97		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	102		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	102		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	101		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	106		81-119		
Phosphorus	1.19	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3	U	37.3	100	mg/kg	102		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	105		79-121		
Tin	1.51	J	1.00	10.0	mg/kg	107		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	107		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	96		80-120		
Batch number: 110625711002	Sample number(s): 6214517-6214532									
Mercury	0.0028	U	0.0028	0.0961	mg/kg	91		88-123		
Batch number: 110681026001A	Sample number(s): 6214517-6214532									
Copper	0.283	J	0.0660	0.400	mg/kg	101		80-120		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	99		90-110		
Batch number: 11055191401A	Sample number(s): 6214533									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	106	107	90-110	1	20
Batch number: 11059199401A	Sample number(s): 6214533									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	101	104	85-115	3	20
Batch number: 11060243201A	Sample number(s): 6214517-6214521,6214523-6214532									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	88		80-120		
Batch number: 11061495201A	Sample number(s): 6214517-6214519									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11061495201B	Sample number(s): 6214520-6214521,6214523-6214532									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
Reported: 03/24/11 at 01:19 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11062196602A	Sample number(s): 6214533								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	95	95	90-110	0	20
Batch number: 11066621201A	Sample number(s): 6214517-6214519								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	97		90-110		
Batch number: 11066621201B	Sample number(s): 6214520-6214521,6214523-6214532								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	97		90-110		
Batch number: 11056039401A	Sample number(s): 6214517-6214519								
22a pH by 9045C					99		95-105		
Batch number: 11056039401B	Sample number(s): 6214520,6214523-6214532								
22a pH by 9045C					99		95-105		
Batch number: 11056182101A	Sample number(s): 6214517-6214519								
32a OR Potential					99		98-102		
Batch number: 11056182101B	Sample number(s): 6214520,6214523-6214532								
32a OR Potential					99		98-102		
Batch number: 11063162401A	Sample number(s): 6214517-6214519,6214524-6214527								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11063162401B	Sample number(s): 6214528-6214532								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11066162401A	Sample number(s): 6214520-6214523								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11059SLD026	Sample number(s): 6214517-6214522,6214524-6214532 UNSPK: 6214520								
Acenaphthene	88	81	75-115	8	30				
Acenaphthylene	92	86	81-110	6	30				
Aniline	92	91	35-95	1	30				
Anthracene	85	80	75-115	5	30				
Benzidine	55	50	35-141	8	30				
Benzo(a)anthracene	91	86	65-122	6	30				
Benzo(a)pyrene	81	74	57-126	9	30				
Benzo(b)fluoranthene	74	73	59-125	1	30				
Benzo(g,h,i)perylene	83	77	59-127	7	30				
Benzo(k)fluoranthene	84	71	56-132	16	30				
Benzoic acid	43	46	10-173	6	30				
Benzyl alcohol	81	77	67-115	5	30				
4-Bromophenyl-phenylether	92	90	67-129	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
Reported: 03/24/11 at 01:19 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Butylbenzylphthalate	93	85	73-134	9	30				
Di-n-butylphthalate	91	88	67-123	3	30				
Carbazole	86	83	64-120	3	30				
4-Chloro-3-methylphenol	85	78	76-110	8	30				
4-Chloroaniline	48	68	23-95	35*	30				
bis(2-Chloroethoxy)methane	84	79	75-104	6	30				
bis(2-Chloroethyl)ether	75	71	60-116	5	30				
bis(2-Chloroisopropyl)ether	89	83	55-142	7	30				
2-Chloronaphthalene	87	80	50-141	8	30				
2-Chlorophenol	91	85	73-121	6	30				
4-Chlorophenyl-phenylether	88	86	80-109	2	30				
Chrysene	90	83	62-128	8	30				
Dibenz(a,h)anthracene	81	75	65-125	8	30				
Dibenzofuran	94	86	71-112	9	30				
1,2-Dichlorobenzene	81	75	66-108	8	30				
1,3-Dichlorobenzene	79	74	63-109	7	30				
1,4-Dichlorobenzene	81	73	70-100	9	30				
3,3'-Dichlorobenzidine	73	81	16-119	10	30				
2,4-Dichlorophenol	92	86	78-117	7	30				
Diethylphthalate	90	83	66-118	8	30				
2,4-Dimethylphenol	87	80	78-110	8	30				
3,5-Dimethylphenol	90	82	70-130	9	30				
Dimethylphthalate	85	82	64-118	3	30				
4,6-Dinitro-2-methylphenol	72	69	24-116	4	30				
2,4-Dinitrophenol	67	58	20-143	14	30				
2,4-Dinitrotoluene	94	86	73-113	9	30				
2,6-Dinitrotoluene	91	85	69-123	7	30				
1,2-Diphenylhydrazine	77	77	71-129	1	30				
bis(2-Ethylhexyl)phthalate	95	82	63-122	14	30				
Fluoranthene	85	81	73-112	3	30				
Fluorene	88	83	77-111	6	30				
Hexachlorobenzene	96	90	77-114	6	30				
Hexachlorobutadiene	94	88	62-120	6	30				
Hexachlorocyclopentadiene	68	60	10-153	12	30				
Hexachloroethane	73	68	57-109	8	30				
Indeno(1,2,3-cd)pyrene	81	75	61-126	8	30				
Isophorone	83	79	73-102	5	30				
1-Methylnaphthalene	94	88	73-112	6	30				
2-Methylnaphthalene	87	82	76-114	6	30				
2-Methylphenol	85	79	75-111	7	30				
4-Methylphenol	83	77	71-111	7	30				
Naphthalene	85	80	72-116	5	30				
2-Nitroaniline	88	81	67-125	7	30				
3-Nitroaniline	87	79	59-122	10	30				
4-Nitroaniline	67	69	52-112	3	30				
Nitrobenzene	79	73	72-106	7	30				
2-Nitrophenol	92	86	74-115	6	30				
4-Nitrophenol	67	59	54-113	12	30				
N-Nitroso-di-n-propylamine	78	73	60-116	6	30				
N-Nitrosodimethylamine	67	64	47-116	4	30				
N-Nitrosodiphenylamine	90	87	86-145	3	30				
Di-n-octylphthalate	80	72	56-126	10	30				
Pentachlorophenol	66	58	28-127	12	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
Reported: 03/24/11 at 01:19 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phenanthrene	89	81	65-125	8	30				
Phenol	82	77	58-126	6	30				
Pyrene	92	83	74-126	10	30				
1,2,4-Trichlorobenzene	90	85	72-115	6	30				
2,4,5-Trichlorophenol	95	89	78-109	6	30				
2,4,6-Trichlorophenol	94	87	77-115	7	30				
Batch number: 11060SLA026	Sample number(s): 6214517-6214522,6214524-6214532 UNSPK: 6214520								
Acenaphthene	102	100	63-105	1	30				
Acenaphthylene	104	107	67-114	4	30				
Anthracene	107	106	60-122	1	30				
Benzo(a)anthracene	123	118	59-128	3	30				
Benzo(a)pyrene	139*	145*	45-138	5	30				
Benzo(b)fluoranthene	136	137	43-155	2	30				
Benzo(g,h,i)perylene	143*	103	33-141	29	30				
Benzo(k)fluoranthene	123	146*	42-144	18	30				
Butylbenzylphthalate	201*	138	57-173	31*	30				
Di-n-butylphthalate	115	107	65-148	4	30				
Chrysene	114	112	48-134	0	30				
Dibenz(a,h)anthracene	153*	118	22-133	24	30				
Diethylphthalate	115	117	70-136	3	30				
Dimethylphthalate	109	112	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	376*	184*	39-167	56*	30				
Fluoranthene	93	93	26-166	1	30				
Fluorene	94	96	66-122	4	30				
Indeno(1,2,3-cd)pyrene	148*	109	21-143	28	30				
1-Methylnaphthalene	91	92	72-123	3	30				
2-Methylnaphthalene	81	82	64-103	2	30				
Naphthalene	91	90	61-102	0	30				
N-Nitrosodimethylamine	76	80	48-113	6	30				
Di-n-octylphthalate	155	158	40-192	4	30				
Phenanthrene	99	97	12-165	0	30				
Pyrene	114	96	15-153	15	30				
Batch number: 110600021A	Sample number(s): 6214517-6214522,6214524-6214532 UNSPK: 6214520								
2,4-D	81	73	17-180	10	35				
Dalapon	32	33	10-125	5	50				
2,4-DB	63	51	10-201	21	50				
Dicamba	73	73	10-190	0	50				
Dinoseb	9*	9*	10-46	4	35				
2,4-DP (Dichlorprop)	94	96	33-178	2	50				
MCPA	62	73	10-213	16	50				
MCPP (Mecoprop)	53	52	10-184	3	50				
2,4,5-T	48	45	10-156	8	35				
2,4,5-TP	70	58	24-141	19	35				
Batch number: 110600022A	Sample number(s): 6214518,6214525,6214530 UNSPK: p213415								
6a Perchlorate EPA 6850	102	102	80-120	0	20				
Batch number: 110570004A	Sample number(s): 6214517-6214522,6214524-6214532 UNSPK: 6214520								
Aldrin	70	0*	16-126	200*	50				
Alpha BHC	39	36	10-129	8	50				
Beta BHC	56	53	14-147	6	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
Reported: 03/24/11 at 01:19 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Gamma BHC - Lindane	38	44	10-140	11	50				
p,p-DDD	45	41	16-163	11	50				
p,p-DDE	68	63	18-161	10	50				
p,p-DDT	-25*	-63*	10-176	23	50				
Delta BHC	56	88	23-140	43	50				
Dieldrin	75	66	19-154	13	50				
Endosulfan I	30	25	16-137	20	50				
Endosulfan II	66	62	28-154	7	50				
Endosulfan Sulfate	83	72	21-160	14	50				
Endrin	49	48	11-149	3	50				
Endrin Aldehyde	42	49	10-148	17	35				
Endrin Ketone	0*	51	22-165	200*	50				
Heptachlor	55	97	13-126	53*	50				
Heptachlor Epoxide	72	63	13-157	14	50				
Methoxychlor	46	43	32-147	5	50				
Batch number: 110590024A	Sample number(s): 6214517-6214522,6214524-6214532 UNSPK: 6214520								
PCB-1016	99	101	29-146	2	50				
PCB-1260	143	202*	39-149	34	50				
Batch number: 110621026001A	Sample number(s): 6214517-6214532 UNSPK: 6214520 BKG: 6214520								
Antimony	39*	35*	75-125	9	20	0.160 J	0.132 J	19 (1)	20
Arsenic	95	86	75-125	4	20	3.71	3.42	8	20
Beryllium	89	94	75-125	3	20	0.490	0.456	7 (1)	20
Cadmium	103	114	75-125	8	20	0.194	0.210	8 (1)	20
Chromium	78	90	75-125	5	20	15.2	14.3	6	20
Cobalt	85	86	75-125	1	20	4.56	4.42	3	20
Lead	72*	89	75-125	6	20	6.34	5.78	9	20
Nickel	79	86	75-125	3	20	9.68	8.78	10	20
Silver	102	104	75-125	1	20	0.0284 J	0.0705 J	85* (1)	20
Thallium	93	101	75-125	4	20	0.228	0.215	6 (1)	20
Zinc	67 (2)	123 (2)	75-125	6	20	77.0	75.7	2	20
Batch number: 110621026001B	Sample number(s): 6214517-6214532 UNSPK: 6214520 BKG: 6214520								
Selenium	97	95	75-125	3	20	0.0671 J	0.0894 J	28* (1)	20
Batch number: 110621026001C	Sample number(s): 6214517-6214532 UNSPK: 6214520 BKG: 6214520								
Molybdenum	103	103	75-125	1	20	0.355	0.340	4 (1)	20
Batch number: 110621026001D	Sample number(s): 6214517-6214532 UNSPK: 6214520 BKG: 6214520								
Barium	69 (2)	86 (2)	75-125	2	20	97.2	86.4	12	20
Batch number: 110625708002	Sample number(s): 6214517-6214532 UNSPK: 6214520 BKG: 6214520								
Aluminum	1361 (2)	498 (2)	75-125	11	20	13,200	12,500	5	20
Boron	98	98	84-115	2	20	3.22 J	3.86 J	18 (1)	20
Calcium	262 (2)	57 (2)	75-125	22*	20	3,010	2,780	8	20
Iron	-2 (2)	-2981 (2)	75-125	17	20	19,100	19,000	0	20
Lithium	97	94	82-114	2	20	21.7	19.9	9	20
Magnesium	158 (2)	-133 (2)	75-125	13	20	4,200	3,910	7	20
Manganese	71 (2)	21 (2)	75-125	8	20	290	274	6	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
Reported: 03/24/11 at 01:19 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Phosphorus	65 (2)	34 (2)	75-125	6	20	412		336		20	20
Potassium	87	68*	75-125	5	20	2,930		2,780		5	20
Sodium	113	96	75-125	13	20	81.7	J	79.9	J	2 (1)	20
Strontium	103	94	75-115	6	20	17.1		15.4		10	20
Tin	91	89	80-110	0	20	2.65	J	2.61	J	1 (1)	20
Titanium	162 (2)	101 (2)	75-125	5	20	1,110		1,070		4	20
Zirconium	94	89	75-125	3	20	1.75	J	1.78	J	2 (1)	20
Batch number: 110625711002	Sample number(s): 6214517-6214532 UNSPK: 6214520 BKG: 6214520										
Mercury	95	94	65-135	1	20	0.0355	J	0.0358	J	1 (1)	20
Batch number: 110681026001A	Sample number(s): 6214517-6214532 UNSPK: 6214520 BKG: 6214520										
Copper	90	94	75-125	2	20	6.96		7.71		10	20
Vanadium	76	83	75-125	2	20	29.5		29.7		1	20
Batch number: 11060243201A	Sample number(s): 6214517-6214521,6214523-6214532 UNSPK: 6214520 BKG: 6214520										
3a Cr VI by EPA 7199	81		75-125			0.29	J	0.37	J	23* (1)	20
Batch number: 11061495201A	Sample number(s): 6214517-6214519 UNSPK: P214501 BKG: P214501										
7a Perchlorate EPA 314.0	98		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11061495201B	Sample number(s): 6214520-6214521,6214523-6214532 UNSPK: 6214520 BKG: 6214520										
7a Perchlorate EPA 314.0	96		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11066621201A	Sample number(s): 6214517-6214519 UNSPK: P214502 BKG: P214502										
11a Anions by 300.0 - Fluoride	39*		80-120			1.3		1.6		20 (1)	20
Batch number: 11066621201B	Sample number(s): 6214520-6214521,6214523-6214532 UNSPK: 6214520 BKG: 6214520										
11a Anions by 300.0 - Fluoride	78*		80-120			0.91	J	0.84	J	8 (1)	20
Batch number: 11056039401A	Sample number(s): 6214517-6214519 BKG: P214502										
22a pH by 9045C						6.74		6.55		3*	1
Batch number: 11056039401B	Sample number(s): 6214520,6214523-6214532 BKG: 6214520										
22a pH by 9045C						7.95		7.99		1	1
Batch number: 11056182101A	Sample number(s): 6214517-6214519 BKG: P214502										
32a OR Potential						347		360		4	6
Batch number: 11056182101B	Sample number(s): 6214520,6214523-6214532 BKG: 6214520										
32a OR Potential						293		304		4	6
Batch number: 11063162401A	Sample number(s): 6214517-6214519,6214524-6214527 BKG: P214520										
28a Moisture Content by 160.3						9.7		8.1		18	20
Batch number: 11063162401B	Sample number(s): 6214528-6214532 BKG: 6214528										
28a Moisture Content by 160.3						11.1		11.1		0	20
Batch number: 11066162401A	Sample number(s): 6214520-6214523 BKG: 6214520										
28a Moisture Content by 160.3						10.6		10.1		5	20
28a Moisture Content by 160.3						10.6		10.1		5	20
28a Moisture Content by 160.3						10.6		10.1		5	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
Reported: 03/24/11 at 01:19 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11056WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6214533	97	84	98
Blank	98	89	101
LCS	89	79	91
LCSD	94	84	96
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11057WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6214533	42	24	74	73	79	83
Blank	46	28	93	73	85	79
LCS	48	28	90	78	88	78
LCSD	51	30	88	82	88	78
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11059SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6214517	77	83	88	77	90	85
6214518	76	81	89	77	88	87
6214519	80	86	83	81	97	87
6214520	80	84	87	78	87	88
6214521	81	85	86	77	88	84
6214522	75	79	83	72	81	77
6214524	80	86	93	78	92	87
6214525	78	84	82	80	88	83
6214526	77	81	82	79	79	85
6214527	88	94	86	88	96	92
6214528	78	82	79	81	84	84
6214529	85	92	85	82	96	84
6214530	79	87	86	80	81	82
6214531	80	85	81	78	85	78
6214532	86	0*	86	88	94	89
Blank	83	87	97	81	89	88
LCS	84	87	98	82	87	95
MS	81	85	86	77	88	84
MSD	75	79	83	72	81	77
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11060SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
Reported: 03/24/11 at 01:19 PM

Surrogate Quality Control

6214517	85	88	93
6214518	75	81	99
6214519	78	82	97
6214520	102	86	98
6214521	84	86	107
6214522	83	88	91
6214524	81	84	98
6214525	82	90	99
6214526	78	84	97
6214527	73	84	96
6214528	79	86	95
6214529	75	77	82
6214530	78	88	95
6214531	76	83	86
6214532	94	73	174*
Blank	98	86	102
LCS	96	83	96
MS	84	86	107
MSD	83	88	91
Limits:	40-130	45-130	45-135

Analysis Name: 12b Pesticides by 8081A
Batch number: 110550023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6214533	112	56
Blank	117	73
LCS	115	73
LCSD	114	66
Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110550024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6214533	92	41*
Blank	94	57
LCS	88	50
LCSD	91	50
Limits:	30-150	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 110570004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6214517	22*	48
6214518	65	134*
6214519	67	288*
6214520	64	124*
6214521	51	92
6214522	43*	66
6214524	66	82
6214525	65	147*

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
Reported: 03/24/11 at 01:19 PM

Surrogate Quality Control

6214526	52	65
6214527	50	36
6214528	75	76
6214529	57	74
6214530	51	113
6214531	43*	75
6214532	53	77
Blank	80	114
LCS	66	102
MS	51	92
MSD	43*	66
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110590024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6214517	86	463*
6214518	91	161*
6214519	108	171*
6214520	81	127*
6214521	87	155*
6214522	79	374*
6214524	95	133*
6214525	90	455*
6214526	90	112
6214527	91	198*
6214528	87	108
6214529	88	105
6214530	90	111
6214531	52*	197*
6214532	80	162*
Blank	80	95
LCS	87	97
LCSD	82	90
MS	87	155*
MSD	79	374*
Limits:	53-139	45-120

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 110590027A

	2,4-Dichlorophenylacetic acid
6214533	87
Blank	70
LCS	85
LCSD	89
Limits:	35-144

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110600021A

	2,4-Dichlorophenylacetic acid

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234467
Reported: 03/24/11 at 01:19 PM

Surrogate Quality Control

6214517	68
6214518	72
6214519	76
6214520	80
6214521	97
6214522	73
6214524	47
6214525	63
6214526	79
6214527	48
6214528	67
6214529	63
6214530	76
6214531	61
6214532	121
Blank	104
LCS	87
MS	97
MSD	73
Limits:	36-156

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1234467 sample# 6214517-33

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
DUP-04-SA5A-QC-022311	2.23.2011	1335	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
DUP-04-SA5A-QC-022311	2.23.2011	1335	SOIL	NONE	1-6 inch sleeve			X	X							
SL-001-SA5A-SS-0.0-0.5	2.23.2011	1353	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-001-SA5A-SS-0.0-0.5	2.23.2011	1353	SOIL	NONE	1-6 inch sleeve			X	X							
SL-002-SA5A-SS-0.0-0.5	2.23.2011	1425	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-002-SA5A-SS-0.0-0.5	2.23.2011	1425	SOIL	NONE	1-6 inch sleeve			X	X							
SL-004-SA5A-SS-0.0-0.5MS	2.23.2011	1335	SOIL	NONE	2-16 oz jars	X	X			X	X	X		X	X	MS/MSD Sample
SL-004-SA5A-SS-0.0-0.5MS	2.23.2011	1335	SOIL	NONE	2-6 inch sleeves			X	X							MS/MSD Sample
SL-006-SA5A-SS-0.0-0.5	2.23.2011	1114	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-006-SA5A-SS-0.0-0.5	2.23.2011	1114	SOIL	NONE	1-6 inch sleeve			X	X							
SL-009-SA5A-SS-0.0-0.5	2.23.2011	0925	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-009-SA5A-SS-0.0-0.5	2.23.2011	0925	SOIL	NONE	1-6 inch sleeve			X	X							
SL-010-SA5A-SS-0.0-0.5	2.23.2011	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-010-SA5A-SS-0.0-0.5	2.23.2011	0905	SOIL	NONE	1-6 inch sleeve			X	X							
SL-012-SA5A-SS-0.0-0.5	2.23.2011	1027	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-012-SA5A-SS-0.0-0.5	2.23.2011	1027	SOIL	NONE	1-6 inch sleeve			X	X							
SL-013-SA5A-SS-0.0-0.5	2.23.2011	0849	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-013-SA5A-SS-0.0-0.5	2.23.2011	0849	SOIL	NONE	1-6 inch sleeve			X	X							
SL-016-SA5A-SS-0.0-0.5	2.23.2011	0835	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-016-SA5A-SS-0.0-0.5	2.23.2011	0835	SOIL	NONE	1-6 inch sleeve			X	X							
SL-017-SA5A-SS-0.0-0.5	2.23.2011	1320	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-017-SA5A-SS-0.0-0.5	2.23.2011	1320	SOIL	NONE	1-6 inch sleeve			X	X							
SL-018-SA5A-SS-0.0-0.5	2.23.2011	1305	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-018-SA5A-SS-0.0-0.5	2.23.2011	1305	SOIL	NONE	1-6 inch sleeve			X	X							
SL-019-SA5A-SS-0.0-0.5	2.23.2011	1010	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-019-SA5A-SS-0.0-0.5	2.23.2011	1010	SOIL	NONE	1-6 inch sleeve			X	X							
EB01-SA5A-022311	2.23.2011	1450	WATER	NONE	6-1 liter ambers			X	X	X				X	X	Rinsate blank
EB01-SA5A-022311	2.23.2011	1450	WATER	NONE	1-500 mL poly	X										ASTM water lot number
EB01-SA5A-022311	2.23.2011	1450	WATER	HNO3	1-500 mL poly		X				X	X				

Relinquished by: (Signature) — Date/Time: 02/23/2011 / 17:00 — Received for Laboratory by: (Signature)

Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time: 2/24/11 0850 — Airbill No.(s): 8695 1432 3232; 8695 1432 3243; 8700 5935 3804; 8695 1432 0120

No. of coolers = 14

ORIGINAL

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/24/2011
Group Number: 1234469
SDG: DX055
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-04-SA5A-QC-022311 Soil	6214544
SL-001-SA5A-SS-0.0-0.5 Soil	6214545
SL-002-SA5A-SS-0.0-0.5 Soil	6214546
SL-004-SA5A-SS-0.0-0.5 Soil	6214547
SL-004-SA5A-SS-0.0-0.5MS Soil	6214548
SL-004-SA5A-SS-0.0-0.5MSD Soil	6214549
SL-006-SA5A-SS-0.0-0.5 Soil	6214550
SL-009-SA5A-SS-0.0-0.5 Soil	6214551
SL-010-SA5A-SS-0.0-0.5 Soil	6214552
SL-012-SA5A-SS-0.0-0.5 Soil	6214553
SL-013-SA5A-SS-0.0-0.5 Soil	6214554
SL-016-SA5A-SS-0.0-0.5 Soil	6214555
SL-017-SA5A-SS-0.0-0.5 Soil	6214556
SL-018-SA5A-SS-0.0-0.5 Soil	6214557
SL-019-SA5A-SS-0.0-0.5 Soil	6214558
EB01-SA5A-022311 Water	6214559

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-04-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5A-QC-022311

LLI Sample # SW 6214544
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5501 SDG#: DX055-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-04-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5A-QC-022311

LLI Sample # SW 6214544
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5501 SDG#: DX055-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.00997 U	0.00997	1.11	1
11031	12378-PeCDD	40321-76-4	0.0738 JBQ	0.0176	5.54	1
11031	123478-HxCDD	39227-28-6	0.141 JBQ	0.0483	5.54	1
11031	123678-HxCDD	57653-85-7	1.19 JB	0.0484	5.54	1
11031	123789-HxCDD	19408-74-3	0.455 JB	0.0415	5.54	1
11031	1234678-HpCDD	35822-46-9	37.1 B	0.0651	5.54	1
11031	OCDD	3268-87-9	388 B	0.0722	11.1	1
11031	2378-TCDF	51207-31-9	0.118 J	0.0580	1.11	1
11031	12378-PeCDF	57117-41-6	0.0659 JB	0.0237	5.54	1
11031	23478-PeCDF	57117-31-4	0.403 JB	0.0257	5.54	1
11031	123478-HxCDF	70648-26-9	1.01 JB	0.0658	5.54	1
11031	123678-HxCDF	57117-44-9	0.262 JB	0.0465	5.54	1
11031	123789-HxCDF	72918-21-9	0.191 JB	0.0404	5.54	1
11031	234678-HxCDF	60851-34-5	0.280 JB	0.0346	5.54	1
11031	1234678-HpCDF	67562-39-4	4.87 JB	0.0453	5.54	1
11031	1234789-HpCDF	55673-89-7	0.359 JB	0.0533	5.54	1
11031	OCDF	39001-02-0	12.4 B	0.0278	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	47	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	49	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-04-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5A-QC-022311

LLI Sample # SW 6214544
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5501 SDG#: DX055-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-04-SA5A-QC-022311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5A-QC-022311

LLI Sample # SW 6214544
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5501 SDG#: DX055-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/06/2011 09:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SS-0.0-0.5

LLI Sample # SW 6214545
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:53

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5502 SDG#: DX055-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SS-0.0-0.5

LLI Sample # SW 6214545
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:53

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5502 SDG#: DX055-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0216	JQ	0.0139	1.11	1
11031	12378-PeCDD	40321-76-4	0.0899	JQ	0.0208	5.54	1
11031	123478-HxCDD	39227-28-6	0.0975	JQ	0.0384	5.54	1
11031	123678-HxCDD	57653-85-7	0.512	J	0.0397	5.54	1
11031	123789-HxCDD	19408-74-3	0.373	J	0.0381	5.54	1
11031	1234678-HpCDD	35822-46-9	10.6		0.0453	5.54	1
11031	OCDD	3268-87-9	130		0.0425	11.1	1
11031	2378-TCDF	51207-31-9	1.05	J	0.154	1.11	1
11031	12378-PeCDF	57117-41-6	0.0972	J	0.0389	5.54	1
11031	23478-PeCDF	57117-31-4	0.471	J	0.0412	5.54	1
11031	123478-HxCDF	70648-26-9	0.821	J	0.0506	5.54	1
11031	123678-HxCDF	57117-44-9	0.163	J	0.0360	5.54	1
11031	123789-HxCDF	72918-21-9	0.202	J	0.0369	5.54	1
11031	234678-HxCDF	60851-34-5	0.178	J	0.0308	5.54	1
11031	1234678-HpCDF	67562-39-4	1.80	J	0.0285	5.54	1
11031	1234789-HpCDF	55673-89-7	0.208	JQ	0.0364	5.54	1
11031	OCDF	39001-02-0	3.67	J	0.0223	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-001-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SS-0.0-0.5

LLI Sample # SW 6214545
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:53

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5502 SDG#: DX055-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SS-0.0-0.5

LLI Sample # SW 6214545
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:53

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5502 SDG#: DX055-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/05/2011 13:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5A-SS-0.0-0.5

LLI Sample # SW 6214546
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:25

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5503 SDG#: DX055-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-002-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5A-SS-0.0-0.5

LLI Sample # SW 6214546
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:25

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5503 SDG#: DX055-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0325	J	0.0136	1.10	1
11031	12378-PeCDD	40321-76-4	0.115	J	0.0205	5.51	1
11031	123478-HxCDD	39227-28-6	0.125	J	0.0562	5.51	1
11031	123678-HxCDD	57653-85-7	1.12	J	0.0564	5.51	1
11031	123789-HxCDD	19408-74-3	0.444	J	0.0528	5.51	1
11031	1234678-HpCDD	35822-46-9	23.5		0.0622	5.51	1
11031	OCDD	3268-87-9	242		0.0487	11.0	1
11031	2378-TCDF	51207-31-9	0.120	U	0.120	1.10	1
11031	12378-PeCDF	57117-41-6	0.151	J	0.0343	5.51	1
11031	23478-PeCDF	57117-31-4	0.621	J	0.0346	5.51	1
11031	123478-HxCDF	70648-26-9	1.43	J	0.0708	5.51	1
11031	123678-HxCDF	57117-44-9	0.280	JQ	0.0496	5.51	1
11031	123789-HxCDF	72918-21-9	0.164	JQ	0.0469	5.51	1
11031	234678-HxCDF	60851-34-5	0.260	J	0.0411	5.51	1
11031	1234678-HpCDF	67562-39-4	3.81	J	0.0376	5.51	1
11031	1234789-HpCDF	55673-89-7	0.361	J	0.0416	5.51	1
11031	OCDF	39001-02-0	9.70	J	0.0291	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5A-SS-0.0-0.5

LLI Sample # SW 6214546
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:25

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5503 SDG#: DX055-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5A-SS-0.0-0.5

LLI Sample # SW 6214546
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:25

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5503 SDG#: DX055-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/05/2011 14:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214547
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5504 SDG#: DX055-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214547
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5504 SDG#: DX055-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0403	J	0.0141	1.12	1
11031	12378-PeCDD	40321-76-4	0.223	J	0.0248	5.59	1
11031	123478-HxCDD	39227-28-6	0.328	J	0.0803	5.59	1
11031	123678-HxCDD	57653-85-7	4.46	J	0.0762	5.59	1
11031	123789-HxCDD	19408-74-3	1.46	J	0.0708	5.59	1
11031	1234678-HpCDD	35822-46-9	164		0.138	5.59	1
11031	OCDD	3268-87-9	1,410		0.0941	11.2	1
11031	2378-TCDF	51207-31-9	0.309	J	0.0701	1.12	1
11031	12378-PeCDF	57117-41-6	0.0814	J	0.0306	5.59	1
11031	23478-PeCDF	57117-31-4	0.517	J	0.0311	5.59	1
11031	123478-HxCDF	70648-26-9	1.37	J	0.0914	5.59	1
11031	123678-HxCDF	57117-44-9	0.552	J	0.0659	5.59	1
11031	123789-HxCDF	72918-21-9	0.227	J	0.0500	5.59	1
11031	234678-HxCDF	60851-34-5	0.577	J	0.0452	5.59	1
11031	1234678-HpCDF	67562-39-4	10.7		0.0801	5.59	1
11031	1234789-HpCDF	55673-89-7	0.780	J	0.0737	5.59	1
11031	OCDF	39001-02-0	25.0		0.0427	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	47	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214547
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5504 SDG#: DX055-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214547
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5504 SDG#: DX055-04BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/05/2011 15:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	2	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214548
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5504 SDG#: DX055-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214548
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5504 SDG#: DX055-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	24.0	0.0205	1.12	1
11031	12378-PeCDD	40321-76-4	117	0.0323	5.59	1
11031	123478-HxCDD	39227-28-6	116	0.0899	5.59	1
11031	123678-HxCDD	57653-85-7	117	0.0891	5.59	1
11031	123789-HxCDD	19408-74-3	116	0.0832	5.59	1
11031	1234678-HpCDD	35822-46-9	218	0.127	5.59	1
11031	OCDD	3268-87-9	1,260	0.107	11.2	1
11031	2378-TCDF	51207-31-9	25.0	0.0950	1.12	1
11031	12378-PeCDF	57117-41-6	113	0.0500	5.59	1
11031	23478-PeCDF	57117-31-4	115	0.0494	5.59	1
11031	123478-HxCDF	70648-26-9	118	0.0764	5.59	1
11031	123678-HxCDF	57117-44-9	116	0.0578	5.59	1
11031	123789-HxCDF	72918-21-9	117	0.0569	5.59	1
11031	234678-HxCDF	60851-34-5	115	0.0512	5.59	1
11031	1234678-HpCDF	67562-39-4	123	0.0823	5.59	1
11031	1234789-HpCDF	55673-89-7	115	0.0970	5.59	1
11031	OCDF	39001-02-0	252	0.0672	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214548
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5504 SDG#: DX055-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-004-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214548
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5504 SDG#: DX055-04MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/05/2011 16:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	2	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214549
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5504 SDG#: DX055-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214549
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5504 SDG#: DX055-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	24.3	0.0264	1.12	1
11031	12378-PeCDD	40321-76-4	120	0.0588	5.59	1
11031	123478-HxCDD	39227-28-6	119	0.142	5.59	1
11031	123678-HxCDD	57653-85-7	126	0.140	5.59	1
11031	123789-HxCDD	19408-74-3	121	0.131	5.59	1
11031	1234678-HpCDD	35822-46-9	571	0.187	5.59	1
11031	OCDD	3268-87-9	4,220	0.201	11.2	1
11031	2378-TCDF	51207-31-9	25.5	0.131	1.12	1
11031	12378-PeCDF	57117-41-6	116	0.0547	5.59	1
11031	23478-PeCDF	57117-31-4	115	0.0525	5.59	1
11031	123478-HxCDF	70648-26-9	121	0.151	5.59	1
11031	123678-HxCDF	57117-44-9	118	0.112	5.59	1
11031	123789-HxCDF	72918-21-9	116	0.101	5.59	1
11031	234678-HxCDF	60851-34-5	119	0.0832	5.59	1
11031	1234678-HpCDF	67562-39-4	135	0.0985	5.59	1
11031	1234789-HpCDF	55673-89-7	117	0.0949	5.59	1
11031	OCDF	39001-02-0	270	0.0751	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	50	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214549
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5504 SDG#: DX055-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5A-SS-0.0-0.5

LLI Sample # SW 6214549
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5504 SDG#: DX055-04MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/05/2011 17:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	2	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SS-0.0-0.5

LLI Sample # SW 6214550
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:14

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5505 SDG#: DX055-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SS-0.0-0.5

LLI Sample # SW 6214550
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:14

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5505 SDG#: DX055-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0305 J	0.0136	1.13	1
11031	12378-PeCDD	40321-76-4	0.0524 JQ	0.0158	5.66	1
11031	123478-HxCDD	39227-28-6	0.0611 J	0.0256	5.66	1
11031	123678-HxCDD	57653-85-7	0.159 J	0.0248	5.66	1
11031	123789-HxCDD	19408-74-3	0.130 JQ	0.0219	5.66	1
11031	1234678-HpCDD	35822-46-9	3.29 J	0.0421	5.66	1
11031	OCDD	3268-87-9	40.4	0.0308	11.3	1
11031	2378-TCDF	51207-31-9	0.0259 U	0.0259	1.13	1
11031	12378-PeCDF	57117-41-6	0.0257 JQ	0.0122	5.66	1
11031	23478-PeCDF	57117-31-4	0.0702 JQ	0.0136	5.66	1
11031	123478-HxCDF	70648-26-9	0.245 J	0.0240	5.66	1
11031	123678-HxCDF	57117-44-9	0.0676 JQ	0.0156	5.66	1
11031	123789-HxCDF	72918-21-9	0.0956 J	0.0148	5.66	1
11031	234678-HxCDF	60851-34-5	0.0475 J	0.0118	5.66	1
11031	1234678-HpCDF	67562-39-4	0.416 J	0.0264	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0779 J	0.0319	5.66	1
11031	OCDF	39001-02-0	1.12 J	0.0423	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SS-0.0-0.5

LLI Sample # SW 6214550
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:14

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5505 SDG#: DX055-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SS-0.0-0.5

LLI Sample # SW 6214550
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 11:14

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5505 SDG#: DX055-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/05/2011 18:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5A-SS-0.0-0.5

LLI Sample # SW 6214551
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:25

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5506 SDG#: DX055-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5A-SS-0.0-0.5

LLI Sample # SW 6214551
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:25

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5506 SDG#: DX055-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0279	JQ	0.0153	1.13	1
11031	12378-PeCDD	40321-76-4	0.110	JQ	0.0259	5.63	1
11031	123478-HxCDD	39227-28-6	0.207	J	0.0654	5.63	1
11031	123678-HxCDD	57653-85-7	0.745	J	0.0597	5.63	1
11031	123789-HxCDD	19408-74-3	0.513	J	0.0506	5.63	1
11031	1234678-HpCDD	35822-46-9	20.4		0.0823	5.63	1
11031	OCDD	3268-87-9	274		0.0573	11.3	1
11031	2378-TCDF	51207-31-9	0.0590	U	0.0590	1.13	1
11031	12378-PeCDF	57117-41-6	0.0892	J	0.0300	5.63	1
11031	23478-PeCDF	57117-31-4	0.508	J	0.0327	5.63	1
11031	123478-HxCDF	70648-26-9	0.231	JQ	0.0855	5.63	1
11031	123678-HxCDF	57117-44-9	0.360	JQ	0.0651	5.63	1
11031	123789-HxCDF	72918-21-9	0.274	JQ	0.0482	5.63	1
11031	234678-HxCDF	60851-34-5	0.225	J	0.0384	5.63	1
11031	1234678-HpCDF	67562-39-4	2.84	J	0.0634	5.63	1
11031	1234789-HpCDF	55673-89-7	0.284	J	0.0529	5.63	1
11031	OCDF	39001-02-0	5.78	J	0.0473	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	58	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	39	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5A-SS-0.0-0.5

LLI Sample # SW 6214551
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:25

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5506 SDG#: DX055-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5A-SS-0.0-0.5

LLI Sample # SW 6214551
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:25

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5506 SDG#: DX055-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/05/2011 19:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5A-SS-0.0-0.5

LLI Sample # SW 6214552
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:05

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5507 SDG#: DX055-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5A-SS-0.0-0.5

LLI Sample # SW 6214552
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:05

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5507 SDG#: DX055-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0229	JQ	0.0149	1.11	1
11031	12378-PeCDD	40321-76-4	0.174	J	0.0187	5.53	1
11031	123478-HxCDD	39227-28-6	0.338	J	0.0537	5.53	1
11031	123678-HxCDD	57653-85-7	0.772	J	0.0529	5.53	1
11031	123789-HxCDD	19408-74-3	0.547	J	0.0522	5.53	1
11031	1234678-HpCDD	35822-46-9	20.6		0.0506	5.53	1
11031	OCDD	3268-87-9	263		0.0492	11.1	1
11031	2378-TCDF	51207-31-9	0.0160	U	0.0160	1.11	1
11031	12378-PeCDF	57117-41-6	0.0350	JQ	0.00841	5.53	1
11031	23478-PeCDF	57117-31-4	0.0808	JQ	0.00907	5.53	1
11031	123478-HxCDF	70648-26-9	0.242	J	0.0450	5.53	1
11031	123678-HxCDF	57117-44-9	0.174	J	0.0288	5.53	1
11031	123789-HxCDF	72918-21-9	0.0836	J	0.0341	5.53	1
11031	234678-HxCDF	60851-34-5	0.192	J	0.0249	5.53	1
11031	1234678-HpCDF	67562-39-4	3.88	J	0.0279	5.53	1
11031	1234789-HpCDF	55673-89-7	0.265	JQ	0.0407	5.53	1
11031	OCDF	39001-02-0	11.0	J	0.0438	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5A-SS-0.0-0.5

LLI Sample # SW 6214552
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:05

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5507 SDG#: DX055-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5A-SS-0.0-0.5

LLI Sample # SW 6214552
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:05

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5507 SDG#: DX055-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/05/2011 20:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SS-0.0-0.5

LLI Sample # SW 6214553
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:27

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5508 SDG#: DX055-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SS-0.0-0.5

LLI Sample # SW 6214553
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:27

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5508 SDG#: DX055-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0158	J	0.0131	1.19	1
11031	12378-PeCDD	40321-76-4	0.0909	J	0.0214	5.94	1
11031	123478-HxCDD	39227-28-6	0.166	J	0.0461	5.94	1
11031	123678-HxCDD	57653-85-7	0.489	J	0.0473	5.94	1
11031	123789-HxCDD	19408-74-3	0.352	J	0.0451	5.94	1
11031	1234678-HpCDD	35822-46-9	14.0		0.0489	5.94	1
11031	OCDD	3268-87-9	201		0.0571	11.9	1
11031	2378-TCDF	51207-31-9	0.0505	J	0.0303	1.19	1
11031	12378-PeCDF	57117-41-6	0.0388	J	0.0156	5.94	1
11031	23478-PeCDF	57117-31-4	0.157	J	0.0179	5.94	1
11031	123478-HxCDF	70648-26-9	0.764	J	0.0474	5.94	1
11031	123678-HxCDF	57117-44-9	0.150	J	0.0324	5.94	1
11031	123789-HxCDF	72918-21-9	0.115	JQ	0.0399	5.94	1
11031	234678-HxCDF	60851-34-5	0.140	J	0.0289	5.94	1
11031	1234678-HpCDF	67562-39-4	1.80	J	0.0289	5.94	1
11031	1234789-HpCDF	55673-89-7	0.166	JQ	0.0424	5.94	1
11031	OCDF	39001-02-0	4.94	J	0.0359	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SS-0.0-0.5

LLI Sample # SW 6214553
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:27

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5508 SDG#: DX055-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SS-0.0-0.5

LLI Sample # SW 6214553
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:27

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5508 SDG#: DX055-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/05/2011 21:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401A	03/04/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-013-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SS-0.0-0.5

LLI Sample # SW 6214554
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:49

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5509 SDG#: DX055-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SS-0.0-0.5

LLI Sample # SW 6214554
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:49

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5509 SDG#: DX055-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0178	JQ	0.0109	1.12	1
11031	12378-PeCDD	40321-76-4	0.100	JB	0.0134	5.62	1
11031	123478-HxCDD	39227-28-6	0.146	JB	0.0427	5.62	1
11031	123678-HxCDD	57653-85-7	0.381	JB	0.0427	5.62	1
11031	123789-HxCDD	19408-74-3	0.281	JB	0.0409	5.62	1
11031	1234678-HpCDD	35822-46-9	11.4	B	0.0435	5.62	1
11031	OCDD	3268-87-9	158	B	0.0407	11.2	1
11031	2378-TCDF	51207-31-9	0.0152	JQ	0.0134	1.12	1
11031	12378-PeCDF	57117-41-6	0.0271	JBQ	0.00787	5.62	1
11031	23478-PeCDF	57117-31-4	0.0858	JBQ	0.00844	5.62	1
11031	123478-HxCDF	70648-26-9	0.177	JB	0.0304	5.62	1
11031	123678-HxCDF	57117-44-9	0.0970	JBQ	0.0215	5.62	1
11031	123789-HxCDF	72918-21-9	0.0896	JBQ	0.0225	5.62	1
11031	234678-HxCDF	60851-34-5	0.115	JB	0.0199	5.62	1
11031	1234678-HpCDF	67562-39-4	1.98	JB	0.0237	5.62	1
11031	1234789-HpCDF	55673-89-7	0.203	JB	0.0334	5.62	1
11031	OCDF	39001-02-0	7.62	JB	0.0265	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	35	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SS-0.0-0.5

LLI Sample # SW 6214554
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:49

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5509 SDG#: DX055-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SS-0.0-0.5

LLI Sample # SW 6214554
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 09:49

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5509 SDG#: DX055-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/06/2011 13:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401B	03/04/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5A-SS-0.0-0.5

LLI Sample # SW 6214555
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 08:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5510 SDG#: DX055-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5A-SS-0.0-0.5

LLI Sample # SW 6214555
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 08:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5510 SDG#: DX055-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.143 JQ	0.0462	1.14	1
11031	12378-PeCDD	40321-76-4	2.69 JB	0.0879	5.68	1
11031	123478-HxCDD	39227-28-6	5.52 JB	0.239	5.68	1
11031	123678-HxCDD	57653-85-7	66.8 B	0.238	5.68	1
11031	123789-HxCDD	19408-74-3	18.2 B	0.215	5.68	1
11031	1234678-HpCDD	35822-46-9	6,140 EB	0.544	5.68	1
11031	OCDD	3268-87-9	75,800 EB	0.917	11.4	1
11031	2378-TCDF	51207-31-9	0.111 JQ	0.0311	1.14	1
11031	12378-PeCDF	57117-41-6	0.321 JB	0.0271	5.68	1
11031	23478-PeCDF	57117-31-4	1.03 JB	0.0278	5.68	1
11031	123478-HxCDF	70648-26-9	3.88 JB	0.166	5.68	1
11031	123678-HxCDF	57117-44-9	2.62 JB	0.135	5.68	1
11031	123789-HxCDF	72918-21-9	1.71 JB	0.107	5.68	1
11031	234678-HxCDF	60851-34-5	3.83 JB	0.0950	5.68	1
11031	1234678-HpCDF	67562-39-4	168 B	0.194	5.68	1
11031	1234789-HpCDF	55673-89-7	12.3 B	0.176	5.68	1
11031	OCDF	39001-02-0	564 B	0.110	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	45	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	82	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5A-SS-0.0-0.5

LLI Sample # SW 6214555
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 08:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5510 SDG#: DX055-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5A-SS-0.0-0.5

LLI Sample # SW 6214555
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 08:35

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5510 SDG#: DX055-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/06/2011 14:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401B	03/04/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5A-SS-0.0-0.5

LLI Sample # SW 6214556
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:20

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5511 SDG#: DX055-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5A-SS-0.0-0.5

LLI Sample # SW 6214556
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:20

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5511 SDG#: DX055-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0257	JQ	0.0156	1.11	1
11031	12378-PeCDD	40321-76-4	0.138	JBQ	0.0255	5.55	1
11031	123478-HxCDD	39227-28-6	0.305	JB	0.0831	5.55	1
11031	123678-HxCDD	57653-85-7	1.71	JB	0.0744	5.55	1
11031	123789-HxCDD	19408-74-3	0.694	JB	0.0623	5.55	1
11031	1234678-HpCDD	35822-46-9	47.9	B	0.120	5.55	1
11031	OCDD	3268-87-9	770	B	0.129	11.1	1
11031	2378-TCDF	51207-31-9	0.128	J	0.0748	1.11	1
11031	12378-PeCDF	57117-41-6	0.164	JB	0.0351	5.55	1
11031	23478-PeCDF	57117-31-4	0.642	JB	0.0377	5.55	1
11031	123478-HxCDF	70648-26-9	1.75	JB	0.117	5.55	1
11031	123678-HxCDF	57117-44-9	0.383	JB	0.0849	5.55	1
11031	123789-HxCDF	72918-21-9	0.276	JB	0.0592	5.55	1
11031	234678-HxCDF	60851-34-5	0.394	JB	0.0542	5.55	1
11031	1234678-HpCDF	67562-39-4	6.27	B	0.0929	5.55	1
11031	1234789-HpCDF	55673-89-7	0.578	JB	0.0751	5.55	1
11031	OCDF	39001-02-0	16.5	B	0.0529	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	56	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	44	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	33	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	36	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5A-SS-0.0-0.5

LLI Sample # SW 6214556
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:20

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5511 SDG#: DX055-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-017-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5A-SS-0.0-0.5

LLI Sample # SW 6214556
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:20

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5511 SDG#: DX055-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/06/2011 15:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401B	03/04/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-018-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5A-SS-0.0-0.5

LLI Sample # SW 6214557
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:05

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5512 SDG#: DX055-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5A-SS-0.0-0.5

LLI Sample # SW 6214557
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:05

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5512 SDG#: DX055-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0192	JQ	0.0123	1.11	1
11031	12378-PeCDD	40321-76-4	0.0732	JB	0.0217	5.56	1
11031	123478-HxCDD	39227-28-6	0.0751	U	0.0751	5.56	1
11031	123678-HxCDD	57653-85-7	1.62	JB	0.0745	5.56	1
11031	123789-HxCDD	19408-74-3	0.633	JB	0.0687	5.56	1
11031	1234678-HpCDD	35822-46-9	30.0	B	0.0945	5.56	1
11031	OCDD	3268-87-9	445	B	0.0715	11.1	1
11031	2378-TCDF	51207-31-9	0.0677	U	0.0677	1.11	1
11031	12378-PeCDF	57117-41-6	0.0876	JBQ	0.0296	5.56	1
11031	23478-PeCDF	57117-31-4	0.579	JB	0.0316	5.56	1
11031	123478-HxCDF	70648-26-9	1.11	JB	0.0841	5.56	1
11031	123678-HxCDF	57117-44-9	0.425	JB	0.0578	5.56	1
11031	123789-HxCDF	72918-21-9	0.240	JB	0.0542	5.56	1
11031	234678-HxCDF	60851-34-5	0.288	JB	0.0479	5.56	1
11031	1234678-HpCDF	67562-39-4	5.66	B	0.0554	5.56	1
11031	1234789-HpCDF	55673-89-7	0.394	JB	0.0596	5.56	1
11031	OCDF	39001-02-0	10.2	JB	0.0385	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	50	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5A-SS-0.0-0.5

LLI Sample # SW 6214557
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:05

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5512 SDG#: DX055-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5A-SS-0.0-0.5

LLI Sample # SW 6214557
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 13:05

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5512 SDG#: DX055-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/06/2011 16:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401B	03/04/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5A-SS-0.0-0.5

LLI Sample # SW 6214558
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:10

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5513 SDG#: DX055-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	20.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-019-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5A-SS-0.0-0.5

LLI Sample # SW 6214558
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:10

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5513 SDG#: DX055-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.317	J	0.0275	1.25	1
11031	12378-PeCDD	40321-76-4	2.63	JB	0.0862	6.26	1
11031	123478-HxCDD	39227-28-6	5.39	JB	0.113	6.26	1
11031	123678-HxCDD	57653-85-7	15.4	B	0.107	6.26	1
11031	123789-HxCDD	19408-74-3	9.26	B	0.0990	6.26	1
11031	1234678-HpCDD	35822-46-9	544	B	0.230	6.26	1
11031	OCDD	3268-87-9	8,360	EB	0.309	12.5	1
11031	2378-TCDF	51207-31-9	0.287	J	0.0551	1.25	1
11031	12378-PeCDF	57117-41-6	0.715	JB	0.0398	6.26	1
11031	23478-PeCDF	57117-31-4	1.58	JB	0.0389	6.26	1
11031	123478-HxCDF	70648-26-9	4.79	JB	0.162	6.26	1
11031	123678-HxCDF	57117-44-9	3.26	JB	0.123	6.26	1
11031	123789-HxCDF	72918-21-9	1.55	JB	0.0994	6.26	1
11031	234678-HxCDF	60851-34-5	2.91	JB	0.0817	6.26	1
11031	1234678-HpCDF	67562-39-4	71.9	B	0.158	6.26	1
11031	1234789-HpCDF	55673-89-7	5.91	JB	0.135	6.26	1
11031	OCDF	39001-02-0	293	B	0.0992	12.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	48	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	43	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5A-SS-0.0-0.5

LLI Sample # SW 6214558
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:10

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5513 SDG#: DX055-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5A-SS-0.0-0.5

LLI Sample # SW 6214558
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 10:10

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5513 SDG#: DX055-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/06/2011 17:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162401B	03/04/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB01-SA5A-022311 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5A-022311

LLI Sample # WW 6214559
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:50

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5514 SDG#: DX055-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.107	JQ	0.103	2.11	1
10915	12378-PeCDD	40321-76-4	0.112	U	0.112	10.6	1
10915	123478-HxCDD	39227-28-6	0.105	U	0.105	10.6	1
10915	123678-HxCDD	57653-85-7	0.172	JBQ	0.109	10.6	1
10915	123789-HxCDD	19408-74-3	0.103	U	0.103	10.6	1
10915	1234678-HpCDD	35822-46-9	1.68	JBQ	0.148	10.6	1
10915	OCDD	3268-87-9	4.71	JB	0.333	21.1	1
10915	2378-TCDF	51207-31-9	0.132	JBQ	0.0652	2.11	1
10915	12378-PeCDF	57117-41-6	0.161	JBQ	0.0606	10.6	1
10915	23478-PeCDF	57117-31-4	0.398	JB	0.0563	10.6	1
10915	123478-HxCDF	70648-26-9	0.190	JBQ	0.0699	10.6	1
10915	123678-HxCDF	57117-44-9	0.136	JBQ	0.0620	10.6	1
10915	123789-HxCDF	72918-21-9	0.153	JBQ	0.0690	10.6	1
10915	234678-HxCDF	60851-34-5	0.238	JB	0.0590	10.6	1
10915	1234678-HpCDF	67562-39-4	0.322	JB	0.0944	10.6	1
10915	1234789-HpCDF	55673-89-7	0.119	U	0.119	10.6	1
10915	OCDF	39001-02-0	0.501	JBQ	0.194	21.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	57	25 - 181
13C12-123478-HxCDD	55	32 - 141
13C12-123678-HxCDD	54	28 - 130
13C12-123789-HxCDD	55	28 - 130
13C12-1234678-HpCDD	43	23 - 140
13C12-OCDD	29	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	56	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	53	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	38	26 - 138
13C12-OCDF	26	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB01-SA5A-022311 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5A-022311

LLI Sample # WW 6214559
LLI Group # 1234469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/23/2011 14:50

Submitted: 02/24/2011 08:50
Reported: 03/12/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5514 SDG#: DX055-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11061001	03/06/2011 03:50	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11061001	03/02/2011 07:45	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234469
Reported: 03/12/11 at 12:01 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11063162401A	Sample number(s): 6214544-6214546,6214550-6214553								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11063162401B	Sample number(s): 6214554-6214558								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11066162401A	Sample number(s): 6214547-6214549								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11060001	Sample number(s): 6214544-6214558								
2378-TCDD	0.00920 U	0.00920	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0125 J	0.00930	5.00	ng/kg	106		70-142		
123478-HxCDD	0.0135 J	0.00970	5.00	ng/kg	106		70-164		
123678-HxCDD	0.0102 J	0.00940	5.00	ng/kg	106		76-134		
123789-HxCDD	0.00946 J	0.00850	5.00	ng/kg	105		64-162		
1234678-HpCDD	0.118 J	0.0122	5.00	ng/kg	106		70-140		
OCDD	0.377 J	0.0224	10.0	ng/kg	106		78-144		
2378-TCDF	0.00810 U	0.00810	1.00	ng/kg	117		75-158		
12378-PeCDF	0.0121 J	0.00470	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0394 J	0.00550	5.00	ng/kg	105		68-160		
123478-HxCDF	0.0267 J	0.0110	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0145 J	0.00680	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0364 J	0.00790	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0191 J	0.00560	5.00	ng/kg	106		70-156		
1234678-HpCDF	0.0509 J	0.0114	5.00	ng/kg	104		82-122		
1234789-HpCDF	0.0321 J	0.0184	5.00	ng/kg	107		78-138		
OCDF	0.112 J	0.0230	10.0	ng/kg	106		63-170		
Batch number: 11061001	Sample number(s): 6214559								
2378-TCDD	0.0945 U	0.0945	2.00	pg/l	108		67-158		
12378-PeCDD	0.301 J	0.0816	10.0	pg/l	105		70-142		
123478-HxCDD	0.151 J	0.0941	10.0	pg/l	108		70-164		
123678-HxCDD	0.243 J	0.0973	10.0	pg/l	106		76-134		
123789-HxCDD	0.274 J	0.0966	10.0	pg/l	108		64-162		
1234678-HpCDD	1.78 J	0.133	10.0	pg/l	108		70-140		
OCDD	4.41 J	0.223	20.0	pg/l	110		78-144		
2378-TCDF	0.105 J	0.0686	2.00	pg/l	111		75-158		
12378-PeCDF	0.224 J	0.0443	10.0	pg/l	106		80-134		
23478-PeCDF	0.439 J	0.0444	10.0	pg/l	107		68-160		
123478-HxCDF	0.374 J	0.0547	10.0	pg/l	109		72-134		
123678-HxCDF	0.231 J	0.0500	10.0	pg/l	108		84-130		
123789-HxCDF	0.222 J	0.0591	10.0	pg/l	107		78-130		
234678-HxCDF	0.212 J	0.0499	10.0	pg/l	108		70-156		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234469
Reported: 03/12/11 at 12:01 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234678-HpCDF	0.346	J	0.0659	10.0	pg/l	108		82-122		
1234789-HpCDF	0.421	J	0.0749	10.0	pg/l	108		78-138		
OCDF	0.659	J	0.129	20.0	pg/l	110		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11063162401A	Sample number(s): 6214544-6214546,6214550-6214553 BKG: P214520								
28a Moisture Content by 160.3						9.7	8.1	18	20
Batch number: 11063162401B	Sample number(s): 6214554-6214558 BKG: P214528								
28a Moisture Content by 160.3						11.1	11.1	0	20
Batch number: 11066162401A	Sample number(s): 6214547-6214549 BKG: P214520								
28a Moisture Content by 160.3						10.6	10.1	5	20
Batch number: 11060001	Sample number(s): 6214544-6214558 UNSPK: 6214547								
2378-TCDD	107	108	67-158	1	25				
12378-PeCDD	104	107	70-142	3	25				
123478-HxCDD	104	106	70-164	2	25				
123678-HxCDD	100	109	76-134	8	25				
123789-HxCDD	103	107	64-162	4	25				
1234678-HpCDD	49*	364*	70-140	89*	25				
OCDD	-68 (2)	1254 (2)	78-144	108*	25				
2378-TCDF	110	113	75-158	2	25				
12378-PeCDF	101	103	80-134	2	25				
23478-PeCDF	102	103	68-160	0	25				
123478-HxCDF	104	107	72-134	3	25				
123678-HxCDF	103	105	84-130	2	25				
123789-HxCDF	104	103	78-130	1	25				
234678-HxCDF	102	106	70-156	3	25				
1234678-HpCDF	101	111	82-122	9	25				
1234789-HpCDF	102	104	78-138	2	25				
OCDF	101	109	63-170	7	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11060001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6214544	76	68	37	52	70	65
6214545	77	76	50	68	75	72
6214546	78	75	45	61	76	73

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234469
Reported: 03/12/11 at 12:01 PM

Surrogate Quality Control

6214547	78	73	37	50	75	73
6214548	81	77	55	69	79	75
6214549	77	76	47	60	77	76
6214550	77	71	36	53	72	62
6214551	74	70	36	47	75	71
6214552	75	75	40	61	70	57
6214553	76	68	46	68	70	59
6214554	76	70	46	64	70	68
6214555	78	74	49	60	82	80
6214556	75	64	33	45	73	69
6214557	78	71	42	59	73	69
6214558	78	75	42	55	78	75
Blank	61	50	29	47	53	44
MS	81	77	55	69	79	75
MSD	77	76	47	60	77	76
OPR	71	68	41	60	72	63

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6214544	49	49	34	87	74	65
6214545	64	56	45	92	79	76
6214546	59	60	46	88	79	72
6214547	47	58	44	92	76	66
6214548	64	62	49	89	80	79
6214549	50	60	45	90	78	71
6214550	52	50	37	87	76	66
6214551	39	55	37	85	77	58
6214552	63	50	38	88	82	71
6214553	64	49	38	85	75	74
6214554	58	49	35	90	74	70
6214555	48	60	39	90	77	69
6214556	36	53	34	84	71	56
6214557	50	53	39	86	75	71
6214558	43	59	42	90	79	68
Blank	47	33	23	76	62	57
MS	64	62	49	89	80	79
MSD	50	60	45	90	78	71
OPR	62	54	43	83	75	71

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6214544	70	76	62	47	73	78
6214545	78	79	69	58	76	85
6214546	76	79	71	59	76	83
6214547	73	79	68	56	77	80
6214548	81	82	72	58	79	83
6214549	77	78	66	52	78	79
6214550	72	77	66	54	75	84
6214551	67	77	62	50	76	78
6214552	76	77	71	60	72	88
6214553	77	76	66	51	73	81
6214554	74	76	64	49	74	81

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234469
Reported: 03/12/11 at 12:01 PM

Surrogate Quality Control

6214555	73	81	63	45	81	79
6214556	65	76	59	44	74	74
6214557	74	77	64	49	75	79
6214558	76	79	64	48	79	80
Blank	63	65	55	42	51	63
MS	81	82	72	58	79	83
MSD	77	78	66	52	78	79
OPR	77	79	70	59	65	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11061001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6214559	61	56	47	52	53	52
Blank	59	61	56	60	59	55
OPR	68	67	52	61	72	66
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6214559	42	38	26	84	57	55
Blank	49	48	37	83	62	61
OPR	49	50	35	88	66	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6214559	54	55	43	29	61	56
Blank	61	58	50	36	60	63
OPR	69	68	55	40	70	67
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1234469 sample# 6214544-59

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 8650 (10%)	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
DUP-04-SA5A-QC-022311	2.23.2011	1335	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
DUP-04-SA5A-QC-022311	2.23.2011	1335	SOIL	NONE	1-6 inch sleeve			X	X							
SL-001-SA5A-SS-0.0-0.5	2.23.2011	1353	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-001-SA5A-SS-0.0-0.5	2.23.2011	1353	SOIL	NONE	1-6 inch sleeve			X	X							
SL-002-SA5A-SS-0.0-0.5	2.23.2011	1425	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-002-SA5A-SS-0.0-0.5	2.23.2011	1425	SOIL	NONE	1-6 inch sleeve			X	X							
SL-004-SA5A-SS-0.0-0.5MS	2.23.2011	1335	SOIL	NONE	2-16 oz jars	X	X			X	X	X		X	X	MS/MSD Sample
SL-004-SA5A-SS-0.0-0.5MS	2.23.2011	1335	SOIL	NONE	2-6 inch sleeves			X	X							MS/MSD Sample
SL-009-SA5A-SS-0.0-0.5	2.23.2011	1114	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-009-SA5A-SS-0.0-0.5	2.23.2011	1114	SOIL	NONE	1-6 inch sleeve			X	X							
SL-009-SA5A-SS-0.0-0.5	2.23.2011	0925	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-009-SA5A-SS-0.0-0.5	2.23.2011	0925	SOIL	NONE	1-6 inch sleeve			X	X							
SL-010-SA5A-SS-0.0-0.5	2.23.2011	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-010-SA5A-SS-0.0-0.5	2.23.2011	0905	SOIL	NONE	1-6 inch sleeve			X	X							
SL-012-SA5A-SS-0.0-0.5	2.23.2011	1027	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-012-SA5A-SS-0.0-0.5	2.23.2011	1027	SOIL	NONE	1-6 inch sleeve			X	X							
SL-013-SA5A-SS-0.0-0.5	2.23.2011	0949	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-013-SA5A-SS-0.0-0.5	2.23.2011	0949	SOIL	NONE	1-6 inch sleeve			X	X							
SL-016-SA5A-SS-0.0-0.5	2.23.2011	0835	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-016-SA5A-SS-0.0-0.5	2.23.2011	0835	SOIL	NONE	1-6 inch sleeve			X	X							
SL-017-SA5A-SS-0.0-0.5	2.23.2011	1320	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-017-SA5A-SS-0.0-0.5	2.23.2011	1320	SOIL	NONE	1-6 inch sleeve			X	X							
SL-018-SA5A-SS-0.0-0.5	2.23.2011	1305	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-018-SA5A-SS-0.0-0.5	2.23.2011	1305	SOIL	NONE	1-6 inch sleeve			X	X							
SL-019-SA5A-SS-0.0-0.5	2.23.2011	1010	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-019-SA5A-SS-0.0-0.5	2.23.2011	1010	SOIL	NONE	1-6 inch sleeve			X	X							
EB01-SA5A-022311	2.23.2011	1450	WATER	NONE	6-1 liter ambers			X	X	X				X	X	Rinsate blank
EB01-SA5A-022311	2.23.2011	1450	WATER	NONE	1-500 mL poly	X										ASTM water lot number
EB01-SA5A-022311	2.23.2011	1450	WATER	HNO3	1-500 mL poly		X				X	X				

Relinquished by: (Signature) — Date/Time: 02/23/2011 / 17:00 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 2/24/11 0850 — Airbill No.(s): 8695 1432 3232; 8695 1432 3243; 8700 5935 3804; 8695 1432 0120

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 14

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 25, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/25/2011
Group Number: 1234760
SDG: DE091
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-007-SA5A-SS-0.0-0.5 Soil	6216199
SL-008-SA5A-SS-0.0-0.5 Soil	6216200
SL-110-SA5A-SS-0.0-0.5 Soil	6216201
SL-119-SA5A-SS-0.0-0.5 Soil	6216202
SL-120-SA5A-SS-0.0-0.5 Soil	6216203
SL-121-SA5A-SS-0.0-0.5 Soil	6216204
SL-136-SA5A-SS-0.0-0.5 Soil	6216205
SL-137-SA5A-SS-0.0-0.5 Soil	6216206
SL-138-SA5A-SS-0.0-0.5 Soil	6216207
SL-143-SA5A-SS-0.0-0.5 Soil	6216208
SL-233-SA5A-SS-0.0-0.5 Soil	6216209
SL-250-SA5A-SS-0.0-0.5 Soil	6216210
SL-251-SA5A-SS-0.0-0.5 Soil	6216211
SL-021-SA5A-SB-3.0-4.0 Soil	6216212
SL-022-SA5A-SB-4.0-5.0 Soil	6216213
SL-050-SA5A-SB-4.0-5.0 Soil	6216214
TB-022411 Water	6216215
SL-122-SA5A-SS-0.0-0.5 Soil	6216216

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SS-0.0-0.5

LLI Sample # SW 6216199
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 08:45

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE091-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SS-0.0-0.5

LLI Sample # SW 6216199
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 08:45

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE091-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	1.0	U	1.0	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	170	J	85	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.15	J	0.084	0.19	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SS-0.0-0.5

LLI Sample # SW 6216199
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 08:45

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE091-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.11	J	0.074	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, BKG/MS/MSD, and sample is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,200		5.61	22.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SS-0.0-0.5

LLI Sample # SW 6216199
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 08:45

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE091-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	5.09	J	0.993	5.58	1
01650	Calcium	7440-70-2	2,950		6.84	22.3	1
01654	Iron	7439-89-6	21,000		5.26	22.3	1
01656	Lithium	7439-93-2	24.9		0.25	2.2	1
01657	Magnesium	7439-95-4	4,530		2.83	11.2	1
06958	Manganese	7439-96-5	368		0.0871	0.558	1
10145	Phosphorus	7723-14-0	375		0.625	11.2	1
01662	Potassium	7440-09-7	3,670		20.1	55.8	1
01667	Sodium	7440-23-5	58.5	J	41.6	112	1
07968	Strontium	7440-24-6	22.5		0.0692	0.558	1
06969	Tin	7440-31-5	2.99	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,400		0.424	1.12	1
10146	Zirconium	7440-67-7	2.13	J	0.938	5.58	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.221		0.0644	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.43		0.0859	0.429	2
06126	Barium	7440-39-3	116		0.116	0.429	2
06127	Beryllium	7440-41-7	0.792		0.0172	0.107	2
06128	Cadmium	7440-43-9	0.273		0.0438	0.109	2
06131	Chromium	7440-47-3	21.5		0.129	0.429	2
06132	Cobalt	7440-48-4	5.88		0.0215	0.107	2
06133	Copper	7440-50-8	8.70		0.0708	0.429	2
06135	Lead	7439-92-1	5.63		0.0112	0.215	2
06138	Molybdenum	7439-98-7	0.485		0.0537	0.107	2
06139	Nickel	7440-02-0	13.1		0.107	0.429	2
06141	Selenium	7782-49-2	0.147	J	0.0429	0.429	2
06142	Silver	7440-22-4	0.0332	J	0.0129	0.107	2
06145	Thallium	7440-28-0	0.302		0.0322	0.107	2
06148	Vanadium	7440-62-2	39.0		0.0236	0.107	2
06149	Zinc	7440-66-6	59.8		0.601	3.22	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SS-0.0-0.5

LLI Sample # SW 6216199
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 08:45

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE091-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	282	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.54	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 06:48	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 20:24	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/11/2011 21:27	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 04:21	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 07:08	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110600019A	03/01/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 11:09	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 14:50	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 11:09	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 11:09	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 11:09	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 11:09	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 11:09	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SS-0.0-0.5

LLI Sample # SW 6216199
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 08:45

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE091-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 11:09	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 11:09	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 11:09	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 11:09	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/04/2011 11:09	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 11:09	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 11:09	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 02:32	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 02:32	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 02:32	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 14:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 10:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 02:32	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 02:32	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 21:49	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 02:32	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 02:32	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 02:32	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 14:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 02:32	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 02:32	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 02:32	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 02:32	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202A	03/09/2011 20:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201A	03/09/2011 17:14	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11061243201A	03/03/2011 16:38	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202A	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201A	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101A	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401A	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5A-SS-0.0-0.5

LLI Sample # SW 6216200
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE091-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5A-SS-0.0-0.5

LLI Sample # SW 6216200
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE091-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.91	J	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	1.1	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	1.3	J	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	1.1	J	0.74	1.8	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9	1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	84	U	84	280	1
10401	MCPP (Mecoprop)	93-65-2	160	J	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5A-SS-0.0-0.5

LLI Sample # SW 6216200
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE091-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	0.88	U	0.88	3.8	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38	1
01363	p,p-DDE	72-55-9	0.29	J	0.073	0.38	1
01363	p,p-DDT	50-29-3	0.78		0.073	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.10	J	0.073	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.10	J	0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, BKG/MS/MSD, and sample is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5A-SS-0.0-0.5

LLI Sample # SW 6216200
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE091-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	on the data. The results are reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.50	21.9	1
07914	Boron	7440-42-8	5.42	J	0.974	5.47	1
01650	Calcium	7440-70-2	2,940		6.71	21.9	1
01654	Iron	7439-89-6	18,700		5.15	21.9	1
01656	Lithium	7439-93-2	25.0		0.24	2.2	1
01657	Magnesium	7439-95-4	4,520		2.78	10.9	1
06958	Manganese	7439-96-5	320		0.0853	0.547	1
10145	Phosphorus	7723-14-0	437		0.613	10.9	1
01662	Potassium	7440-09-7	3,680		19.7	54.7	1
01667	Sodium	7440-23-5	54.3	J	40.8	109	1
07968	Strontium	7440-24-6	17.0		0.0678	0.547	1
06969	Tin	7440-31-5	2.67	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,310		0.416	1.09	1
10146	Zirconium	7440-67-7	1.70	J	0.919	5.47	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.190	J	0.0656	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.33		0.0875	0.438	2
06126	Barium	7440-39-3	103		0.118	0.438	2
06127	Beryllium	7440-41-7	0.863		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.175		0.0438	0.109	2
06131	Chromium	7440-47-3	19.1		0.131	0.438	2
06132	Cobalt	7440-48-4	6.80		0.0219	0.109	2
06133	Copper	7440-50-8	8.52		0.0722	0.438	2
06135	Lead	7439-92-1	5.98		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.523		0.0547	0.109	2
06139	Nickel	7440-02-0	12.3		0.109	0.438	2
06141	Selenium	7782-49-2	0.149	J	0.0438	0.438	2
06142	Silver	7440-22-4	0.0438	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.294		0.0328	0.109	2
06148	Vanadium	7440-62-2	38.2		0.0241	0.109	2
06149	Zinc	7440-66-6	62.1		0.613	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0355	J	0.0030	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5A-SS-0.0-0.5

LLI Sample # SW 6216200
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE091-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	313	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.53	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 08:03	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 20:56	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/11/2011 22:50	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110600022A	03/02/2011 20:33	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 05:04	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 08:04	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600019A	03/01/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110600022A	03/02/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 11:33	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 15:11	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 11:33	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5A-SS-0.0-0.5

LLI Sample # SW 6216200
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE091-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 11:33	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 11:33	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 11:33	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 11:33	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 11:33	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 11:33	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 11:33	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 11:33	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/04/2011 11:33	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 11:33	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 11:33	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 02:42	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 02:42	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 02:42	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 14:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 13:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 02:42	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 02:42	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:00	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 02:42	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 02:42	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 02:42	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 14:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 02:42	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 02:42	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 02:42	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 02:42	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202A	03/09/2011 21:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201A	03/09/2011 18:26	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11061243201A	03/03/2011 16:44	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202A	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201A	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101A	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401A	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-008-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5A-SS-0.0-0.5

LLI Sample # SW 6216200
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE091-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-110-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5A-SS-0.0-0.5

LLI Sample # SW 6216201
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:08

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE091-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzo(g,h,i)perylene	191-24-2	26	J	19	190	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	78	U	78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Chrysene	218-01-9	49	J	19	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	91	J	19	390	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	78	U	78	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-110-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5A-SS-0.0-0.5

LLI Sample # SW 6216201
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:08

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE091-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	190	J	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.2	J	0.79	2.0	1
10138	Acenaphthylene	208-96-8	1.1	J	0.39	2.0	1
10138	Anthracene	120-12-7	4.8		0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	27		0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	35		0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	77		0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	24		0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	11	J	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21	1
10138	Dibenz(a,h)anthracene	53-70-3	4.5		0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Fluoranthene	206-44-0	74		0.79	2.0	1
10138	Fluorene	86-73-7	1.1	J	0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	14		0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0	1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0	1
10138	Phenanthrene	85-01-8	27		0.79	2.0	1
10138	Pyrene	129-00-0	56		0.79	2.0	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(b)fluoranthene						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	0.73	U	0.73	2.0	1
10401	Dicamba	1918-00-9	0.55	J	0.47	1.4	1
10401	Dinoseb	88-85-7	0.95	U	0.95	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.1	J	0.95	2.0	1
10401	MCPA	94-74-6	970		90	300	1
10401	MCPP (Mecoprop)	93-65-2	260	U	260	300	1
10401	2,4,5-T	93-76-5	0.17	U	0.17	0.20	1
10401	2,4,5-TP	93-72-1	0.089	U	0.089	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-110-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5A-SS-0.0-0.5

LLI Sample # SW 6216201
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:08

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE091-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and 2,4,5-T.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20	1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20	1
01363	Chlordane	57-74-9	6.5	U	6.5	6.5	1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40	1
01363	p,p-DDE	72-55-9	0.61		0.078	0.40	1
01363	p,p-DDT	50-29-3	3.7		0.39	2.0	5
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20	1
01363	Dieldrin	60-57-1	0.56		0.078	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.18	J	0.078	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40	1
01363	Endrin	72-20-8	0.078	U	0.078	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.18	J	0.078	0.40	1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40	1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.048	J	0.040	0.20	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0	1
01363	Mirex	2385-85-5	0.39	U	0.39	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: mirex. Due to interfering peaks on the chromatogram, the values reported for technical chlordane represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	40		1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	6.7		0.39	2.0	1
10225	PCB-1260	11096-82-5	6.4		0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-110-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5A-SS-0.0-0.5

LLI Sample # SW 6216201
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:08

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE091-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
	The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, BKG/MS/MSD, and sample is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	7,720		5.84	23.2	1
07914	Boron	7440-42-8	2.69	J	1.03	5.81	1
01650	Calcium	7440-70-2	1,760		7.12	23.2	1
01654	Iron	7439-89-6	10,900		5.47	23.2	1
01656	Lithium	7439-93-2	11.1		0.26	2.3	1
01657	Magnesium	7439-95-4	2,140		2.95	11.6	1
06958	Manganese	7439-96-5	197		0.0906	0.581	1
10145	Phosphorus	7723-14-0	349		0.650	11.6	1
01662	Potassium	7440-09-7	1,870		20.9	58.1	1
01667	Sodium	7440-23-5	43.3	U	43.3	116	1
07968	Strontium	7440-24-6	11.8		0.0720	0.581	1
06969	Tin	7440-31-5	2.38	J	1.16	11.6	1
06970	Titanium	7440-32-6	712		0.441	1.16	1
10146	Zirconium	7440-67-7	0.976	U	0.976	5.81	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.288		0.0704	0.235	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.46		0.0938	0.469	2
06126	Barium	7440-39-3	83.9		0.127	0.469	2
06127	Beryllium	7440-41-7	0.534		0.0188	0.117	2
06128	Cadmium	7440-43-9	0.567		0.0460	0.115	2
06131	Chromium	7440-47-3	18.4		0.141	0.469	2
06132	Cobalt	7440-48-4	4.95		0.0235	0.117	2
06133	Copper	7440-50-8	10.9		0.0774	0.469	2
06135	Lead	7439-92-1	44.0		0.0122	0.235	2
06138	Molybdenum	7439-98-7	0.549		0.0587	0.117	2
06139	Nickel	7440-02-0	10.7		0.117	0.469	2
06141	Selenium	7782-49-2	0.130	J	0.0469	0.469	2
06142	Silver	7440-22-4	0.232		0.0141	0.117	2
06145	Thallium	7440-28-0	0.209		0.0352	0.117	2
06148	Vanadium	7440-62-2	35.0		0.0258	0.117	2
06149	Zinc	7440-66-6	176		0.657	3.52	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0620	J	0.0032	0.111	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-110-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5A-SS-0.0-0.5

LLI Sample # SW 6216201
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:08

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE091-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	375		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.47		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.6		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 08:28	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 21:27	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/11/2011 23:18	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 05:18	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/13/2011 20:26	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 08:23	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600019A	03/01/2011 18:00	Sally L Appleyard	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-110-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5A-SS-0.0-0.5

LLI Sample # SW 6216201
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:08

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE091-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 11:45	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 15:15	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 11:45	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 11:45	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 11:45	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 11:45	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 11:45	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 11:45	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 11:45	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 11:45	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 11:45	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/04/2011 11:45	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 11:45	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 11:45	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 02:44	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 02:44	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 02:44	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 14:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 10:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 02:44	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 02:44	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:06	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 02:44	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 02:44	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 02:44	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 14:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 02:44	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 02:44	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 02:44	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 02:44	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202A	03/09/2011 21:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201A	03/09/2011 18:50	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11061243201A	03/03/2011 17:02	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202A	03/07/2011 13:20	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-110-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5A-SS-0.0-0.5

LLI Sample # SW 6216201
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:08

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE091-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201A	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101A	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401A	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-119-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5A-SS-0.0-0.5

LLI Sample # SW 6216202
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:35

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE091-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610	1
04688	Anthracene	120-12-7	39	J	20	200	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100	1
04688	Benzo(a)anthracene	56-55-3	81	J	20	200	1
04688	Benzo(a)pyrene	50-32-8	100	J	20	200	1
04688	Benzo(b)fluoranthene	205-99-2	200	J	20	200	1
04688	Benzo(g,h,i)perylene	191-24-2	130	J	20	200	1
04688	Benzo(k)fluoranthene	207-08-9	77	J	20	200	1
04688	Benzoic acid	65-85-0	240	J	200	610	1
04688	Benzyl alcohol	100-51-6	200	U	200	610	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	400		20	200	1
04688	Carbazole	86-74-8	41	J	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200	1
04688	4-Chloroaniline	106-47-8	82	U	82	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200	1
04688	Chrysene	218-01-9	230		20	200	1
04688	Dibenz(a,h)anthracene	53-70-3	35	J	20	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200	1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610	1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	470		20	410	1
04688	Fluoranthene	206-44-0	490		20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	82	U	82	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	95	J	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	41	U	41	200	1
04688	4-Methylphenol	106-44-5	41	U	41	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5A-SS-0.0-0.5

LLI Sample # SW 6216202
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:35

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE091-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	41	U	41	200	1
04688	4-Nitroaniline	100-01-6	82	U	82	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	610	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	610	1
04688	Phenanthrene	85-01-8	190	J	20	200	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	Pyrene	129-00-0	350		20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200	1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.1	U	4.1	10	5
10138	Acenaphthylene	208-96-8	2.1	U	2.1	10	5
10138	Di-n-butylphthalate	84-74-2	130		37	110	5
10138	Fluorene	86-73-7	4.1	U	4.1	10	5
10138	1-Methylnaphthalene	90-12-0	4.1	U	4.1	10	5
10138	2-Methylnaphthalene	91-57-6	4.1	U	4.1	10	5
10138	Naphthalene	91-20-3	4.1	U	4.1	10	5
10138	N-Nitrosodimethylamine	62-75-9	4.1	U	4.1	10	5
10138	Di-n-octylphthalate	117-84-0	38	J	37	110	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.4	1
10401	Dalapon	75-99-0	5.4	U	5.4	11	1
10401	2,4-DB	94-82-6	9.9	U	9.9	9.9	1
10401	Dicamba	1918-00-9	0.49	U	0.49	1.5	1
10401	Dinoseb	88-85-7	0.99	U	0.99	3.0	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.99	U	0.99	2.1	1
10401	MCPA	94-74-6	410		94	310	1
10401	MCPP (Mecoprop)	93-65-2	620		93	310	1
10401	2,4,5-T	93-76-5	0.18	J	0.10	0.21	1
10401	2,4,5-TP	93-72-1	0.093	U	0.093	0.21	1
	Due to interfering peaks on the chromatogram, the values reported 2,4-DB represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5A-SS-0.0-0.5

LLI Sample # SW 6216202
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:35

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE091-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.082	U	0.082	0.21	1
01363	Alpha BHC	319-84-6	0.042	U	0.042	0.21	1
01363	Beta BHC	319-85-7	0.074	U	0.074	0.21	1
01363	Gamma BHC - Lindane	58-89-9	0.042	U	0.042	0.21	1
01363	Chlordane	57-74-9	4.6	U	4.6	4.6	1
01363	p,p-DDD	72-54-8	2.8	U	2.8	2.8	1
01363	p,p-DDE	72-55-9	0.23	U	0.23	0.42	1
01363	p,p-DDT	50-29-3	4.9		0.41	2.1	5
01363	Delta BHC	319-86-8	0.055	J	0.044	0.21	1
01363	Dieldrin	60-57-1	1.2		0.082	0.42	1
01363	Endosulfan I	959-98-8	0.054	U	0.054	0.21	1
01363	Endosulfan II	33213-65-9	0.21	J	0.082	0.42	1
01363	Endosulfan Sulfate	1031-07-8	0.082	U	0.082	0.42	1
01363	Endrin	72-20-8	0.082	U	0.082	0.42	1
01363	Endrin Aldehyde	7421-93-4	0.71		0.21	0.42	1
01363	Endrin Ketone	53494-70-5	0.60		0.082	0.42	1
01363	Heptachlor	76-44-8	0.074	U	0.074	0.21	1
01363	Heptachlor Epoxide	1024-57-3	0.14	U	0.14	0.21	1
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.1	1
01363	Mirex	2385-85-5	1.2		0.082	0.42	1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.2	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.
Due to interfering peaks on the chromatogram, the values reported p,p-DDD and technical chlordane represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.2	U	6.2	20	5
10225	Aroclor 5442	12642-23-8	6.2	U	6.2	20	5
10225	Aroclor 5460	11126-42-4	44		6.2	20	5
10225	PCB-1016	12674-11-2	2.0	U	2.0	11	5
10225	PCB-1221	11104-28-2	2.0	U	2.0	11	5
10225	PCB-1232	11141-16-5	2.0	U	2.0	11	5
10225	PCB-1242	53469-21-9	2.0	U	2.0	11	5
10225	PCB-1248	12672-29-6	15		2.0	11	5
10225	PCB-1254	11097-69-1	2.0	U	2.0	11	5
10225	PCB-1260	11096-82-5	26		2.4	11	5
10225	PCB-1262	37324-23-5	2.0	U	2.0	11	5
10225	PCB-1268	11100-14-4	2.0	U	2.0	11	5

The sample was injected numerous times. Each time the responses for

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5A-SS-0.0-0.5

LLI Sample # SW 6216202
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:35

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE091-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
	The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, and BKG/MS/MSD is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,600		6.04	24.0	1
07914	Boron	7440-42-8	5.47	J	1.07	6.00	1
01650	Calcium	7440-70-2	3,260		7.36	24.0	1
01654	Iron	7439-89-6	21,800		5.65	24.0	1
01656	Lithium	7439-93-2	22.4		0.26	2.4	1
01657	Magnesium	7439-95-4	4,000		3.05	12.0	1
06958	Manganese	7439-96-5	219		0.0936	0.600	1
10145	Phosphorus	7723-14-0	374		0.672	12.0	1
01662	Potassium	7440-09-7	3,170		21.6	60.0	1
01667	Sodium	7440-23-5	81.7	J	44.8	120	1
07968	Strontium	7440-24-6	18.4		0.0744	0.600	1
06969	Tin	7440-31-5	5.14	J	1.20	12.0	1
06970	Titanium	7440-32-6	1,280		0.456	1.20	1
10146	Zirconium	7440-67-7	1.01	U	1.01	6.00	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.880		0.0727	0.242	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.90		0.0969	0.485	2
06126	Barium	7440-39-3	86.3		0.131	0.485	2
06127	Beryllium	7440-41-7	0.599		0.0194	0.121	2
06128	Cadmium	7440-43-9	3.12		0.0485	0.121	2
06131	Chromium	7440-47-3	77.5		0.145	0.485	2
06132	Cobalt	7440-48-4	7.83		0.0242	0.121	2
06133	Copper	7440-50-8	60.8		0.0800	0.485	2
06135	Lead	7439-92-1	60.6		0.0126	0.242	2
06138	Molybdenum	7439-98-7	3.94		0.0606	0.121	2
06139	Nickel	7440-02-0	71.2		0.121	0.485	2
06141	Selenium	7782-49-2	0.195	J	0.0485	0.485	2
06142	Silver	7440-22-4	1.79		0.0145	0.121	2
06145	Thallium	7440-28-0	0.206		0.0364	0.121	2
06148	Vanadium	7440-62-2	44.1		0.0267	0.121	2
06149	Zinc	7440-66-6	329		3.39	18.2	10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0946	J	0.0034	0.120	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	J	0.99	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5A-SS-0.0-0.5

LLI Sample # SW 6216202
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:35

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE091-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.1	U	11.1	37.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.1		0.25	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	294		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.34		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	19.1		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 08:53	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 06:58	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/11/2011 23:45	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 05:33	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/13/2011 20:40	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 08:41	Richard A Shober	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110600019A	03/01/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5A-SS-0.0-0.5

LLI Sample # SW 6216202
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:35

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE091-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 11:48	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 15:25	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 11:48	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 11:48	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 11:48	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 11:48	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 11:48	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 11:48	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 11:48	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 11:48	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 11:48	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/04/2011 11:48	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 11:48	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 11:48	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 02:50	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 02:50	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 02:50	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 14:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 10:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 02:50	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 02:50	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:07	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 02:50	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 02:50	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 02:50	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 14:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 02:50	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 02:50	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 02:50	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 03:19	David K Beck	10
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202A	03/09/2011 21:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201A	03/09/2011 19:38	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11061243201A	03/03/2011 17:09	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202A	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201A	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101A	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401A	03/01/2011 11:20	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-119-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5A-SS-0.0-0.5

LLI Sample # SW 6216202
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:35

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE091-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5A-SS-0.0-0.5

LLI Sample # SW 6216203
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE091-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzo(a)pyrene	50-32-8	29	J	18	180	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	47	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5A-SS-0.0-0.5

LLI Sample # SW 6216203
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE091-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2	5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2	5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.2	5
10138	Benzo(b)fluoranthene	205-99-2	23		3.7	9.2	5
10138	Benzo(g,h,i)perylene	191-24-2	12		3.7	9.2	5
10138	Benzo(k)fluoranthene	207-08-9	5.8	J	3.7	9.2	5
10138	Chrysene	218-01-9	10		1.8	9.2	5
10138	Dibenz(a,h)anthracene	53-70-3	4.8	J	3.7	9.2	5
10138	Fluoranthene	206-44-0	4.2	J	3.7	9.2	5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.9	J	3.7	9.2	5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2	5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2	5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2	5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2	5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.2	5
10138	Pyrene	129-00-0	5.6	J	3.7	9.2	5

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

Reporting limits were raised due to interference from the sample matrix.

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	4.3	U	4.3	4.3	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	1.2	U	1.2	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5A-SS-0.0-0.5

LLI Sample # SW 6216203
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE091-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPA	94-74-6	84	U	84	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1
	Due to interfering peaks on the chromatogram, the values reported for 2,4-DB and dinoseb represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.20	J	0.073	0.38	1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38	1
01363	p,p-DDT	50-29-3	0.48		0.073	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.21	J	0.073	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.085	J	0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.22	J	0.073	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	1.9	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5A-SS-0.0-0.5

LLI Sample # SW 6216203
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE091-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, and BKG/MS/MSD is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600		5.47	21.7	1
07914	Boron	7440-42-8	4.55	J	0.967	5.43	1
01650	Calcium	7440-70-2	3,340		6.66	21.7	1
01654	Iron	7439-89-6	18,500		5.12	21.7	1
01656	Lithium	7439-93-2	9.1		0.24	2.2	1
01657	Magnesium	7439-95-4	3,250		2.76	10.9	1
06958	Manganese	7439-96-5	297		0.0848	0.543	1
10145	Phosphorus	7723-14-0	644		0.609	10.9	1
01662	Potassium	7440-09-7	2,990		19.6	54.3	1
01667	Sodium	7440-23-5	230		40.5	109	1
07968	Strontium	7440-24-6	70.9		0.0674	0.543	1
06969	Tin	7440-31-5	2.32	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,020		0.413	1.09	1
10146	Zirconium	7440-67-7	16.1		0.913	5.43	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.273		0.0659	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.04		0.0878	0.439	2
06126	Barium	7440-39-3	141		0.119	0.439	2
06127	Beryllium	7440-41-7	0.386		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.456		0.0431	0.108	2
06131	Chromium	7440-47-3	24.9		0.132	0.439	2
06132	Cobalt	7440-48-4	5.64		0.0220	0.110	2
06133	Copper	7440-50-8	8.35		0.0724	0.439	2
06135	Lead	7439-92-1	4.25		0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.623		0.0549	0.110	2
06139	Nickel	7440-02-0	14.9		0.110	0.439	2
06141	Selenium	7782-49-2	0.0992	J	0.0439	0.439	2
06142	Silver	7440-22-4	0.148		0.0132	0.110	2
06145	Thallium	7440-28-0	0.137		0.0329	0.110	2
06148	Vanadium	7440-62-2	37.1		0.0241	0.110	2
06149	Zinc	7440-66-6	99.2		0.615	3.29	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0650	J	0.0031	0.107	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.89	U	0.89	1.1	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5A-SS-0.0-0.5

LLI Sample # SW 6216203
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE091-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	330		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.61		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.8		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 13:11	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 10:11	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/08/2011 08:13	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 05:47	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 09:00	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110600019A	03/01/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 11:52	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5A-SS-0.0-0.5

LLI Sample # SW 6216203
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE091-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 15:29	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 11:52	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 11:52	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 11:52	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 11:52	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 11:52	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 11:52	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 11:52	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 11:52	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 11:52	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/04/2011 11:52	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 11:52	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 11:52	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 02:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 02:51	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 02:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 14:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 10:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 02:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 02:51	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:09	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 02:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 02:51	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 02:51	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 14:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 02:51	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 02:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 02:51	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 02:51	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202A	03/09/2011 22:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201A	03/09/2011 20:02	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11061243201A	03/03/2011 17:21	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202A	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201A	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101A	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401A	03/01/2011 11:20	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-120-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5A-SS-0.0-0.5

LLI Sample # SW 6216203
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE091-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-121-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SS-0.0-0.5

LLI Sample # SW 6216204
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE091-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	Dimethylphthalate	131-11-3	180	J	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SS-0.0-0.5

LLI Sample # SW 6216204
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE091-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.52	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	6.9		0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	11		0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	19		0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	5.2		0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	7.9		0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	140		6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	8.1		0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.9		0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	8.8		0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.3		0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	1.9		0.74	1.8	1
10138	Pyrene	129-00-0	12		0.74	1.8	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	84	U	84	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SS-0.0-0.5

LLI Sample # SW 6216204
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE091-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.21		0.083	0.19	1

Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.19	U	0.19	0.38	1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38	1
01363	p,p-DDT	50-29-3	2.5		0.073	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.70		0.073	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.29	U	0.29	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.40		0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.25		0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.30	J	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported for p,p-DDD and endosulfan II represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.3	2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.3	2
10225	Aroclor 5460	11126-42-4	5.3	J	2.2	7.3	2
10225	PCB-1016	12674-11-2	0.73	U	0.73	3.8	2
10225	PCB-1221	11104-28-2	0.73	U	0.73	3.8	2
10225	PCB-1232	11141-16-5	0.73	U	0.73	3.8	2
10225	PCB-1242	53469-21-9	0.73	U	0.73	3.8	2
10225	PCB-1248	12672-29-6	0.73	U	0.73	3.8	2
10225	PCB-1254	11097-69-1	13		0.73	3.8	2
10225	PCB-1260	11096-82-5	14		0.86	3.8	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SS-0.0-0.5

LLI Sample # SW 6216204
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE091-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.73	U	0.73	3.8	2
10225	PCB-1268	11100-14-4	0.73	U	0.73	3.8	2

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, and BKG/MS/MSD is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		5.46	21.7	1
07914	Boron	7440-42-8	5.21	J	0.966	5.43	1
01650	Calcium	7440-70-2	9,570		6.66	21.7	1
01654	Iron	7439-89-6	17,900		5.11	21.7	1
01656	Lithium	7439-93-2	25.8		0.24	2.2	1
01657	Magnesium	7439-95-4	4,340		2.76	10.9	1
06958	Manganese	7439-96-5	279		0.0847	0.543	1
10145	Phosphorus	7723-14-0	360		0.608	10.9	1
01662	Potassium	7440-09-7	3,110		19.5	54.3	1
01667	Sodium	7440-23-5	85.2	J	40.5	109	1
07968	Strontium	7440-24-6	23.0		0.0673	0.543	1
06969	Tin	7440-31-5	2.99	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,250		0.413	1.09	1
10146	Zirconium	7440-67-7	1.73	J	0.912	5.43	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.131	J	0.0645	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.90		0.0860	0.430	2
06126	Barium	7440-39-3	79.2		0.116	0.430	2
06127	Beryllium	7440-41-7	0.593		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.244		0.0430	0.108	2
06131	Chromium	7440-47-3	15.9		0.129	0.430	2
06132	Cobalt	7440-48-4	4.46		0.0215	0.108	2
06133	Copper	7440-50-8	7.71		0.0710	0.430	2
06135	Lead	7439-92-1	7.35		0.0112	0.215	2
06138	Molybdenum	7439-98-7	0.317		0.0538	0.108	2
06139	Nickel	7440-02-0	8.53		0.108	0.430	2
06141	Selenium	7782-49-2	0.0858	J	0.0430	0.430	2
06142	Silver	7440-22-4	0.0237	J	0.0129	0.108	2
06145	Thallium	7440-28-0	0.240		0.0323	0.108	2
06148	Vanadium	7440-62-2	32.7		0.0237	0.108	2
06149	Zinc	7440-66-6	75.5		0.602	3.23	2

Sample Description: **SL-121-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SS-0.0-0.5

LLI Sample # SW 6216204
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE091-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0042	J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	321		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.32		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.7		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 13:36	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 10:42	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/12/2011 00:13	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110600022A	03/02/2011 20:39	Jenifer E Hess	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SS-0.0-0.5

LLI Sample # SW 6216204
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE091-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 06:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 09:18	Richard A Shober	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110600019A	03/01/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110600022A	03/02/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 11:56	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 15:32	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 11:56	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 11:56	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 11:56	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 11:56	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 11:56	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 11:56	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 11:56	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 11:56	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 11:56	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/04/2011 11:56	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 11:56	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 11:56	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 02:53	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 02:53	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 02:53	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 14:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 10:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 02:53	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 02:53	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:11	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 02:53	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 02:53	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 02:53	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 14:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 02:53	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 02:53	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 02:53	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 02:53	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SS-0.0-0.5

LLI Sample # SW 6216204
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE091-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202A	03/09/2011 22:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201A	03/09/2011 20:27	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11061243201A	03/03/2011 17:40	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202A	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201A	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101A	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401A	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-136-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SS-0.0-0.5

LLI Sample # SW 6216205
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:25

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9107 SDG#: DE091-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-136-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SS-0.0-0.5

LLI Sample # SW 6216205
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:25

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9107 SDG#: DE091-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	4.2		0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	5.0		0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	8.9		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.8		0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	5.1		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	3.4		0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	1.0	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	6.3		0.73	1.8	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	0.80	U	0.80	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9	1
10401	MCPA	94-74-6	83	U	83	270	1
10401	MCPP (Mecoprop)	93-65-2	270	J	82	270	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-136-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SS-0.0-0.5

LLI Sample # SW 6216205
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:25

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9107 SDG#: DE091-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.13	J	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.45		0.072	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.12	J	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	2.5	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	4.5		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is

Sample Description: **SL-136-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SS-0.0-0.5

LLI Sample # SW 6216205
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:25

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9107 SDG#: DE091-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	attributed to the sample matrix and the data is reported.						
	The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, and BKG/MS/MSD is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		5.34	21.2	1
07914	Boron	7440-42-8	3.32	J	0.944	5.31	1
01650	Calcium	7440-70-2	2,040		6.50	21.2	1
01654	Iron	7439-89-6	16,000		5.00	21.2	1
01656	Lithium	7439-93-2	19.0		0.23	2.1	1
01657	Magnesium	7439-95-4	3,320		2.70	10.6	1
06958	Manganese	7439-96-5	285		0.0828	0.531	1
10145	Phosphorus	7723-14-0	275		0.594	10.6	1
01662	Potassium	7440-09-7	2,550		19.1	53.1	1
01667	Sodium	7440-23-5	43.3	J	39.6	106	1
07968	Strontium	7440-24-6	16.7		0.0658	0.531	1
06969	Tin	7440-31-5	2.44	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,090		0.403	1.06	1
10146	Zirconium	7440-67-7	1.71	J	0.891	5.31	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.112	J	0.0643	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.61		0.0857	0.429	2
06126	Barium	7440-39-3	93.6		0.116	0.429	2
06127	Beryllium	7440-41-7	0.687		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.159		0.0420	0.105	2
06131	Chromium	7440-47-3	15.8		0.129	0.429	2
06132	Cobalt	7440-48-4	4.84		0.0214	0.107	2
06133	Copper	7440-50-8	6.54		0.0707	0.429	2
06135	Lead	7439-92-1	5.57		0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.512		0.0536	0.107	2
06139	Nickel	7440-02-0	10.1		0.107	0.429	2
06141	Selenium	7782-49-2	0.123	J	0.0429	0.429	2
06142	Silver	7440-22-4	0.0341	J	0.0129	0.107	2
06145	Thallium	7440-28-0	0.234		0.0321	0.107	2
06148	Vanadium	7440-62-2	31.5		0.0236	0.107	2
06149	Zinc	7440-66-6	49.3		0.600	3.21	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	4.82		0.0299	1.04	10
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	J	0.87	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-136-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SS-0.0-0.5

LLI Sample # SW 6216205
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:25

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9107 SDG#: DE091-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	393		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.65		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 14:01	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 11:14	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/08/2011 09:08	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 06:16	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 09:37	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600019A	03/01/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 12:00	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-136-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SS-0.0-0.5

LLI Sample # SW 6216205
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:25

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9107 SDG#: DE091-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 15:36	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 12:00	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 12:00	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 12:00	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 12:00	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 12:00	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 12:00	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 12:00	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 12:00	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 12:00	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/04/2011 12:00	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 12:00	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 12:00	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 02:55	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 02:55	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 02:55	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 14:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 13:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 02:55	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 02:55	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:13	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 02:55	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 02:55	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 02:55	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 14:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 02:55	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 02:55	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 02:55	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 02:55	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:48	Damary Valentin	10
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202A	03/09/2011 22:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201A	03/09/2011 20:51	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11061243201A	03/03/2011 17:52	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202A	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201A	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101A	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401A	03/01/2011 11:20	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-136-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SS-0.0-0.5

LLI Sample # SW 6216205
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:25

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9107 SDG#: DE091-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SS-0.0-0.5

LLI Sample # SW 6216206
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:28

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9108 SDG#: DE091-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Chrysene	218-01-9	29	J	20	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	74	J	20	390	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-137-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SS-0.0-0.5

LLI Sample # SW 6216206
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:28

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9108 SDG#: DE091-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	20	U	20	200	1
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.0	U	4.0	9.9	5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	9.9	5
10138	Anthracene	120-12-7	4.4	J	2.0	9.9	5
10138	Benzo(a)anthracene	56-55-3	20		4.0	9.9	5
10138	Benzo(a)pyrene	50-32-8	19		4.0	9.9	5
10138	Benzo(b)fluoranthene	205-99-2	43		4.0	9.9	5
10138	Benzo(g,h,i)perylene	191-24-2	6.8	J	4.0	9.9	5
10138	Benzo(k)fluoranthene	207-08-9	14		4.0	9.9	5
10138	Di-n-butylphthalate	84-74-2	1,800		36	110	5
10138	Dibenz(a,h)anthracene	53-70-3	4.0	U	4.0	9.9	5
10138	Fluoranthene	206-44-0	33		4.0	9.9	5
10138	Fluorene	86-73-7	4.0	U	4.0	9.9	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.3	J	4.0	9.9	5
10138	1-Methylnaphthalene	90-12-0	4.1	J	4.0	9.9	5
10138	2-Methylnaphthalene	91-57-6	6.5	J	4.0	9.9	5
10138	Naphthalene	91-20-3	13		4.0	9.9	5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	9.9	5
10138	Phenanthrene	85-01-8	11		4.0	9.9	5
10138	Pyrene	129-00-0	44		4.0	9.9	5

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

Reporting limits were raised due to interference from the sample matrix.

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.3	U	5.3	11	1
10401	2,4-DB	94-82-6	27	U	27	27	1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4	1
10401	Dinoseb	88-85-7	0.95	U	0.95	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.95	U	0.95	2.0	1

Sample Description: SL-137-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SS-0.0-0.5

LLI Sample # SW 6216206
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:28

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9108 SDG#: DE091-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPA	94-74-6	660		91	300	1
10401	MCPP (Mecoprop)	93-65-2	250	U	250	300	1
10401	2,4,5-T	93-76-5	0.098	U	0.098	0.20	1
10401	2,4,5-TP	93-72-1	0.24	U	0.24	0.24	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and 2,4,5-TP.
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.079	U	0.079	0.20	1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20	1
01363	Beta BHC	319-85-7	0.072	U	0.072	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20	1
01363	Chlordane	57-74-9	4.1	U	4.1	4.1	1
01363	p,p-DDD	72-54-8	0.22	U	0.22	0.41	1
01363	p,p-DDE	72-55-9	1.6		0.079	0.41	1
01363	p,p-DDT	50-29-3	4.7		0.39	2.0	5
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20	1
01363	Dieldrin	60-57-1	1.2		0.079	0.41	1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20	1
01363	Endosulfan II	33213-65-9	0.11	U	0.11	0.41	1
01363	Endosulfan Sulfate	1031-07-8	0.079	U	0.079	0.41	1
01363	Endrin	72-20-8	0.079	U	0.079	0.41	1
01363	Endrin Aldehyde	7421-93-4	0.16	J	0.079	0.41	1
01363	Endrin Ketone	53494-70-5	0.079	U	0.079	0.41	1
01363	Heptachlor	76-44-8	0.072	U	0.072	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.067	J	0.041	0.20	1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0	1
01363	Mirex	2385-85-5	0.079	U	0.079	0.41	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: p,p-DDD and endosulfan II.
Due to interfering peaks on the chromatogram, the values reported for technical chlordane represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	19		1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-137-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SS-0.0-0.5

LLI Sample # SW 6216206
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:28

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9108 SDG#: DE091-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	5.0		0.47	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, and BKG/MS/MSD is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.94	23.6	1
07914	Boron	7440-42-8	4.23	J	1.05	5.91	1
01650	Calcium	7440-70-2	2,790		7.24	23.6	1
01654	Iron	7439-89-6	17,800		5.56	23.6	1
01656	Lithium	7439-93-2	21.3		0.26	2.4	1
01657	Magnesium	7439-95-4	3,620		3.00	11.8	1
06958	Manganese	7439-96-5	273		0.0922	0.591	1
10145	Phosphorus	7723-14-0	352		0.662	11.8	1
01662	Potassium	7440-09-7	3,380		21.3	59.1	1
01667	Sodium	7440-23-5	44.1	U	44.1	118	1
07968	Strontium	7440-24-6	18.5		0.0733	0.591	1
06969	Tin	7440-31-5	17.6		1.18	11.8	1
06970	Titanium	7440-32-6	1,140		0.449	1.18	1
10146	Zirconium	7440-67-7	1.37	J	0.992	5.91	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.830		0.0702	0.234	2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

06125	Arsenic	7440-38-2	4.24		0.0936	0.468	2
06126	Barium	7440-39-3	80.1		0.126	0.468	2
06127	Beryllium	7440-41-7	0.529		0.0187	0.117	2
06128	Cadmium	7440-43-9	2.20		0.0468	0.117	2
06131	Chromium	7440-47-3	16.5		0.140	0.468	2
06132	Cobalt	7440-48-4	4.69		0.0234	0.117	2
06133	Copper	7440-50-8	11.2		0.0772	0.468	2
06135	Lead	7439-92-1	99.5		0.0122	0.234	2
06138	Molybdenum	7439-98-7	0.486		0.0585	0.117	2
06139	Nickel	7440-02-0	10.2		0.117	0.468	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-137-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SS-0.0-0.5

LLI Sample # SW 6216206
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:28

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9108 SDG#: DE091-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06141	Selenium	7782-49-2	0.113	J	0.0468	0.468	2
06142	Silver	7440-22-4	0.133		0.0140	0.117	2
06145	Thallium	7440-28-0	0.248		0.0351	0.117	2
06148	Vanadium	7440-62-2	32.3		0.0257	0.117	2
06149	Zinc	7440-66-6	204		0.655	3.51	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.590		0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.95	U	0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	410		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.89		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	16.2		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result

Sample Description: **SL-137-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SS-0.0-0.5

LLI Sample # SW 6216206
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:28

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9108 SDG#: DE091-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 14:27	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 11:46	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/12/2011 00:41	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 06:30	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 06:44	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 09:55	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600019A	03/01/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 12:04	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 15:39	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 12:04	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 12:04	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 12:04	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 12:04	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 12:04	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 12:04	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 12:04	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 12:04	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 12:04	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/04/2011 12:04	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 12:04	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 12:04	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 02:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 02:57	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 02:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 14:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 10:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 02:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 02:57	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:15	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 02:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 02:57	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 02:57	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 14:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 02:57	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 02:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 02:57	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 02:57	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-137-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SS-0.0-0.5

LLI Sample # SW 6216206
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:28

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9108 SDG#: DE091-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202A	03/09/2011 22:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201A	03/09/2011 21:15	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11061243201A	03/03/2011 18:17	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202A	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201A	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101A	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401A	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SS-0.0-0.5

LLI Sample # SW 6216207
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9109 SDG#: DE091-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SS-0.0-0.5

LLI Sample # SW 6216207
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9109 SDG#: DE091-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.5	5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.5	5
10138	Anthracene	120-12-7	1.9	U	1.9	9.5	5
10138	Benzo(a)anthracene	56-55-3	6.5	J	3.8	9.5	5
10138	Benzo(a)pyrene	50-32-8	8.1	J	3.8	9.5	5
10138	Benzo(b)fluoranthene	205-99-2	17		3.8	9.5	5
10138	Benzo(g,h,i)perylene	191-24-2	4.1	J	3.8	9.5	5
10138	Benzo(k)fluoranthene	207-08-9	7.6	J	3.8	9.5	5
10138	Chrysene	218-01-9	10		1.9	9.5	5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.5	5
10138	Fluoranthene	206-44-0	6.9	J	3.8	9.5	5
10138	Fluorene	86-73-7	3.8	U	3.8	9.5	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.5	5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.5	5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.5	5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.5	5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.5	5
10138	Phenanthrene	85-01-8	3.8	U	3.8	9.5	5
10138	Pyrene	129-00-0	8.7	J	3.8	9.5	5

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

Reporting limits were raised due to interference from the sample matrix.

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	1.1	U	1.1	1.9	1
10401	Dicamba	1918-00-9	0.65	J	0.45	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9	1

Sample Description: SL-138-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SS-0.0-0.5

LLI Sample # SW 6216207
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9109 SDG#: DE091-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPA	94-74-6	270	U	270	280	1
10401	MCPP (Mecoprop)	93-65-2	99	U	99	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	2.3	U	2.3	3.9	1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39	1
01363	p,p-DDE	72-55-9	0.11	J	0.075	0.39	1
01363	p,p-DDT	50-29-3	1.1		0.075	0.39	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.32	U	0.32	0.39	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39	1
01363	Endrin	72-20-8	0.075	U	0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39	1
01363	Endrin Ketone	53494-70-5	0.10	U	0.10	0.39	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: endrin ketone.
Due to interfering peaks on the chromatogram, the values reported for dieldrin and technical chlordane represent the lowest reporting limits attainable.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	6.1		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SS-0.0-0.5

LLI Sample # SW 6216207
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9109 SDG#: DE091-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	1.9		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, BKG/MS/MSD, and sample is outside the limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.60	22.3	1
07914	Boron	7440-42-8	5.15	J	0.990	5.56	1
01650	Calcium	7440-70-2	2,440		6.82	22.3	1
01654	Iron	7439-89-6	16,900		5.24	22.3	1
01656	Lithium	7439-93-2	19.8		0.24	2.2	1
01657	Magnesium	7439-95-4	3,540		2.83	11.1	1
06958	Manganese	7439-96-5	256		0.0868	0.556	1
10145	Phosphorus	7723-14-0	319		0.623	11.1	1
01662	Potassium	7440-09-7	2,490		20.0	55.6	1
01667	Sodium	7440-23-5	41.5	U	41.5	111	1
07968	Strontium	7440-24-6	16.8		0.0690	0.556	1
06969	Tin	7440-31-5	2.75	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,120		0.423	1.11	1
10146	Zirconium	7440-67-7	1.65	J	0.935	5.56	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.208	J	0.0674	0.225	2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

06125	Arsenic	7440-38-2	4.72		0.0899	0.450	2
06126	Barium	7440-39-3	117		0.121	0.450	2
06127	Beryllium	7440-41-7	0.742		0.0180	0.112	2
06128	Cadmium	7440-43-9	0.452		0.0450	0.112	2
06131	Chromium	7440-47-3	29.6		0.135	0.450	2
06132	Cobalt	7440-48-4	6.48		0.0225	0.112	2
06133	Copper	7440-50-8	6.32		0.0742	0.450	2
06135	Lead	7439-92-1	18.0		0.0117	0.225	2
06138	Molybdenum	7439-98-7	0.504		0.0562	0.112	2
06139	Nickel	7440-02-0	15.7		0.112	0.450	2
06141	Selenium	7782-49-2	0.0939	J	0.0450	0.450	2
06142	Silver	7440-22-4	0.0344	J	0.0135	0.112	2
06145	Thallium	7440-28-0	0.303		0.0337	0.112	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SS-0.0-0.5

LLI Sample # SW 6216207
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9109 SDG#: DE091-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	46.6		0.0247	0.112	2
06149	Zinc	7440-66-6	89.1		0.629	3.37	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.460		0.0032	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.72	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	409		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.93		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 14:52	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 12:18	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SS-0.0-0.5

LLI Sample # SW 6216207
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9109 SDG#: DE091-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/12/2011 01:09	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 06:59	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 10:14	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600019A	03/01/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 12:08	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 15:43	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 12:08	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 12:08	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 12:08	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 12:08	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 12:08	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 12:08	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 12:08	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 12:08	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 12:08	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/04/2011 12:08	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 12:08	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 12:08	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 02:59	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 02:59	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 02:59	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 14:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 10:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 02:59	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 02:59	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:16	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 02:59	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 02:59	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 02:59	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 14:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 02:59	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 02:59	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 02:59	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 02:59	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-138-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SS-0.0-0.5

LLI Sample # SW 6216207
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9109 SDG#: DE091-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202A	03/09/2011 23:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201A	03/09/2011 21:39	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11061243201A	03/03/2011 18:30	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202A	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201A	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101A	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401A	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-143-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SS-0.0-0.5

LLI Sample # SW 6216208
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:38

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9110 SDG#: DE091-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	44	J	19	190	1
04688	Benzo(a)pyrene	50-32-8	34	J	19	190	1
04688	Benzo(b)fluoranthene	205-99-2	46	J	19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	27	J	19	190	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Chrysene	218-01-9	50	J	19	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	19	370	1
04688	Fluoranthene	206-44-0	77	J	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	22	J	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-143-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SS-0.0-0.5

LLI Sample # SW 6216208
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:38

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9110 SDG#: DE091-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenanthrene	85-01-8	78	J	19	190	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	Pyrene	129-00-0	120	J	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.86	J	0.38	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	4.4		0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.82	J	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	1.9	U	1.9	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	3.2	U	3.2	3.2	1
10401	MCPA	94-74-6	690		86	280	1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following						

Sample Description: SL-143-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SS-0.0-0.5

LLI Sample # SW 6216208
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:38

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9110 SDG#: DE091-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
compounds were affected: 2,4-DP and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.37	U	0.37	0.94	5
01363	Alpha BHC	319-84-6	0.19	U	0.19	0.94	5
01363	Beta BHC	319-85-7	0.34	U	0.34	0.94	5
01363	Gamma BHC - Lindane	58-89-9	0.19	U	0.19	0.94	5
01363	Chlordane	57-74-9	4.5	U	4.5	19	5
01363	p,p-DDD	72-54-8	1.1	U	1.1	1.9	5
01363	p,p-DDE	72-55-9	0.37	U	0.37	1.9	5
01363	p,p-DDT	50-29-3	3.3		0.37	1.9	5
01363	Delta BHC	319-86-8	0.20	U	0.20	0.94	5
01363	Dieldrin	60-57-1	0.66	J	0.37	1.9	5
01363	Endosulfan I	959-98-8	0.25	U	0.25	0.94	5
01363	Endosulfan II	33213-65-9	0.37	U	0.37	1.9	5
01363	Endosulfan Sulfate	1031-07-8	0.37	U	0.37	1.9	5
01363	Endrin	72-20-8	0.37	U	0.37	1.9	5
01363	Endrin Aldehyde	7421-93-4	1.4	J	0.37	1.9	5
01363	Endrin Ketone	53494-70-5	0.37	U	0.37	1.9	5
01363	Heptachlor	76-44-8	0.34	U	0.34	0.94	5
01363	Heptachlor Epoxide	1024-57-3	0.52	J	0.19	0.94	5
01363	Methoxychlor	72-43-5	1.9	U	1.9	9.4	5
01363	Mirex	2385-85-5	4.4	U	4.4	4.4	5
01363	Toxaphene	8001-35-2	12	U	12	37	5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: p,p-DDD and mirex.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.7	U	5.7	19	5
10225	Aroclor 5442	12642-23-8	5.7	U	5.7	19	5
10225	Aroclor 5460	11126-42-4	80		5.7	19	5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.6	5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.6	5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.6	5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.6	5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6	5
10225	PCB-1254	11097-69-1	1.9	U	1.9	9.6	5
10225	PCB-1260	11096-82-5	7.5	J	2.2	9.6	5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6	5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.6	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.58	22.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-143-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SS-0.0-0.5

LLI Sample # SW 6216208
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:38

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9110 SDG#: DE091-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	4.48	J	0.987	5.55	1
01650	Calcium	7440-70-2	2,710		6.80	22.2	1
01654	Iron	7439-89-6	18,000		5.22	22.2	1
01656	Lithium	7439-93-2	22.8		0.24	2.2	1
01657	Magnesium	7439-95-4	3,820		2.82	11.1	1
06958	Manganese	7439-96-5	331		0.0865	0.555	1
10145	Phosphorus	7723-14-0	342		0.621	11.1	1
01662	Potassium	7440-09-7	3,080		20.0	55.5	1
01667	Sodium	7440-23-5	41.4	U	41.4	111	1
07968	Strontium	7440-24-6	20.1		0.0688	0.555	1
06969	Tin	7440-31-5	2.73	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,200		0.421	1.11	1
10146	Zirconium	7440-67-7	1.33	J	0.932	5.55	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.248		0.0672	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.51		0.0896	0.448	2
06126	Barium	7440-39-3	85.9		0.121	0.448	2
06127	Beryllium	7440-41-7	0.712		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.174		0.0444	0.111	2
06131	Chromium	7440-47-3	17.6		0.134	0.448	2
06132	Cobalt	7440-48-4	4.88		0.0224	0.112	2
06133	Copper	7440-50-8	7.77		0.0739	0.448	2
06135	Lead	7439-92-1	11.2		0.0116	0.224	2
06138	Molybdenum	7439-98-7	0.508		0.0560	0.112	2
06139	Nickel	7440-02-0	11.2		0.112	0.448	2
06141	Selenium	7782-49-2	0.133	J	0.0448	0.448	2
06142	Silver	7440-22-4	0.0658	J	0.0134	0.112	2
06145	Thallium	7440-28-0	0.254		0.0336	0.112	2
06148	Vanadium	7440-62-2	33.7		0.0246	0.112	2
06149	Zinc	7440-66-6	61.1		0.627	3.36	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0197	J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-143-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SS-0.0-0.5

LLI Sample # SW 6216208
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:38

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9110 SDG#: DE091-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	289	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.05	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 15:17	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 12:49	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/12/2011 01:36	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/13/2011 20:54	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/23/2011 17:37	Richard A Shober	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110600019A	03/01/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 12:12	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 15:46	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 12:12	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 12:12	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 12:12	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 12:12	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 12:12	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 12:12	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-143-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SS-0.0-0.5

LLI Sample # SW 6216208
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:38

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9110 SDG#: DE091-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 12:12	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 12:12	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 12:12	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/04/2011 12:12	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 12:12	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 12:12	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 03:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 03:00	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 03:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 14:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	110701026001A	03/15/2011 13:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 03:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 03:00	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:18	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 03:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 03:00	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 03:00	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 14:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 03:00	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 03:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 03:00	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 03:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202A	03/09/2011 23:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201A	03/09/2011 22:03	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11061243201A	03/03/2011 18:36	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202A	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201A	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101B	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401B	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-233-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SS-0.0-0.5

LLI Sample # SW 6216209
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:22

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9111 SDG#: DE091-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-233-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SS-0.0-0.5

LLI Sample # SW 6216209
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:22

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9111 SDG#: DE091-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	3.2		0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	4.0		0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	7.9		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.6		0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	3.3		0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	3.1		0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.85	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	4.2		0.73	1.8	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9	1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	120	J	84	270	1
10401	MCPP (Mecoprop)	93-65-2	1,400	U	1,400	1,400	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-233-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SS-0.0-0.5

LLI Sample # SW 6216209
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:22

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9111 SDG#: DE091-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	1.8	U	1.8	1.8	1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.37	1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.37	1
01363	p,p-DDT	50-29-3	1.1		0.073	0.37	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.13	J	0.073	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.097	U	0.097	0.37	1
01363	Endrin	72-20-8	0.073	U	0.073	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.20	J	0.073	0.37	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37	1
01363	Heptachlor	76-44-8	0.13	U	0.13	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported heptachlor and technical chlordane represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: p,p-DDD and endosulfan sulfate.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	5.8		1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-233-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SS-0.0-0.5

LLI Sample # SW 6216209
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:22

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9111 SDG#: DE091-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	2.8		0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	17		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, and BKG/MS/MSD is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,200		5.47	21.8	1
07914	Boron	7440-42-8	4.22	J	0.968	5.44	1
01650	Calcium	7440-70-2	5,580		6.67	21.8	1
01654	Iron	7439-89-6	18,600		5.12	21.8	1
01656	Lithium	7439-93-2	21.3		0.24	2.2	1
01657	Magnesium	7439-95-4	4,530		2.76	10.9	1
06958	Manganese	7439-96-5	368		0.0849	0.544	1
10145	Phosphorus	7723-14-0	389		0.609	10.9	1
01662	Potassium	7440-09-7	2,860		19.6	54.4	1
01667	Sodium	7440-23-5	133		40.6	109	1
07968	Strontium	7440-24-6	34.4		0.0675	0.544	1
06969	Tin	7440-31-5	2.76	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,220		0.413	1.09	1
10146	Zirconium	7440-67-7	3.32	J	0.914	5.44	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0640	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.05		0.0854	0.427	2
06126	Barium	7440-39-3	99.4		0.115	0.427	2
06127	Beryllium	7440-41-7	0.666		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.258		0.0431	0.108	2
06131	Chromium	7440-47-3	17.5		0.128	0.427	2
06132	Cobalt	7440-48-4	5.03		0.0213	0.107	2
06133	Copper	7440-50-8	7.65		0.0704	0.427	2
06135	Lead	7439-92-1	5.91		0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.494		0.0533	0.107	2
06139	Nickel	7440-02-0	10.7		0.107	0.427	2
06141	Selenium	7782-49-2	0.0944	J	0.0427	0.427	2
06142	Silver	7440-22-4	0.0289	J	0.0128	0.107	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-233-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SS-0.0-0.5

LLI Sample # SW 6216209
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:22

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9111 SDG#: DE091-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.247	0.0320	0.107	2
06148	Vanadium	7440-62-2	35.4	0.0235	0.107	2
06149	Zinc	7440-66-6	75.1	0.597	3.20	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0284 J	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	300	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.22	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 15:42	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 13:20	Joseph M Gambler	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-233-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SS-0.0-0.5

LLI Sample # SW 6216209
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:22

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9111 SDG#: DE091-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/08/2011 11:52	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 07:42	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 10:51	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110600019A	03/01/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 12:16	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 15:50	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 12:16	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 12:16	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 12:16	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 12:16	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 12:16	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 12:16	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 12:16	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 12:16	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 12:16	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/04/2011 12:16	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 12:16	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 12:16	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 03:02	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 03:02	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 03:02	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 14:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 10:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 03:02	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 03:02	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:20	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 03:02	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 03:02	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 03:02	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 14:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 03:02	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 03:02	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 03:02	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 03:02	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-233-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SS-0.0-0.5

LLI Sample # SW 6216209
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:22

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9111 SDG#: DE091-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202B	03/10/2011 00:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201B	03/09/2011 22:27	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11061243201A	03/03/2011 18:54	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202B	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201B	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101B	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401B	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

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Analysis Report

Sample Description: SL-250-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-250-SA5A-SS-0.0-0.5

LLI Sample # SW 6216210
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:20

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9112 SDG#: DE091-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-250-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-250-SA5A-SS-0.0-0.5

LLI Sample # SW 6216210
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:20

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9112 SDG#: DE091-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.54	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	4.3		0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	7.6		0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	14		0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	5.4		0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	5.5		0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	5.7		0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.5	J	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	5.6		0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.0		0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	1.8	J	0.74	1.8	1
10138	Pyrene	129-00-0	9.0		0.74	1.8	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9	1
10401	2,4-DB	94-82-6	2.4	U	2.4	2.4	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-250-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-250-SA5A-SS-0.0-0.5

LLI Sample # SW 6216210
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:20

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9112 SDG#: DE091-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	240	U	240	280	1
10401	MCPP (Mecoprop)	93-65-2	670		83	280	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1
	Due to interfering peaks on the chromatogram, the values reported for MCPA and 2,4-DB represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37	1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.37	1
01363	p,p-DDT	50-29-3	2.4		0.073	0.37	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	1.4		0.073	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37	1
01363	Endrin	72-20-8	0.073	U	0.073	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.28	J	0.073	0.37	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.21	J	0.073	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.3	2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.3	2
10225	Aroclor 5460	11126-42-4	5.9	J	2.2	7.3	2
10225	PCB-1016	12674-11-2	0.73	U	0.73	3.7	2
10225	PCB-1221	11104-28-2	0.73	U	0.73	3.7	2
10225	PCB-1232	11141-16-5	0.73	U	0.73	3.7	2
10225	PCB-1242	53469-21-9	0.73	U	0.73	3.7	2
10225	PCB-1248	12672-29-6	0.73	U	0.73	3.7	2
10225	PCB-1254	11097-69-1	25		0.73	3.7	2
10225	PCB-1260	11096-82-5	16		0.86	3.7	2
10225	PCB-1262	37324-23-5	0.73	U	0.73	3.7	2
10225	PCB-1268	11100-14-4	0.73	U	0.73	3.7	2
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-250-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-250-SA5A-SS-0.0-0.5

LLI Sample # SW 6216210
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:20

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9112 SDG#: DE091-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	attributed to the sample matrix and the data is reported.						
	The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, and BKG/MS/MSD is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		5.33	21.2	1
07914	Boron	7440-42-8	5.96		0.944	5.30	1
01650	Calcium	7440-70-2	6,270		6.50	21.2	1
01654	Iron	7439-89-6	18,400		4.99	21.2	1
01656	Lithium	7439-93-2	23.5		0.23	2.1	1
01657	Magnesium	7439-95-4	4,260		2.69	10.6	1
06958	Manganese	7439-96-5	280		0.0827	0.530	1
10145	Phosphorus	7723-14-0	317		0.594	10.6	1
01662	Potassium	7440-09-7	2,800		19.1	53.0	1
01667	Sodium	7440-23-5	54.0	J	39.5	106	1
07968	Strontium	7440-24-6	18.6		0.0657	0.530	1
06969	Tin	7440-31-5	2.87	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,220		0.403	1.06	1
10146	Zirconium	7440-67-7	1.29	J	0.891	5.30	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.178	J	0.0649	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.32		0.0865	0.432	2
06126	Barium	7440-39-3	79.5		0.117	0.432	2
06127	Beryllium	7440-41-7	0.597		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.226		0.0437	0.109	2
06131	Chromium	7440-47-3	15.4		0.130	0.432	2
06132	Cobalt	7440-48-4	4.62		0.0216	0.108	2
06133	Copper	7440-50-8	5.86		0.0713	0.432	2
06135	Lead	7439-92-1	7.52		0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.345		0.0540	0.108	2
06139	Nickel	7440-02-0	9.17		0.108	0.432	2
06141	Selenium	7782-49-2	0.0844	J	0.0432	0.432	2
06142	Silver	7440-22-4	0.0306	J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.246		0.0324	0.108	2
06148	Vanadium	7440-62-2	35.2		0.0238	0.108	2
06149	Zinc	7440-66-6	75.1		0.605	3.24	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	U	0.88	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-250-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-250-SA5A-SS-0.0-0.5

LLI Sample # SW 6216210
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:20

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9112 SDG#: DE091-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	302		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.41		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.3		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 16:08	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 13:52	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/08/2011 12:20	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 07:56	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 11:10	Richard A Shober	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110600019A	03/01/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 12:20	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-250-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-250-SA5A-SS-0.0-0.5

LLI Sample # SW 6216210
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:20

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9112 SDG#: DE091-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 15:53	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 12:20	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 12:20	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 12:20	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 12:20	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 12:20	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 12:20	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 12:20	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 12:20	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 12:20	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/04/2011 12:20	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 12:20	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 12:20	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 03:04	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 03:04	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 03:04	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 15:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 10:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 03:04	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 03:04	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:22	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 03:04	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 03:04	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 03:04	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 15:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 03:04	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 03:04	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 03:04	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 03:04	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202B	03/10/2011 00:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201B	03/10/2011 00:03	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11061243201A	03/03/2011 19:01	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202B	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201B	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101B	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401B	03/01/2011 11:20	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-250-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-250-SA5A-SS-0.0-0.5

LLI Sample # SW 6216210
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:20

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9112 SDG#: DE091-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-251-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-251-SA5A-SS-0.0-0.5

LLI Sample # SW 6216211
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9113 SDG#: DE091-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	45	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-251-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-251-SA5A-SS-0.0-0.5

LLI Sample # SW 6216211
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9113 SDG#: DE091-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.90	J	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	7.7	U	7.7	7.7	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	230	J	85	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.13	J	0.084	0.19	1

Due to interfering peaks on the chromatogram, the values reported for 2,4-DB

Sample Description: SL-251-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-251-SA5A-SS-0.0-0.5

LLI Sample # SW 6216211
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9113 SDG#: DE091-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.20	J	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.46		0.074	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, and BKG/MS/MSD is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-251-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-251-SA5A-SS-0.0-0.5

LLI Sample # SW 6216211
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9113 SDG#: DE091-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,800		5.40	21.5	1
07914	Boron	7440-42-8	6.66		0.955	5.37	1
01650	Calcium	7440-70-2	1,900		6.58	21.5	1
01654	Iron	7439-89-6	15,900		5.05	21.5	1
01656	Lithium	7439-93-2	18.8		0.24	2.1	1
01657	Magnesium	7439-95-4	3,190		2.73	10.7	1
06958	Manganese	7439-96-5	292		0.0837	0.537	1
10145	Phosphorus	7723-14-0	263		0.601	10.7	1
01662	Potassium	7440-09-7	2,860		19.3	53.7	1
01667	Sodium	7440-23-5	42.0	J	40.0	107	1
07968	Strontium	7440-24-6	17.4		0.0665	0.537	1
06969	Tin	7440-31-5	2.63	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,130		0.408	1.07	1
10146	Zirconium	7440-67-7	1.64	J	0.901	5.37	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0657	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.41		0.0875	0.438	2
06126	Barium	7440-39-3	93.9		0.118	0.438	2
06127	Beryllium	7440-41-7	0.626		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.241		0.0429	0.107	2
06131	Chromium	7440-47-3	15.3		0.131	0.438	2
06132	Cobalt	7440-48-4	4.63		0.0219	0.109	2
06133	Copper	7440-50-8	6.69		0.0722	0.438	2
06135	Lead	7439-92-1	6.46		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.476		0.0547	0.109	2
06139	Nickel	7440-02-0	9.80		0.109	0.438	2
06141	Selenium	7782-49-2	0.140	J	0.0438	0.438	2
06142	Silver	7440-22-4	0.0495	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.243		0.0328	0.109	2
06148	Vanadium	7440-62-2	29.9		0.0241	0.109	2
06149	Zinc	7440-66-6	48.9		0.613	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0179	J	0.0031	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-251-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-251-SA5A-SS-0.0-0.5

LLI Sample # SW 6216211
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9113 SDG#: DE091-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	339	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.73	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/12/2011 02:42	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 14:23	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/12/2011 02:59	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 08:25	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 11:28	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600019A	03/01/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 12:32	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 15:57	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 12:32	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 12:32	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 12:32	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 12:32	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 12:32	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 12:32	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-251-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-251-SA5A-SS-0.0-0.5

LLI Sample # SW 6216211
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:05

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9113 SDG#: DE091-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 12:32	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 12:32	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 12:32	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/08/2011 15:57	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 12:32	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 12:32	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 03:06	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 03:06	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 03:06	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 15:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 10:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 03:06	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 03:06	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:27	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 03:06	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 03:06	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 03:06	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 15:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 03:06	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 03:06	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 03:06	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 03:06	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202B	03/10/2011 01:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201B	03/10/2011 00:27	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11061243201A	03/03/2011 19:13	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202B	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201B	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101B	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401B	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SB-3.0-4.0

LLI Sample # SW 6216212
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:48

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9114 SDG#: DE091-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.1	0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.0	0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0	0.91
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0	0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0	0.91
06192	Bromoform	75-25-2	0.40	U	0.40	4.0	0.91
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0	0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1	0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0	0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0	0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0	0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0	0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0	0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0	0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0	0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.0	0.91
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0	0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0	0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0	0.91
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0	0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0	0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0	0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0	0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0	0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0	0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0	0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0	0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0	0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0	0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0	0.91
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0	0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0	0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0	0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0	0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0	0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0	0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0	0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0	0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0	0.91
06192	Ethylbenzene	100-41-4	0.07	J	0.06	4.0	0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.0	0.91
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0	0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0	0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1	0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0	0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0	0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0	0.91
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1	0.91
06192	Methylene Chloride	75-09-2	0.55	J	0.24	4.0	0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0	0.91

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SB-3.0-4.0

LLI Sample # SW 6216212
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:48

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9114 SDG#: DE091-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0	0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0	0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0	0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0	0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.0	0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0	0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0	0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0	0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0	0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0	0.91
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0	0.91
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0	0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0	0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0	0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0	0.91
06192	m+p-Xylene	179601-23-1	0.22	J	0.17	4.0	0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0	0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15	21.89
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SB-3.0-4.0

LLI Sample # SW 6216212
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:48

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9114 SDG#: DE091-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SB-3.0-4.0

LLI Sample # SW 6216212
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:48

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9114 SDG#: DE091-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
	The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, and BKG/MS/MSD is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,100		5.42	21.6	1
07914	Boron	7440-42-8	2.26	J	0.959	5.39	1
01650	Calcium	7440-70-2	2,440		6.61	21.6	1
01654	Iron	7439-89-6	20,200		5.08	21.6	1
01656	Lithium	7439-93-2	22.4		0.24	2.2	1
01657	Magnesium	7439-95-4	3,470		2.74	10.8	1
06958	Manganese	7439-96-5	151		0.0840	0.539	1
10145	Phosphorus	7723-14-0	135		0.603	10.8	1
01662	Potassium	7440-09-7	1,150		19.4	53.9	1
01667	Sodium	7440-23-5	63.5	J	40.2	108	1
07968	Strontium	7440-24-6	19.9		0.0668	0.539	1
06969	Tin	7440-31-5	2.90	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,280		0.409	1.08	1
10146	Zirconium	7440-67-7	1.94	J	0.905	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0666	0.222	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SB-3.0-4.0

LLI Sample # SW 6216212
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:48

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9114 SDG#: DE091-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.33	0.0888	0.444	2
06126	Barium	7440-39-3	76.0	0.120	0.444	2
06127	Beryllium	7440-41-7	1.16	0.0178	0.111	2
06128	Cadmium	7440-43-9	0.0804 J	0.0440	0.110	2
06131	Chromium	7440-47-3	20.1	0.133	0.444	2
06132	Cobalt	7440-48-4	5.90	0.0222	0.111	2
06133	Copper	7440-50-8	6.66	0.0733	0.444	2
06135	Lead	7439-92-1	7.58	0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.642	0.0555	0.111	2
06139	Nickel	7440-02-0	9.12	0.111	0.444	2
06141	Selenium	7782-49-2	0.256 J	0.0444	0.444	2
06142	Silver	7440-22-4	0.0277 J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.216	0.0333	0.111	2
06148	Vanadium	7440-62-2	45.3	0.0244	0.111	2
06149	Zinc	7440-66-6	34.9	0.622	3.33	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2	0.89	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.81 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	359	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.74	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SB-3.0-4.0

LLI Sample # SW 6216212
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:48

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9114 SDG#: DE091-14

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-021-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110592AA	03/01/2011 00:30	Stephanie A Selis	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110592AA	02/28/2011 13:05	Jason M Long	21.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105623761	02/25/2011 19:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105623761	02/25/2011 19:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105623761	02/25/2011 19:24	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105623761	02/25/2011 19:15	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 16:58	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 14:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 11:47	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 12:36	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/09/2011 16:44	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 12:36	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 12:36	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 12:36	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 12:36	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 12:36	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 12:36	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 12:36	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 12:36	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 12:36	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/08/2011 16:07	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 12:36	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 12:36	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 03:11	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 03:11	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 03:11	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 15:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 10:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 03:11	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 03:11	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:29	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SB-3.0-4.0

LLI Sample # SW 6216212
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:48

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9114 SDG#: DE091-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 03:11	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 03:11	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 03:11	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 15:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 03:11	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 03:11	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 03:11	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 03:11	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202B	03/10/2011 01:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201B	03/10/2011 00:51	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11061243201A	03/03/2011 19:32	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202B	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201B	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101B	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401B	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402B	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SB-4.0-5.0

LLI Sample # SW 6216213
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:23

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9115 SDG#: DE091-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.5	U	7.5	9.0	1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.5	1.02
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5	1.02
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5	1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5	1.02
06192	Bromoform	75-25-2	0.45	U	0.45	4.5	1.02
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5	1.02
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0	1.02
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5	1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5	1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5	1.02
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5	1.02
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5	1.02
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5	1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5	1.02
06192	Chloroform	67-66-3	0.13	U	0.13	4.5	1.02
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5	1.02
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5	1.02
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5	1.02
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6	1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5	1.02
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5	1.02
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5	1.02
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5	1.02
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5	1.02
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5	1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5	1.02
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5	1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5	1.02
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5	1.02
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5	1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5	1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5	1.02
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5	1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5	1.02
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5	1.02
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5	1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5	1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5	1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5	1.02
06192	Freon 113	76-13-1	0.12	U	0.12	4.5	1.02
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6	1.02
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5	1.02
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0	1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5	1.02
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5	1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5	1.02
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0	1.02
06192	Methylene Chloride	75-09-2	0.92	J	0.27	4.5	1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5	1.02

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SB-4.0-5.0

LLI Sample # SW 6216213
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:23

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9115 SDG#: DE091-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5	1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5	1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5	1.02
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5	1.02
06192	Toluene	108-88-3	0.11	J	0.09	4.5	1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5	1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5	1.02
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5	1.02
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5	1.02
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5	1.02
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5	1.02
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5	1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5	1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5	1.02
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5	1.02
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5	1.02
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5	1.02
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16	23.81
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SB-4.0-5.0

LLI Sample # SW 6216213
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:23

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9115 SDG#: DE091-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SB-4.0-5.0

LLI Sample # SW 6216213
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:23

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9115 SDG#: DE091-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
	The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, and BKG/MS/MSD is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		5.55	22.1	1
07914	Boron	7440-42-8	2.53	J	0.981	5.51	1
01650	Calcium	7440-70-2	1,740		6.76	22.1	1
01654	Iron	7439-89-6	18,900		5.19	22.1	1
01656	Lithium	7439-93-2	16.9		0.24	2.2	1
01657	Magnesium	7439-95-4	3,470		2.80	11.0	1
06958	Manganese	7439-96-5	189		0.0860	0.551	1
10145	Phosphorus	7723-14-0	158		0.617	11.0	1
01662	Potassium	7440-09-7	1,710		19.8	55.1	1
01667	Sodium	7440-23-5	67.8	J	41.1	110	1
07968	Strontium	7440-24-6	16.6		0.0684	0.551	1
06969	Tin	7440-31-5	3.17	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,190		0.419	1.10	1
10146	Zirconium	7440-67-7	1.23	J	0.926	5.51	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.132	J	0.0649	0.216	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SB-4.0-5.0

LLI Sample # SW 6216213
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:23

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9115 SDG#: DE091-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	5.17	0.0865	0.432	2
06126	Barium	7440-39-3	59.0	0.117	0.432	2
06127	Beryllium	7440-41-7	0.682	0.0173	0.108	2
06128	Cadmium	7440-43-9	0.0922 J	0.0437	0.109	2
06131	Chromium	7440-47-3	15.7	0.130	0.432	2
06132	Cobalt	7440-48-4	3.66	0.0216	0.108	2
06133	Copper	7440-50-8	5.22	0.0713	0.432	2
06135	Lead	7439-92-1	5.26	0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.419	0.0540	0.108	2
06139	Nickel	7440-02-0	6.74	0.108	0.432	2
06141	Selenium	7782-49-2	0.125 J	0.0432	0.432	2
06142	Silver	7440-22-4	0.0130 U	0.0130	0.108	2
06145	Thallium	7440-28-0	0.232	0.0324	0.108	2
06148	Vanadium	7440-62-2	30.4	0.0238	0.108	2
06149	Zinc	7440-66-6	39.1	0.605	3.24	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	418	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.01	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SB-4.0-5.0

LLI Sample # SW 6216213
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:23

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9115 SDG#: DE091-15

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-022-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110592AA	03/01/2011 00:53	Stephanie A Selis	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110592AA	02/28/2011 13:25	Jason M Long	23.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105623761	02/25/2011 19:19	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105623761	02/25/2011 19:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105623761	02/25/2011 19:24	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105623761	02/25/2011 19:19	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 17:23	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 15:27	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 13:20	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 12:40	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 16:11	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 12:40	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 12:40	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 12:40	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 12:40	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 12:40	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 12:40	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 12:40	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 12:40	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 12:40	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/08/2011 16:11	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 12:40	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 12:40	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 03:13	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 03:13	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 03:13	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 15:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	110701026001A	03/15/2011 10:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 03:13	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 03:13	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:31	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SB-4.0-5.0

LLI Sample # SW 6216213
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:23

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9115 SDG#: DE091-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 03:13	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 03:13	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 03:13	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 15:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 03:13	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 03:13	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 03:13	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 03:13	David K Beck	2
00159	Mercury	SW-846 7471A	1	110595711002	03/01/2011 10:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110595711002	02/28/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202B	03/10/2011 01:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201B	03/10/2011 01:15	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11061243201A	03/03/2011 19:38	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202B	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201B	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101B	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401B	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402B	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SB-4.0-5.0

LLI Sample # SW 6216214
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:30

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9116 SDG#: DE091-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.4	U	7.4	8.8	0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.4	0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4	0.96
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4	0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4	0.96
06192	Bromoform	75-25-2	0.44	U	0.44	4.4	0.96
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4	0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8	0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4	0.96
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4	0.96
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4	0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4	0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4	0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4	0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4	0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.4	0.96
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4	0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4	0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4	0.96
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5	0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4	0.96
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4	0.96
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4	0.96
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4	0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4	0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4	0.96
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4	0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4	0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4	0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4	0.96
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4	0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4	0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4	0.96
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4	0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4	0.96
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4	0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4	0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4	0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4	0.96
06192	Ethylbenzene	100-41-4	0.15	J	0.07	4.4	0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.4	0.96
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5	0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4	0.96
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8	0.96
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4	0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4	0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4	0.96
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8	0.96
06192	Methylene Chloride	75-09-2	0.52	J	0.26	4.4	0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4	0.96

*=This limit was used in the evaluation of the final result

Sample Description: SL-050-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SB-4.0-5.0

LLI Sample # SW 6216214
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:30

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9116 SDG#: DE091-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4	0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4	0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4	0.96
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4	0.96
06192	Toluene	108-88-3	0.12	J	0.09	4.4	0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4	0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4	0.96
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4	0.96
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4	0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4	0.96
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4	0.96
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4	0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4	0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4	0.96
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4	0.96
06192	m+p-Xylene	179601-23-1	0.54	J	0.19	4.4	0.96
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4	0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16	23.28
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SB-4.0-5.0

LLI Sample # SW 6216214
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:30

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9116 SDG#: DE091-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-050-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SB-4.0-5.0

LLI Sample # SW 6216214
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:30

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9116 SDG#: DE091-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, and BKG/MS/MSD is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,800		5.76	22.9	1
07914	Boron	7440-42-8	3.23	J	1.02	5.73	1
01650	Calcium	7440-70-2	2,410		7.02	22.9	1
01654	Iron	7439-89-6	26,800		5.40	22.9	1
01656	Lithium	7439-93-2	31.8		0.25	2.3	1
01657	Magnesium	7439-95-4	5,040		2.91	11.5	1
06958	Manganese	7439-96-5	231		0.0893	0.573	1
10145	Phosphorus	7723-14-0	312		0.641	11.5	1
01662	Potassium	7440-09-7	1,610		20.6	57.3	1
01667	Sodium	7440-23-5	87.5	J	42.7	115	1
07968	Strontium	7440-24-6	22.7		0.0710	0.573	1
06969	Tin	7440-31-5	3.19	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,400		0.435	1.15	1
10146	Zirconium	7440-67-7	2.70	J	0.962	5.73	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.160	J	0.0667	0.222	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SB-4.0-5.0

LLI Sample # SW 6216214
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:30

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9116 SDG#: DE091-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.42	0.0890	0.445	2
06126	Barium	7440-39-3	97.2	0.120	0.445	2
06127	Beryllium	7440-41-7	1.16	0.0178	0.111	2
06128	Cadmium	7440-43-9	0.0728 J	0.0441	0.110	2
06131	Chromium	7440-47-3	27.2	0.133	0.445	2
06132	Cobalt	7440-48-4	5.74	0.0222	0.111	2
06133	Copper	7440-50-8	8.34	0.0734	0.445	2
06135	Lead	7439-92-1	7.82	0.0116	0.222	2
06138	Molybdenum	7439-98-7	0.975	0.0556	0.111	2
06139	Nickel	7440-02-0	15.9	0.111	0.445	2
06141	Selenium	7782-49-2	0.129 J	0.0445	0.445	2
06142	Silver	7440-22-4	0.0777 J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.198	0.0334	0.111	2
06148	Vanadium	7440-62-2	51.4	0.0245	0.111	2
06149	Zinc	7440-66-6	47.7	0.623	3.34	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0095 J	0.0031	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3	0.92	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31 J	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	435	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.43	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SB-4.0-5.0

LLI Sample # SW 6216214
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:30

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9116 SDG#: DE091-16

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-050-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110592AA	03/01/2011 01:16	Stephanie A Selis	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110592AA	02/28/2011 13:46	Jason M Long	23.28
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105623761	02/25/2011 19:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105623761	02/25/2011 19:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105623761	02/25/2011 19:24	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105623761	02/25/2011 19:23	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 17:48	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 15:59	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 13:38	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 12:44	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 16:14	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 12:44	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 12:44	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 12:44	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 12:44	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 12:44	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 12:44	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 12:44	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 12:44	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 12:44	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/08/2011 16:14	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 12:44	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 12:44	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 03:15	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 03:15	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 03:15	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 15:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 10:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 03:15	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 03:15	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:33	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SB-4.0-5.0

LLI Sample # SW 6216214
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:30

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9116 SDG#: DE091-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 03:15	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 03:15	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 03:15	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 15:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 03:15	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 03:15	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 03:15	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 03:15	David K Beck	2
00159	Mercury	SW-846 7471A	1	110665711002	03/08/2011 10:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711002	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202B	03/10/2011 01:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201B	03/10/2011 01:39	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11061243201A	03/03/2011 19:57	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202B	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201B	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101B	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401B	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402B	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-022411 Water
SSFL Area IV Collocated Soil Sampling
TB-022411

LLI Sample # WW 6216215
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 16:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9117 SDG#: DE091-17TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **TB-022411 Water**
SSFL Area IV Collocated Soil Sampling
TB-022411

LLI Sample # WW 6216215
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 16:00

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9117 SDG#: DE091-17TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110591AA	02/28/2011 13:06	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110591AA	02/28/2011 09:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110591AA	02/28/2011 09:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110591AA	02/28/2011 13:06	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-122-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5A-SS-0.0-0.5

LLI Sample # SW 6216216
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:50

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9118 SDG#: DE091-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5A-SS-0.0-0.5

LLI Sample # SW 6216216
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:50

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9118 SDG#: DE091-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	3.4		0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	6.1		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.9		0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	10	J	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	2.7		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	J	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	12	J	6.5	20	1
10138	Fluoranthene	206-44-0	2.6		0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	0.99	J	0.73	1.8	1
10138	Pyrene	129-00-0	3.6		0.73	1.8	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	3.2	U	3.2	3.2	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8	1
10401	MCPA	94-74-6	83	U	83	270	1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5A-SS-0.0-0.5

LLI Sample # SW 6216216
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:50

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9118 SDG#: DE091-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.18	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	2.7	U	2.7	3.7	1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.086	J	0.072	0.37	1
01363	p,p-DDT	50-29-3	1.2		0.072	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.44		0.072	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.085	U	0.085	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.085	J	0.072	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.17	U	0.17	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: endosulfan II.
Due to interfering peaks on the chromatogram, the values reported for heptachlor and technical chlordane represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5A-SS-0.0-0.5

LLI Sample # SW 6216216
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:50

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9118 SDG#: DE091-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	7.9		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
	The DCB surrogate data for the extraction blank, LCS, LCSPCT, LCSDPCT, and BKG/MS/MSD is outside the project limits but within Lancaster Laboratory's limits. The TCX surrogate in within the limits. There is no impact on the data. The results are reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,900		5.37	21.3	1
07914	Boron	7440-42-8	5.09	J	0.949	5.33	1
01650	Calcium	7440-70-2	3,640		6.54	21.3	1
01654	Iron	7439-89-6	17,900		5.02	21.3	1
01656	Lithium	7439-93-2	26.1		0.23	2.1	1
01657	Magnesium	7439-95-4	4,580		2.71	10.7	1
06958	Manganese	7439-96-5	256		0.0832	0.533	1
10145	Phosphorus	7723-14-0	341		0.597	10.7	1
01662	Potassium	7440-09-7	2,990		19.2	53.3	1
01667	Sodium	7440-23-5	39.8	U	39.8	107	1
07968	Strontium	7440-24-6	12.3		0.0661	0.533	1
06969	Tin	7440-31-5	2.54	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,120		0.405	1.07	1
10146	Zirconium	7440-67-7	0.953	J	0.896	5.33	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0653	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.80		0.0871	0.435	2
06126	Barium	7440-39-3	78.1		0.118	0.435	2
06127	Beryllium	7440-41-7	0.513		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.136		0.0423	0.106	2
06131	Chromium	7440-47-3	14.0		0.131	0.435	2
06132	Cobalt	7440-48-4	4.20		0.0218	0.109	2
06133	Copper	7440-50-8	5.58		0.0718	0.435	2
06135	Lead	7439-92-1	4.92		0.0113	0.218	2
06138	Molybdenum	7439-98-7	0.219		0.0544	0.109	2
06139	Nickel	7440-02-0	7.93		0.109	0.435	2
06141	Selenium	7782-49-2	0.0876	J	0.0435	0.435	2
06142	Silver	7440-22-4	0.0274	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.215		0.0326	0.109	2
06148	Vanadium	7440-62-2	31.1		0.0239	0.109	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-122-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5A-SS-0.0-0.5

LLI Sample # SW 6216216
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:50

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9118 SDG#: DE091-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	65.8		0.609	3.26	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0094	J	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	429		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.16		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.1		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11059SLE026	03/11/2011 18:14	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11062SLC026	03/04/2011 16:30	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11062SLC026	03/03/2011 16:30	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11059SLE026	03/01/2011 04:30	Sherry L Morrow	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-122-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5A-SS-0.0-0.5

LLI Sample # SW 6216216
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:50

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9118 SDG#: DE091-18*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110610019A	03/08/2011 13:15	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600019A	03/11/2011 10:06	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110600028A	03/12/2011 13:57	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600019A	03/01/2011 18:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110600028A	03/02/2011 07:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110610019A	03/03/2011 03:05	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110615708001	03/04/2011 12:48	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110615708001	03/08/2011 16:18	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110615708001	03/04/2011 12:48	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110615708001	03/04/2011 12:48	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110615708001	03/04/2011 12:48	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110615708001	03/04/2011 12:48	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110615708001	03/04/2011 12:48	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110615708001	03/04/2011 12:48	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110615708001	03/04/2011 12:48	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110615708001	03/04/2011 12:48	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110615708001	03/04/2011 12:48	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110615708001	03/08/2011 16:18	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110615708001	03/04/2011 12:48	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110615708001	03/04/2011 12:48	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110611026001A	03/10/2011 03:17	David K Beck	2
06125	Arsenic	SW-846 6020	1	110611026001A	03/10/2011 03:17	David K Beck	2
06126	Barium	SW-846 6020	1	110611026001D	03/10/2011 03:17	David K Beck	2
06127	Beryllium	SW-846 6020	1	110611026001A	03/09/2011 15:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110701026001A	03/15/2011 13:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110611026001A	03/10/2011 03:17	David K Beck	2
06132	Cobalt	SW-846 6020	1	110611026001A	03/10/2011 03:17	David K Beck	2
06133	Copper	SW-846 6020	1	110611026001A	03/10/2011 22:34	David K Beck	2
06135	Lead	SW-846 6020	1	110611026001A	03/10/2011 03:17	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110611026001C	03/10/2011 03:17	David K Beck	2
06139	Nickel	SW-846 6020	1	110611026001A	03/10/2011 03:17	David K Beck	2
06141	Selenium	SW-846 6020	1	110611026001B	03/09/2011 15:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110611026001A	03/10/2011 03:17	David K Beck	2
06145	Thallium	SW-846 6020	1	110611026001A	03/10/2011 03:17	David K Beck	2
06148	Vanadium	SW-846 6020	1	110611026001A	03/10/2011 03:17	David K Beck	2
06149	Zinc	SW-846 6020	1	110611026001A	03/10/2011 03:17	David K Beck	2
00159	Mercury	SW-846 7471A	1	110665711002	03/08/2011 10:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110615708001	03/02/2011 20:26	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110611026001	03/02/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110701026001	03/13/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711002	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11066621202B	03/10/2011 02:29	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-122-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5A-SS-0.0-0.5

LLI Sample # SW 6216216
LLI Group # 1234760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:50

Submitted: 02/25/2011 11:40
Reported: 03/25/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9118 SDG#: DE091-18*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11065495201B	03/10/2011 02:03	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11061243201A	03/03/2011 20:09	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11066621202B	03/07/2011 13:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11065495201B	03/07/2011 01:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101B	03/01/2011 11:20	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11060039401B	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11061243201A	03/02/2011 09:15	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402B	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110592AA	Sample number(s): 6216212-6216214									
Acetone	6.7	U	6.7	8.0	ug/kg	118	121	32-209	2	30
Benzene	0.10	U	0.10	4.0	ug/kg	102	102	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	102	103	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	99	100	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	90	91	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	83	87	70-120	5	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	66	66	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	105	111	46-153	5	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	107	108	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	109	109	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	104	104	75-120	0	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	97	98	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97	99	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	68	66	37-154	4	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	86	88	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	100	102	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	75	75	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104	105	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	103	79-120	0	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	73	72	22-131	1	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	88	92	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	84	86	77-120	3	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96	99	80-120	3	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	98	99	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	101	102	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99	100	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	100	79-120	0	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	60	60	20-120	0	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	103	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	102	104	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113	114	73-123	1	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102	103	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103	105	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97	99	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	98	100	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97	98	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	103	105	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88	88	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	85	88	77-120	4	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101	102	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	121	119	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	103	102	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101	101	57-120	0	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	103	109	45-155	6	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101	103	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	107	107	75-120	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	99	102	74-121	2	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	105	111	61-134	6	30
Methylene Chloride	0.57	J	0.24	4.0	ug/kg	108	109	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	110	110	77-120	0	30
Styrene	0.10	U	0.10	4.0	ug/kg	94	95	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	92	94	80-120	3	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98	102	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100	102	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	100	102	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	100	101	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	99	100	68-120	1	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	104	105	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97	99	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99	100	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	97	96	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	102	106	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	106	106	79-120	0	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	106	106	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	82	81	53-120	0	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99	100	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	98	99	80-120	1	30
Batch number: E110591AA	Sample number(s): 6216215									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	115	116	80-123	1	30
Batch number: E110592AA	Sample number(s): 6216212-6216214									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	103	110	70-130	7	30
Batch number: Y110591AA	Sample number(s): 6216215									
Acetone	6	U	6.	20	ug/l	81	79	49-234	3	30
Benzene	0.5	U	0.5	5	ug/l	95	95	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	94	95	80-120	1	30
Bromoform	1	U	1.	5	ug/l	80	84	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	87	87	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	101	101	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	99	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	93	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	93	93	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	80	80	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	118	116	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	100	99	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	80	81	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	100	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	96	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	48	50	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	93	92	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	91	91	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	99	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	95	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	96	96	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	76	74	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	98	97	79-120	0	30

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	107	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	84	85	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	92	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	98	96	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	102	102	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	93	94	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	98	96	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	94	95	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	98	79-120	1	30
Freon 113	2	U	2.	10	ug/l	82	82	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	93	94	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	86	87	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	103	102	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	96	95	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	100	99	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	105	106	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	89	90	80-120	0	30
n-Propylbenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
Styrene	1	U	1.	5	ug/l	91	93	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	94	96	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	102	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	92	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	95	95	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	87	89	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	92	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	84	84	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	98	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	95	95	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	92	91	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	107	106	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	101	101	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	99	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	79	79	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	94	93	80-120	1	30
Batch number: 11059SLE026	Sample number(s): 6216199-6216214,6216216									
Aniline	170 U		170.	500	ug/kg	80		34-94		
Anthracene	17	U	17.	170	ug/kg	93		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	42		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	93		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	89		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	84		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	87		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	97		67-125		
Benzoic acid	170 U		170.	500	ug/kg	85		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	87		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	90		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	92		79-112		
Carbazole	17	U	17.	170	ug/kg	93		77-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	90		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	40		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	75		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	99		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	89		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Chrysene	17	U	17.	170	ug/kg	93		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	85		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	65		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	92		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	89		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	95		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	93		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	76		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	100		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	84		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	90		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	95		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	79		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	87		64-119		
Isophorone	17	U	17.	170	ug/kg	89		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	91		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	86		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	84		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	94		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	69		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	81		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	86		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	83		51-117		
Phenanthrene	17	U	17.	170	ug/kg	92		77-113		
Phenol	17	U	17.	170	ug/kg	86		58-112		
Pyrene	17	U	17.	170	ug/kg	94		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11062SLC026	Sample number(s): 6216199-6216214,6216216									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	90		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	85		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	97		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	119		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	146*		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	126		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	116		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	106		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	100		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	127		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	90		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	96		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	106		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	91		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	93		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	125		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	78		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	80		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	78		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	137		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	89		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	97		56-121		
Batch number: 110610019A	Sample number(s): 6216199-6216211,6216216									
2,4-D	1.2	U	1.2	3.6	ug/kg	84		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	40		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	82		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	81		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	25		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	101		62-170		
MCPA	76	U	76.	250	ug/kg	94		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	115		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	82		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	84		68-114		
Batch number: 110600022A	Sample number(s): 6216200,6216204									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	98		85-115		
Batch number: 110600019A	Sample number(s): 6216199-6216211,6216216									
Aldrin	0.066	U	0.066	0.17	ug/kg	109		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	79		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	85		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	99		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	96		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	109		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	89		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	64		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	94		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	117		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	95		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	67		55-132		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	108		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	94		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	118		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	106		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110600028A	Sample number(s): 6216199-6216214,6216216									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	101	99	36-106	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	113		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	135		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110595711002	Sample number(s): 6216199-6216213									
Mercury	0.0029	U	0.0029	0.0997	mg/kg	100		88-123		
Batch number: 110611026001A	Sample number(s): 6216199-6216214,6216216									
Antimony	0.147	J	0.0600	0.200	mg/kg	118		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		80-120		
Beryllium	0.0458	J	0.0160	0.100	mg/kg	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	109		80-120		
Cobalt	0.0428	J	0.0200	0.100	mg/kg	98		82-118		
Copper	0.0776	J	0.0660	0.400	mg/kg	102		80-120		
Lead	0.0378	J	0.0104	0.200	mg/kg	104		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	107		80-120		
Silver	0.0168	J	0.0120	0.100	mg/kg	104		66-134		
Thallium	0.0672	J	0.0300	0.100	mg/kg	110		81-119		
Vanadium	0.0528	J	0.0220	0.100	mg/kg	103		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	102		78-122		
Batch number: 110611026001B	Sample number(s): 6216199-6216214,6216216									
Selenium	0.0455	J	0.0400	0.400	mg/kg	112		79-122		
Batch number: 110611026001C	Sample number(s): 6216199-6216214,6216216									
Molybdenum	0.0581	J	0.0500	0.100	mg/kg	111		78-122		
Batch number: 110611026001D	Sample number(s): 6216199-6216214,6216216									
Barium	0.108	U	0.108	0.400	mg/kg	111		79-121		
Batch number: 110615708001	Sample number(s): 6216199-6216214,6216216									
Aluminum	5.03	U	5.03	20.0	mg/kg	107		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	99		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	100		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	98		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	101		81-119		
Phosphorus	1.19	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	102		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Strontium	0.0620	U	0.0620	0.500	mg/kg	110		79-121		
Tin	1.45	J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	116		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		
Batch number: 110665711002	Sample number(s): 6216214,6216216									
Mercury	0.0028	U	0.0028	0.0960	mg/kg	91		88-123		
Batch number: 110701026001A	Sample number(s): 6216199-6216214,6216216									
Cadmium	0.0400	U	0.0400	0.100	mg/kg	102		82-118		
Batch number: 11061243201A	Sample number(s): 6216199-6216214,6216216									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11065495201A	Sample number(s): 6216199-6216208									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	101		85-115		
Batch number: 11065495201B	Sample number(s): 6216209-6216214,6216216									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	101		85-115		
Batch number: 11066621202A	Sample number(s): 6216199-6216208									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
Batch number: 11066621202B	Sample number(s): 6216209-6216214,6216216									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
Batch number: 11060039401A	Sample number(s): 6216199-6216207									
22a pH by 9045C						99		95-105		
Batch number: 11060039401B	Sample number(s): 6216208-6216214,6216216									
22a pH by 9045C						99		95-105		
Batch number: 11060182101A	Sample number(s): 6216199-6216207									
32a OR Potential						99		98-102		
Batch number: 11060182101B	Sample number(s): 6216208-6216214,6216216									
32a OR Potential						99		98-102		
Batch number: 11063162402A	Sample number(s): 6216199-6216211									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11063162402B	Sample number(s): 6216212-6216214,6216216									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11059SLE026	Sample number(s): 6216199-6216214,6216216 UNSPK: 6216199								
Aniline	96*	93	35-95	2	30				
Anthracene	95	95	75-115	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzidine	27*	18*	35-141	40*	30				
Benzo(a)anthracene	96	95	65-122	1	30				
Benzo(a)pyrene	89	91	57-126	3	30				
Benzo(b)fluoranthene	89	85	59-125	3	30				
Benzo(g,h,i)perylene	92	93	59-127	1	30				
Benzo(k)fluoranthene	97	98	56-132	2	30				
Benzoic acid	60	59	10-173	2	30				
Benzyl alcohol	89	93	67-115	5	30				
4-Bromophenyl-phenylether	98	97	67-129	0	30				
Butylbenzylphthalate	93	94	73-134	2	30				
Di-n-butylphthalate	94	97	67-123	4	30				
Carbazole	93	94	64-120	1	30				
4-Chloro-3-methylphenol	90	97	76-110	8	30				
4-Chloroaniline	94	98*	23-95	5	30				
bis(2-Chloroethoxy)methane	87	86	75-104	0	30				
bis(2-Chloroethyl)ether	76	76	60-116	0	30				
bis(2-Chloroisopropyl)ether	99	100	55-142	1	30				
2-Chloronaphthalene	68	94	50-141	33*	30				
2-Chlorophenol	94	94	73-121	1	30				
4-Chlorophenyl-phenylether	92	97	80-109	6	30				
Chrysene	96	94	62-128	1	30				
Dibenz(a,h)anthracene	91	89	65-125	1	30				
Dibenzofuran	94	96	71-112	2	30				
1,2-Dichlorobenzene	83	80	66-108	2	30				
1,3-Dichlorobenzene	78	75	63-109	4	30				
1,4-Dichlorobenzene	80	76	70-100	4	30				
3,3'-Dichlorobenzidine	78	73	16-119	5	30				
2,4-Dichlorophenol	94	99	78-117	6	30				
Diethylphthalate	92	95	66-118	4	30				
2,4-Dimethylphenol	86	88	78-110	3	30				
3,5-Dimethylphenol	93	99	70-130	7	30				
Dimethylphthalate	92	95	64-118	3	30				
4,6-Dinitro-2-methylphenol	79	79	24-116	1	30				
2,4-Dinitrophenol	68	64	20-143	6	30				
2,4-Dinitrotoluene	98	104	73-113	6	30				
2,6-Dinitrotoluene	93	97	69-123	5	30				
1,2-Diphenylhydrazine	86	86	71-129	1	30				
bis(2-Ethylhexyl)phthalate	91	94	63-122	3	30				
Fluoranthene	96	96	73-112	1	30				
Hexachlorobenzene	100	99	77-114	1	30				
Hexachlorobutadiene	93	89	62-120	4	30				
Hexachlorocyclopentadiene	81	76	10-153	6	30				
Hexachloroethane	71	69	57-109	3	30				
Indeno(1,2,3-cd)pyrene	91	91	61-126	1	30				
Isophorone	89	90	73-102	2	30				
2-Methylphenol	87	93	75-111	7	30				
4-Methylphenol	86	93	71-111	8	30				
2-Nitroaniline	91	94	67-125	4	30				
3-Nitroaniline	91	95	59-122	5	30				
4-Nitroaniline	79	81	52-112	3	30				
Nitrobenzene	83	80	72-106	4	30				
2-Nitrophenol	93	94	74-115	2	30				
4-Nitrophenol	73	69	54-113	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitroso-di-n-propylamine	83	87	60-116	5	30				
N-Nitrosodiphenylamine	95	95	86-145	0	30				
Di-n-octylphthalate	84	86	56-126	3	30				
Pentachlorophenol	81	78	28-127	4	30				
Phenanthrene	94	94	65-125	1	30				
Phenol	86	89	58-126	4	30				
Pyrene	97	96	74-126	0	30				
1,2,4-Trichlorobenzene	90	87	72-115	2	30				
2,4,5-Trichlorophenol	96	99	78-109	4	30				
2,4,6-Trichlorophenol	95	96	77-115	2	30				
Batch number: 11062SLC026	Sample number(s): 6216199-6216214,6216216 UNSPK: 6216202								
Acenaphthene	65	68	63-105	5	30				
Acenaphthylene	64*	70	67-114	8	30				
Anthracene	66	70	60-122	5	30				
Benzo(a)anthracene	91	121	59-128	22	30				
Benzo(a)pyrene	107	120	45-138	7	30				
Benzo(b)fluoranthene	128	154	43-155	8	30				
Benzo(g,h,i)perylene	35	36	33-141	1	30				
Benzo(k)fluoranthene	164*	180*	42-144	9	30				
Butylbenzylphthalate	134	20*	57-173	51*	30				
Di-n-butylphthalate	26*	15*	65-148	3	30				
Chrysene	85	114	48-134	16	30				
Dibenz(a,h)anthracene	44	50	22-133	10	30				
Diethylphthalate	0*	0*	70-136	0	30				
Dimethylphthalate	0*	0*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	0*	72	39-167	26	30				
Fluoranthene	145	82	26-166	28	30				
Fluorene	64*	71	66-122	10	30				
Indeno(1,2,3-cd)pyrene	46	47	21-143	2	30				
1-Methylnaphthalene	63*	72	72-123	13	30				
2-Methylnaphthalene	58*	66	64-103	12	30				
Naphthalene	62	71	61-102	13	30				
N-Nitrosodimethylamine	62	71	48-113	14	30				
Di-n-octylphthalate	97	127	40-192	15	30				
Phenanthrene	90	69	12-165	18	30				
Pyrene	130	141	15-153	5	30				
Batch number: 110610019A	Sample number(s): 6216199-6216211,6216216 UNSPK: 6216199								
2,4-D	91	78	17-180	16	35				
Dalapon	0*	0*	10-125	0	50				
2,4-DB	0*	0*	10-201	0	50				
Dicamba	64	76	10-190	17	50				
Dinoseb	0*	0*	10-46	0	35				
2,4-DP (Dichlorprop)	95	86	33-178	10	50				
MCPA	56	38	10-213	29	50				
MCPP (Mecoprop)	136	50	10-184	93*	50				
2,4,5-T	43	40	10-156	9	35				
2,4,5-TP	18*	16*	24-141	7	35				
Batch number: 110600022A	Sample number(s): 6216200,6216204 UNSPK: p213415								
6a Perchlorate EPA 6850	102	102	80-120	0	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110600019A	Sample number(s): 6216199-6216211,6216216 UNSPK: 6216199								
Aldrin	70	121	16-126	54*	50				
Alpha BHC	42	70	10-129	49	50				
Beta BHC	53	84	14-147	45	50				
Gamma BHC - Lindane	52	85	10-140	49	50				
p,p-DDD	66	101	16-163	43	50				
p,p-DDE	95	154	18-161	47	50				
p,p-DDT	64	107	10-176	43	50				
Delta BHC	53	88	23-140	49	50				
Dieldrin	45	77	19-154	52*	50				
Endosulfan I	45	76	16-137	50	50				
Endosulfan II	57	88	28-154	43	50				
Endosulfan Sulfate	38	75	21-160	65*	50				
Endrin	61	94	11-149	43	50				
Endrin Aldehyde	56	86	10-148	43*	35				
Endrin Ketone	65	108	22-165	49	50				
Heptachlor	58	94	13-126	48	50				
Heptachlor Epoxide	64	103	13-157	47	50				
Methoxychlor	50	91	32-147	58*	50				
Batch number: 110600028A	Sample number(s): 6216199-6216214,6216216 UNSPK: 6216199								
PCB-1016	118	121	29-146	2	50				
PCB-1260	142	148	39-149	4	50				
Batch number: 110595711002	Sample number(s): 6216199-6216213 UNSPK: P214502 BKG: P214502								
Mercury	97	95	65-135	4	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 110611026001A	Sample number(s): 6216199-6216214,6216216 UNSPK: 6216199 BKG: 6216199								
Antimony	52*	48*	75-125	4	20	0.198	0.200	1 (1)	20
Arsenic	97	93	75-125	0	20	3.97	4.03	2	20
Beryllium	92	103	75-125	7	20	0.709	0.674	5	20
Chromium	113	152*	75-125	13	20	19.3	19.5	1	20
Cobalt	95	98	75-125	5	20	5.27	5.65	7	20
Copper	88	86	75-125	0	20	7.80	7.85	1	20
Lead	115	112	75-125	0	20	5.05	5.18	3	20
Nickel	110	118	75-125	5	20	11.8	12.3	4	20
Silver	98	98	75-125	3	20	0.0297 J	0.0350 J	16 (1)	20
Thallium	92	107	75-125	10	20	0.271	0.274	1 (1)	20
Vanadium	119	153*	75-125	8	20	34.9	36.4	4	20
Zinc	132 (2)	157 (2)	75-125	4	20	53.6	56.7	6	20
Batch number: 110611026001B	Sample number(s): 6216199-6216214,6216216 UNSPK: 6216199 BKG: 6216199								
Selenium	106	121	75-125	15	20	0.132 J	0.110 J	19 (1)	20
Batch number: 110611026001C	Sample number(s): 6216199-6216214,6216216 UNSPK: 6216199 BKG: 6216199								
Molybdenum	98	99	75-125	3	20	0.435	0.464	7 (1)	20
Batch number: 110611026001D	Sample number(s): 6216199-6216214,6216216 UNSPK: 6216199 BKG: 6216199								
Barium	171 (2)	238 (2)	75-125	6	20	104	110	6	20
Batch number: 110615708001	Sample number(s): 6216199-6216214,6216216 UNSPK: 6216199 BKG: 6216199								
Aluminum	1344 (2)	1527 (2)	75-125	2	20	15,400	15,100	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Boron	100	101	84-115	0	20	4.56 J	4.02 J	13 (1)	20
Calcium	161 (2)	165 (2)	75-125	0	20	2,650	2,640	0	20
Iron	446 (2)	-485 (2)	75-125	5	20	18,800	18,200	3	20
Lithium	101	102	82-114	0	20	22.4	21.9	2	20
Magnesium	194 (2)	160 (2)	75-125	2	20	4,060	4,010	1	20
Manganese	106 (2)	24 (2)	75-125	11	20	329	327	1	20
Phosphorus	105	100	75-125	1	20	336	343	2	20
Potassium	138*	152*	75-125	3	20	3,290	3,320	1	20
Sodium	97	98	75-125	1	20	52.5 J	49.7 J	5 (1)	20
Strontium	99	98	75-115	2	20	20.2	19.6	3	20
Tin	90	90	80-110	1	20	2.68 J	2.56 J	5 (1)	20
Titanium	264 (2)	282 (2)	75-125	1	20	1,250	1,250	0	20
Zirconium	96	97	75-125	0	20	1.91 J	2.22 J	15 (1)	20
Batch number: 110665711002	Sample number(s): 6216214,6216216 UNSPK: 6216214 BKG: 6216214								
Mercury	116	92	65-135	19	20	0.0083 J	0.0095 J	14 (1)	20
Batch number: 110701026001A	Sample number(s): 6216199-6216214,6216216 UNSPK: 6216199 BKG: 6216199								
Cadmium	126*	128*	75-125	1	20	0.244	0.191	24* (1)	20
Batch number: 11061243201A	Sample number(s): 6216199-6216214,6216216 UNSPK: 6216216 BKG: 6216216								
3a Cr VI by EPA 7199	87		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11065495201A	Sample number(s): 6216199-6216208 UNSPK: 11065B BKG: 11065B								
7a Perchlorate EPA 314.0	117		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11065495201B	Sample number(s): 6216209-6216214,6216216 UNSPK: 11065C BKG: 11065C								
7a Perchlorate EPA 314.0	112		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11066621202A	Sample number(s): 6216199-6216208 UNSPK: 6216199 BKG: 6216199								
11a Anions by 300.0 - Fluoride	65*		80-120			2.1	2.6	18 (1)	20
Batch number: 11066621202B	Sample number(s): 6216209-6216214,6216216 UNSPK: 6216209 BKG: 6216209								
11a Anions by 300.0 - Fluoride	72*		80-120			2.8	2.8	1 (1)	20
Batch number: 11060039401A	Sample number(s): 6216199-6216207 BKG: 6216199								
22a pH by 9045C						7.54	7.46	1	1
Batch number: 11060039401B	Sample number(s): 6216208-6216214,6216216 BKG: 6216208								
22a pH by 9045C						7.05	7.15	1	1
Batch number: 11060182101A	Sample number(s): 6216199-6216207 BKG: 6216199								
32a OR Potential						282	296	5	6
Batch number: 11060182101B	Sample number(s): 6216208-6216214,6216216 BKG: 6216208								
32a OR Potential						289	296	2	6
Batch number: 11063162402A	Sample number(s): 6216199-6216211 BKG: 6216211								
28a Moisture Content by 160.3						10.4	10.4	1	20
Batch number: 11063162402B	Sample number(s): 6216212-6216214,6216216 BKG: 6216213								
28a Moisture Content by 160.3						9.3	9.6	3	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110592AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6216212	100	102	101	95
6216213	98	100	98	95
6216214	96	97	100	94
Blank	99	101	96	93
LCS	100	106	101	97
LCSD	101	107	101	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110591AA

	Toluene-d8
6216215	98
Blank	98
LCS	98
LCSD	98
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110592AA

	Toluene-d8
6216212	97
6216213	96
6216214	97
Blank	97
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110591AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6216215	103	101	104	102
Blank	102	100	102	100
LCS	103	103	102	100

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Surrogate Quality Control

LCSD	103	103	103	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11059SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6216199	85	89	95	82	93	91
6216200	94	95	97	84	95	87
6216201	82	89	83	82	89	76
6216202	73	81	90	78	88	75
6216203	92	97	98	87	95	90
6216204	90	97	97	86	92	87
6216205	76	80	75	75	83	77
6216206	87	93	88	89	99	85
6216207	88	93	88	87	96	94
6216208	88	92	90	88	98	88
6216209	88	92	88	87	96	84
6216210	85	90	87	86	96	91
6216211	85	90	92	84	93	81
6216212	80	83	85	79	90	87
6216213	81	85	84	80	89	95
6216214	81	85	83	80	90	88
6216216	86	90	86	85	95	85
Blank	78	83	91	80	91	91
LCS	84	88	93	81	92	84
MS	84	88	94	80	90	87
MSD	87	86	98	79	88	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11062SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6216199	88	83	96
6216200	87	84	88
6216201	94	64	87
6216202	71	68	73
6216203	72	68	106
6216204	90	85	124
6216205	86	81	123
6216206	76	75	119
6216207	79	82	123
6216208	85	82	127
6216209	80	79	124
6216210	84	81	143*
6216211	82	81	138*
6216212	77	81	137*
6216213	77	81	132
6216214	62	67	149*
6216216	70	64	133
Blank	86	83	99
LCS	85	84	97
MS	67	63	77
MSRE	57	58	81
MSD	73	66	94

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Quality Control Summary

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Reported: 03/25/11 at 10:12 AM

Surrogate Quality Control

MSDRE	63	62	89
Limits:	40-130	45-130	45-135

Analysis Name: 12a Pesticides by 8081A
Batch number: 110600019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6216199	76	108
6216200	69	81
6216201	72	105
6216202	78	0*
6216203	57	65
6216204	51	29
6216205	62	47
6216206	62	47
6216207	77	26
6216208	69	1023*
6216209	76	50
6216210	75	82
6216211	75	32
6216216	73	61
Blank	84	109
LCS	74	97
MS	44*	53
MSD	76	89
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110600028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6216199	104	134*
6216200	97	129*
6216201	107	125*
6216202	59	76
6216203	100	79
6216204	81	81
6216205	78	87
6216206	81	101
6216207	137	149*
6216208	129	137*
6216209	90	80
6216210	88	80
6216211	97	88
6216212	124	118
6216213	99	117
6216214	95	120
6216216	110	118
Blank	104	135*
LCS	116	135*
LCSD	127	206*
MS	112	145*
MSD	124	141*
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234760
Reported: 03/25/11 at 10:12 AM

Surrogate Quality Control

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110610019A

	2,4-Dichlorophenylacetic acid
6216199	82
6216200	102
6216201	124
6216202	74
6216203	89
6216204	93
6216205	77
6216206	87
6216207	104
6216208	59
6216209	106
6216210	89
6216211	110
6216216	87
Blank	53
LCS	99
MS	76
MSD	66
Limits:	36-156

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1234760 sample# 6216199-216

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16-oz jar collected from the same interval from which Encores were collected

Samplers' Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCT's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SL-007-SA5A-SS-0.0-0.5	2.24.2011	0845	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	Amended COC
SL-007-SA5A-SS-0.0-0.5	2.24.2011	0845	SOIL	NONE	1-6 inch sleeve			X	X							
SL-008-SA5A-SS-0.0-0.5	2.24.2011	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-008-SA5A-SS-0.0-0.5	2.24.2011	0905	SOIL	NONE	1-6 inch sleeve			X	X							
SL-110-SA5A-SS-0.0-0.5	2.24.2011	1308	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-110-SA5A-SS-0.0-0.5	2.24.2011	1308	SOIL	NONE	1-6 inch sleeve			X	X							
SL-119-SA5A-SS-0.0-0.5	2.24.2011	1035	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-119-SA5A-SS-0.0-0.5	2.24.2011	1035	SOIL	NONE	1-6 inch sleeve			X	X							
SL-120-SA5A-SS-0.0-0.5	2.24.2011	1100	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-120-SA5A-SS-0.0-0.5	2.24.2011	1100	SOIL	NONE	1-6 inch sleeve			X	X							
SL-121-SA5A-SS-0.0-0.5	2.24.2011	1005	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-121-SA5A-SS-0.0-0.5	2.24.2011	1005	SOIL	NONE	1-6 inch sleeve			X	X							
SL-136-SA5A-SS-0.0-0.5	2.24.2011	1425	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-136-SA5A-SS-0.0-0.5	2.24.2011	1425	SOIL	NONE	1-6 inch sleeve			X	X							
SL-137-SA5A-SS-0.0-0.5	2.24.2011	1528	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-137-SA5A-SS-0.0-0.5	2.24.2011	1528	SOIL	NONE	1-6 inch sleeve			X	X							
SL-138-SA5A-SS-0.0-0.5	2.24.2011	1500	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-138-SA5A-SS-0.0-0.5	2.24.2011	1500	SOIL	NONE	1-6 inch sleeve			X	X							
SL-143-SA5A-SS-0.0-0.5	2.24.2011	1338	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-143-SA5A-SS-0.0-0.5	2.24.2011	1338	SOIL	NONE	1-6 inch sleeve			X	X							
SL-233-SA5A-SS-0.0-0.5	2.24.2011	0922	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-233-SA5A-SS-0.0-0.5	2.24.2011	0922	SOIL	NONE	1-6 inch sleeve			X	X							
SL-250-SA5A-SS-0.0-0.5	2.24.2011	1020	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-250-SA5A-SS-0.0-0.5	2.24.2011	1020	SOIL	NONE	1-6 inch sleeve			X	X							
SL-251-SA5A-SS-0.0-0.5	2.24.2011	1405	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-251-SA5A-SS-0.0-0.5	2.24.2011	1405	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		Laboratory:
	02/24/2011 / 17:00		2/25/11 1140	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**		
		8695 1432 0130; 8695 1432 0141		

Additional Sample Received: SL-122-SA5A-SS-0.0-0.5 2/24/11 @ 9:50 - entered for all primary and SS analytes except Perchlorate Confirmation

NM 3/2/11

acct#13013 Gp#1234760 sample#6216199-216

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16-oz jar collected from the same interval from which Encores were collected

Samplers' Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SL-007-SA5A-SS-0.0-0.5	2.24.2011	0845	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-007-SA5A-SS-0.0-0.5	2.24.2011	0845	SOIL	NONE	1-6 inch sleeve			X	X							
SL-008-SA5A-SS-0.0-0.5	2.24.2011	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-008-SA5A-SS-0.0-0.5	2.24.2011	0905	SOIL	NONE	1-6 inch sleeve			X	X							
SL-110-SA5A-SS-0.0-0.5	2.24.2011	1308	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-110-SA5A-SS-0.0-0.5	2.24.2011	1308	SOIL	NONE	1-6 inch sleeve			X	X							
SL-119-SA5A-SS-0.0-0.5	2.24.2011	1035	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-119-SA5A-SS-0.0-0.5	2.24.2011	1035	SOIL	NONE	1-6 inch sleeve			X	X							
SL-120-SA5A-SS-0.0-0.5	2.24.2011	1100	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-120-SA5A-SS-0.0-0.5	2.24.2011	1100	SOIL	NONE	1-6 inch sleeve			X	X							
SL-121-SA5A-SS-0.0-0.5	2.24.2011	1005	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-121-SA5A-SS-0.0-0.5	2.24.2011	1005	SOIL	NONE	1-6 inch sleeve			X	X							
SL-136-SA5A-SS-0.0-0.5	2.24.2011	1425	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-136-SA5A-SS-0.0-0.5	2.24.2011	1425	SOIL	NONE	1-6 inch sleeve			X	X							
SL-137-SA5A-SS-0.0-0.5	2.24.2011	1528	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-137-SA5A-SS-0.0-0.5	2.24.2011	1528	SOIL	NONE	1-6 inch sleeve			X	X							
SL-138-SA5A-SS-0.0-0.5	2.24.2011	1500	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-138-SA5A-SS-0.0-0.5	2.24.2011	1500	SOIL	NONE	1-6 inch sleeve			X	X							
SL-143-SA5A-SS-0.0-0.5	2.24.2011	1338	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-143-SA5A-SS-0.0-0.5	2.24.2011	1338	SOIL	NONE	1-6 inch sleeve			X	X							
SL-233-SA5A-SS-0.0-0.5	2.24.2011	0922	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-233-SA5A-SS-0.0-0.5	2.24.2011	0922	SOIL	NONE	1-6 inch sleeve			X	X							
SL-250-SA5A-SS-0.0-0.5	2.24.2011	1020	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-250-SA5A-SS-0.0-0.5	2.24.2011	1020	SOIL	NONE	1-6 inch sleeve			X	X							
SL-251-SA5A-SS-0.0-0.5	2.24.2011	1405	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-251-SA5A-SS-0.0-0.5	2.24.2011	1405	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (*Signature*) — Date/Time: 02/24/2011 / 17:00

Received for Laboratory by: (*Signature*) — 2/25/11 1140

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8695 1432 0130; 8695 1432 0141

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Gp# 1234760 Sample# 6216199-216

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
SL-021-SA5A-SB-3.0-4.0	2.24.11	0948	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-021-SA5A-SB-3.5	2.24.11	0945	SOIL	NONE	4-Encores									X	X		
SL-022-SA5A-SB-4.0-5.0	2.24.11	1123	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-022-SA5A-SB-4.5	2.24.11	1120	SOIL	NONE	4-Encores									X	X		
SL-050-SA5A-SB-4.0-5.0	2.24.11	1530	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-050-SA5A-SB-4.5	2.24.11	1527	SOIL	NONE	4-Encores									X	X		
TB-022411	2.24.11	1600	WATER	HCl	3-40 mL VOA VIALS									X	X		TRIP BLANK

Relinquished by: (*Signature*)	Date/Time: 02/24/2011 / 17:00	Received for Laboratory by: (*Signature*) 2/25/11 1140	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s): 8695 1432 0130; 8695 1432 0141	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 23, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/25/2011
Group Number: 1234762
SDG: DX056
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-007-SA5A-SS-0.0-0.5 Soil	6216231
SL-008-SA5A-SS-0.0-0.5 Soil	6216232
SL-110-SA5A-SS-0.0-0.5 Soil	6216233
SL-119-SA5A-SS-0.0-0.5 Soil	6216234
SL-120-SA5A-SS-0.0-0.5 Soil	6216235
SL-121-SA5A-SS-0.0-0.5 Soil	6216236
SL-136-SA5A-SS-0.0-0.5 Soil	6216237
SL-137-SA5A-SS-0.0-0.5 Soil	6216238
SL-138-SA5A-SS-0.0-0.5 Soil	6216239
SL-143-SA5A-SS-0.0-0.5 Soil	6216240
SL-233-SA5A-SS-0.0-0.5 Soil	6216241
SL-250-SA5A-SS-0.0-0.5 Soil	6216242
SL-251-SA5A-SS-0.0-0.5 Soil	6216243
SL-021-SA5A-SB-3.0-4.0 Soil	6216244
SL-022-SA5A-SB-4.0-5.0 Soil	6216245
SL-050-SA5A-SB-4.0-5.0 Soil	6216246
SL-122-SA5A-SS-0.0-0.5 Soil	6216247

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-007-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SS-0.0-0.5

LLI Sample # SW 6216231
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 08:45

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5601 SDG#: DX056-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SS-0.0-0.5

LLI Sample # SW 6216231
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 08:45

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5601 SDG#: DX056-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0321	JB	0.0121	1.12	1
11031	12378-PeCDD	40321-76-4	0.213	JBQ	0.0229	5.58	1
11031	123478-HxCDD	39227-28-6	0.329	JB	0.0304	5.58	1
11031	123678-HxCDD	57653-85-7	1.21	JB	0.0289	5.58	1
11031	123789-HxCDD	19408-74-3	0.978	JB	0.0278	5.58	1
11031	1234678-HpCDD	35822-46-9	25.4	B	0.0485	5.58	1
11031	OCDD	3268-87-9	646	B	0.0468	11.2	1
11031	2378-TCDF	51207-31-9	0.0456	JB	0.0143	1.12	1
11031	12378-PeCDF	57117-41-6	0.0995	JB	0.00938	5.58	1
11031	23478-PeCDF	57117-31-4	0.204	JB	0.00926	5.58	1
11031	123478-HxCDF	70648-26-9	0.295	JB	0.0267	5.58	1
11031	123678-HxCDF	57117-44-9	0.187	JB	0.0200	5.58	1
11031	123789-HxCDF	72918-21-9	0.392	JB	0.0170	5.58	1
11031	234678-HxCDF	60851-34-5	0.345	JB	0.0157	5.58	1
11031	1234678-HpCDF	67562-39-4	2.28	JB	0.0158	5.58	1
11031	1234789-HpCDF	55673-89-7	0.237	JBQ	0.0170	5.58	1
11031	OCDF	39001-02-0	6.44	JB	0.0186	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-007-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SS-0.0-0.5

LLI Sample # SW 6216231
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 08:45

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5601 SDG#: DX056-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-007-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SS-0.0-0.5

LLI Sample # SW 6216231
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 08:45

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5601 SDG#: DX056-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/08/2011 14:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5A-SS-0.0-0.5

LLI Sample # SW 6216232
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:05

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5602 SDG#: DX056-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5A-SS-0.0-0.5

LLI Sample # SW 6216232
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:05

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5602 SDG#: DX056-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0146	JBQ	0.00983	1.10	1
11031	12378-PeCDD	40321-76-4	0.167	JB	0.0147	5.52	1
11031	123478-HxCDD	39227-28-6	0.286	JB	0.0284	5.52	1
11031	123678-HxCDD	57653-85-7	0.753	JB	0.0275	5.52	1
11031	123789-HxCDD	19408-74-3	0.738	JB	0.0235	5.52	1
11031	1234678-HpCDD	35822-46-9	17.7	B	0.0407	5.52	1
11031	OCDD	3268-87-9	179	B	0.0291	11.0	1
11031	2378-TCDF	51207-31-9	0.0666	JB	0.0218	1.10	1
11031	12378-PeCDF	57117-41-6	0.113	JB	0.0128	5.52	1
11031	23478-PeCDF	57117-31-4	0.265	JB	0.0118	5.52	1
11031	123478-HxCDF	70648-26-9	0.554	JB	0.0350	5.52	1
11031	123678-HxCDF	57117-44-9	0.241	JB	0.0270	5.52	1
11031	123789-HxCDF	72918-21-9	0.237	JB	0.0175	5.52	1
11031	234678-HxCDF	60851-34-5	0.503	JB	0.0165	5.52	1
11031	1234678-HpCDF	67562-39-4	4.47	JB	0.0227	5.52	1
11031	1234789-HpCDF	55673-89-7	0.354	JB	0.0187	5.52	1
11031	OCDF	39001-02-0	7.62	JB	0.0148	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-008-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5A-SS-0.0-0.5

LLI Sample # SW 6216232
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:05

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5602 SDG#: DX056-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-008-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5A-SS-0.0-0.5

LLI Sample # SW 6216232
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:05

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5602 SDG#: DX056-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/08/2011 15:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-110-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5A-SS-0.0-0.5

LLI Sample # SW 6216233
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:08

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5603 SDG#: DX056-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-110-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5A-SS-0.0-0.5

LLI Sample # SW 6216233
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:08

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5603 SDG#: DX056-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.159	JB	0.0169	1.18	1
11031	12378-PeCDD	40321-76-4	1.36	JB	0.0367	5.92	1
11031	123478-HxCDD	39227-28-6	2.88	JB	0.0576	5.92	1
11031	123678-HxCDD	57653-85-7	7.51	B	0.0517	5.92	1
11031	123789-HxCDD	19408-74-3	4.24	JB	0.0432	5.92	1
11031	1234678-HpCDD	35822-46-9	232	B	0.124	5.92	1
11031	OCDD	3268-87-9	4,200	B	0.101	11.8	1
11031	2378-TCDF	51207-31-9	0.683	JB	0.0690	1.18	1
11031	12378-PeCDF	57117-41-6	0.632	JB	0.0329	5.92	1
11031	23478-PeCDF	57117-31-4	2.02	JB	0.0320	5.92	1
11031	123478-HxCDF	70648-26-9	4.61	JB	0.109	5.92	1
11031	123678-HxCDF	57117-44-9	2.54	JB	0.0791	5.92	1
11031	123789-HxCDF	72918-21-9	1.74	JB	0.0424	5.92	1
11031	234678-HxCDF	60851-34-5	2.97	JB	0.0404	5.92	1
11031	1234678-HpCDF	67562-39-4	47.6	B	0.0698	5.92	1
11031	1234789-HpCDF	55673-89-7	4.04	JB	0.0417	5.92	1
11031	OCDF	39001-02-0	84.0	B	0.0265	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	30	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-110-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5A-SS-0.0-0.5

LLI Sample # SW 6216233
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:08

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5603 SDG#: DX056-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-110-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5A-SS-0.0-0.5

LLI Sample # SW 6216233
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:08

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5603 SDG#: DX056-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/08/2011 16:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-119-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5A-SS-0.0-0.5

LLI Sample # SW 6216234
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:35

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5604 SDG#: DX056-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	19.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5A-SS-0.0-0.5

LLI Sample # SW 6216234
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:35

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5604 SDG#: DX056-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.327 J	0.0229	1.24	1
11031	12378-PeCDD	40321-76-4	3.25 JB	0.0585	6.18	1
11031	123478-HxCDD	39227-28-6	7.56 B	0.0782	6.18	1
11031	123678-HxCDD	57653-85-7	30.3 B	0.0791	6.18	1
11031	123789-HxCDD	19408-74-3	15.3 B	0.0740	6.18	1
11031	1234678-HpCDD	35822-46-9	1,280 B	0.187	6.18	1
11031	OCDD	3268-87-9	13,000 EB	0.203	12.4	1
11031	2378-TCDF	51207-31-9	1.01 JB	0.103	1.24	1
11031	12378-PeCDF	57117-41-6	1.36 JB	0.0523	6.18	1
11031	23478-PeCDF	57117-31-4	3.71 JB	0.0481	6.18	1
11031	123478-HxCDF	70648-26-9	7.96 B	0.0695	6.18	1
11031	123678-HxCDF	57117-44-9	7.24 B	0.0646	6.18	1
11031	123789-HxCDF	72918-21-9	2.14 JB	0.0569	6.18	1
11031	234678-HxCDF	60851-34-5	8.45 B	0.0575	6.18	1
11031	1234678-HpCDF	67562-39-4	102 B	0.0593	6.18	1
11031	1234789-HpCDF	55673-89-7	12.6 B	0.0625	6.18	1
11031	OCDF	39001-02-0	200 B	0.0340	12.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	77	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5A-SS-0.0-0.5

LLI Sample # SW 6216234
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:35

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5604 SDG#: DX056-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-119-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5A-SS-0.0-0.5

LLI Sample # SW 6216234
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:35

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5604 SDG#: DX056-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11073001	03/16/2011 18:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11073001	03/14/2011 13:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5A-SS-0.0-0.5

LLI Sample # SW 6216235
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:00

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5605 SDG#: DX056-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5A-SS-0.0-0.5

LLI Sample # SW 6216235
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:00

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5605 SDG#: DX056-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0204	JBQ	0.0195	1.11	1
11031	12378-PeCDD	40321-76-4	0.338	JB	0.0385	5.54	1
11031	123478-HxCDD	39227-28-6	0.575	JB	0.0537	5.54	1
11031	123678-HxCDD	57653-85-7	1.90	JB	0.0501	5.54	1
11031	123789-HxCDD	19408-74-3	1.04	JB	0.0437	5.54	1
11031	1234678-HpCDD	35822-46-9	58.2	B	0.0714	5.54	1
11031	OCDD	3268-87-9	852	B	0.0708	11.1	1
11031	2378-TCDF	51207-31-9	0.530	JB	0.0908	1.11	1
11031	12378-PeCDF	57117-41-6	0.363	JB	0.0275	5.54	1
11031	23478-PeCDF	57117-31-4	0.697	JB	0.0272	5.54	1
11031	123478-HxCDF	70648-26-9	1.45	JB	0.0656	5.54	1
11031	123678-HxCDF	57117-44-9	0.541	JBQ	0.0473	5.54	1
11031	123789-HxCDF	72918-21-9	0.220	JBQ	0.0310	5.54	1
11031	234678-HxCDF	60851-34-5	0.686	JB	0.0277	5.54	1
11031	1234678-HpCDF	67562-39-4	6.92	B	0.0531	5.54	1
11031	1234789-HpCDF	55673-89-7	0.855	JB	0.0365	5.54	1
11031	OCDF	39001-02-0	11.9	B	0.0400	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	44	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5A-SS-0.0-0.5

LLI Sample # SW 6216235
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:00

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5605 SDG#: DX056-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5A-SS-0.0-0.5

LLI Sample # SW 6216235
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:00

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5605 SDG#: DX056-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/08/2011 18:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SS-0.0-0.5

LLI Sample # SW 6216236
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:05

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5606 SDG#: DX056-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SS-0.0-0.5

LLI Sample # SW 6216236
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:05

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5606 SDG#: DX056-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0333	JQ	0.0113	1.11	1
11031	12378-PeCDD	40321-76-4	0.126	JBQ	0.0233	5.54	1
11031	123478-HxCDD	39227-28-6	0.209	JB	0.0323	5.54	1
11031	123678-HxCDD	57653-85-7	1.14	JB	0.0336	5.54	1
11031	123789-HxCDD	19408-74-3	0.472	JB	0.0316	5.54	1
11031	1234678-HpCDD	35822-46-9	65.8	B	0.0539	5.54	1
11031	OCDD	3268-87-9	751	B	0.0524	11.1	1
11031	2378-TCDF	51207-31-9	0.354	JB	0.0614	1.11	1
11031	12378-PeCDF	57117-41-6	0.914	JB	0.0305	5.54	1
11031	23478-PeCDF	57117-31-4	1.19	JB	0.0289	5.54	1
11031	123478-HxCDF	70648-26-9	0.614	JB	0.0274	5.54	1
11031	123678-HxCDF	57117-44-9	0.415	JB	0.0258	5.54	1
11031	123789-HxCDF	72918-21-9	0.149	JB	0.0246	5.54	1
11031	234678-HxCDF	60851-34-5	0.434	JB	0.0254	5.54	1
11031	1234678-HpCDF	67562-39-4	4.54	JB	0.0310	5.54	1
11031	1234789-HpCDF	55673-89-7	0.544	JB	0.0350	5.54	1
11031	OCDF	39001-02-0	9.77	JB	0.0247	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SS-0.0-0.5

LLI Sample # SW 6216236
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:05

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5606 SDG#: DX056-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SS-0.0-0.5

LLI Sample # SW 6216236
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:05

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5606 SDG#: DX056-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11073001	03/16/2011 19:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11073001	03/14/2011 13:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-136-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SS-0.0-0.5

LLI Sample # SW 6216237
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:25

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5607 SDG#: DX056-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-136-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SS-0.0-0.5

LLI Sample # SW 6216237
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:25

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5607 SDG#: DX056-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0351	JB	0.0102	1.09	1
11031	12378-PeCDD	40321-76-4	0.139	JB	0.0175	5.46	1
11031	123478-HxCDD	39227-28-6	0.0289	U	0.0289	5.46	1
11031	123678-HxCDD	57653-85-7	0.614	JB	0.0274	5.46	1
11031	123789-HxCDD	19408-74-3	0.366	JB	0.0238	5.46	1
11031	1234678-HpCDD	35822-46-9	14.4	B	0.0459	5.46	1
11031	OCDD	3268-87-9	341	B	0.0379	10.9	1
11031	2378-TCDF	51207-31-9	0.0626	JB	0.0142	1.09	1
11031	12378-PeCDF	57117-41-6	0.115	JB	0.0127	5.46	1
11031	23478-PeCDF	57117-31-4	0.353	JB	0.0121	5.46	1
11031	123478-HxCDF	70648-26-9	0.525	JB	0.0439	5.46	1
11031	123678-HxCDF	57117-44-9	0.301	JB	0.0325	5.46	1
11031	123789-HxCDF	72918-21-9	0.362	JB	0.0231	5.46	1
11031	234678-HxCDF	60851-34-5	0.300	JB	0.0202	5.46	1
11031	1234678-HpCDF	67562-39-4	4.41	JB	0.0292	5.46	1
11031	1234789-HpCDF	55673-89-7	0.409	JB	0.0244	5.46	1
11031	OCDF	39001-02-0	8.31	JB	0.0202	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-136-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SS-0.0-0.5

LLI Sample # SW 6216237
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:25

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5607 SDG#: DX056-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-136-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SS-0.0-0.5

LLI Sample # SW 6216237
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:25

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5607 SDG#: DX056-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/08/2011 20:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SS-0.0-0.5

LLI Sample # SW 6216238
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:28

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5608 SDG#: DX056-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-137-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SS-0.0-0.5

LLI Sample # SW 6216238
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:28

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5608 SDG#: DX056-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0963	J	0.0162	1.19	1
11031	12378-PeCDD	40321-76-4	0.549	JB	0.0401	5.97	1
11031	123478-HxCDD	39227-28-6	1.05	JB	0.0391	5.97	1
11031	123678-HxCDD	57653-85-7	3.95	JB	0.0393	5.97	1
11031	123789-HxCDD	19408-74-3	1.88	JB	0.0370	5.97	1
11031	1234678-HpCDD	35822-46-9	140	B	0.0915	5.97	1
11031	OCDD	3268-87-9	2,450	B	0.0962	11.9	1
11031	2378-TCDF	51207-31-9	0.554	JB	0.0730	1.19	1
11031	12378-PeCDF	57117-41-6	0.751	JB	0.0351	5.97	1
11031	23478-PeCDF	57117-31-4	1.42	JB	0.0346	5.97	1
11031	123478-HxCDF	70648-26-9	3.16	JB	0.0481	5.97	1
11031	123678-HxCDF	57117-44-9	1.45	JB	0.0432	5.97	1
11031	123789-HxCDF	72918-21-9	1.18	JB	0.0425	5.97	1
11031	234678-HxCDF	60851-34-5	1.77	JB	0.0413	5.97	1
11031	1234678-HpCDF	67562-39-4	36.7	B	0.0394	5.97	1
11031	1234789-HpCDF	55673-89-7	2.56	JB	0.0526	5.97	1
11031	OCDF	39001-02-0	84.3	B	0.0397	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SS-0.0-0.5

LLI Sample # SW 6216238
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:28

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5608 SDG#: DX056-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SS-0.0-0.5

LLI Sample # SW 6216238
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:28

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5608 SDG#: DX056-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11073001	03/16/2011 20:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11073001	03/14/2011 13:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-138-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SS-0.0-0.5

LLI Sample # SW 6216239
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:00

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5609 SDG#: DX056-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SS-0.0-0.5

LLI Sample # SW 6216239
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:00

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5609 SDG#: DX056-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0470 JBQ	0.0104	1.14	1
11031	12378-PeCDD	40321-76-4	0.229 JB	0.0240	5.68	1
11031	123478-HxCDD	39227-28-6	0.414 JB	0.0404	5.68	1
11031	123678-HxCDD	57653-85-7	1.38 JB	0.0368	5.68	1
11031	123789-HxCDD	19408-74-3	0.793 JB	0.0288	5.68	1
11031	1234678-HpCDD	35822-46-9	52.1 B	0.0611	5.68	1
11031	OCDD	3268-87-9	693 B	0.0589	11.4	1
11031	2378-TCDF	51207-31-9	0.139 JB	0.0268	1.14	1
11031	12378-PeCDF	57117-41-6	0.136 JB	0.0161	5.68	1
11031	23478-PeCDF	57117-31-4	0.366 JB	0.0158	5.68	1
11031	123478-HxCDF	70648-26-9	0.0537 U	0.0537	5.68	1
11031	123678-HxCDF	57117-44-9	0.556 JB	0.0405	5.68	1
11031	123789-HxCDF	72918-21-9	0.318 JB	0.0232	5.68	1
11031	234678-HxCDF	60851-34-5	0.421 JB	0.0219	5.68	1
11031	1234678-HpCDF	67562-39-4	9.67 B	0.0438	5.68	1
11031	1234789-HpCDF	55673-89-7	0.642 JB	0.0287	5.68	1
11031	OCDF	39001-02-0	29.1 B	0.0232	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	33	26 - 152
13C12-123678-HxCDF	43	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	44	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SS-0.0-0.5

LLI Sample # SW 6216239
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:00

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5609 SDG#: DX056-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SS-0.0-0.5

LLI Sample # SW 6216239
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:00

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5609 SDG#: DX056-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/09/2011 01:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-143-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SS-0.0-0.5

LLI Sample # SW 6216240
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:38

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5610 SDG#: DX056-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-143-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SS-0.0-0.5

LLI Sample # SW 6216240
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:38

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5610 SDG#: DX056-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0422	JBQ	0.0123	1.13	1
11031	12378-PeCDD	40321-76-4	0.283	JB	0.0282	5.66	1
11031	123478-HxCDD	39227-28-6	0.445	JB	0.0372	5.66	1
11031	123678-HxCDD	57653-85-7	1.82	JB	0.0374	5.66	1
11031	123789-HxCDD	19408-74-3	0.844	JB	0.0331	5.66	1
11031	1234678-HpCDD	35822-46-9	61.6	B	0.0781	5.66	1
11031	OCDD	3268-87-9	909	B	0.0735	11.3	1
11031	2378-TCDF	51207-31-9	1.12	JB	0.0962	1.13	1
11031	12378-PeCDF	57117-41-6	0.725	JB	0.0373	5.66	1
11031	23478-PeCDF	57117-31-4	1.45	JB	0.0351	5.66	1
11031	123478-HxCDF	70648-26-9	2.28	JB	0.0568	5.66	1
11031	123678-HxCDF	57117-44-9	0.791	JB	0.0425	5.66	1
11031	123789-HxCDF	72918-21-9	0.439	JB	0.0360	5.66	1
11031	234678-HxCDF	60851-34-5	0.634	JB	0.0330	5.66	1
11031	1234678-HpCDF	67562-39-4	11.2	B	0.0340	5.66	1
11031	1234789-HpCDF	55673-89-7	0.897	JB	0.0337	5.66	1
11031	OCDF	39001-02-0	37.5	B	0.0241	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-143-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SS-0.0-0.5

LLI Sample # SW 6216240
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:38

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5610 SDG#: DX056-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-143-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SS-0.0-0.5

LLI Sample # SW 6216240
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 13:38

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5610 SDG#: DX056-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/09/2011 02:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-233-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SS-0.0-0.5

LLI Sample # SW 6216241
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:22

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5611 SDG#: DX056-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-233-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SS-0.0-0.5

LLI Sample # SW 6216241
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:22

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5611 SDG#: DX056-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0162 JB	0.00923	1.10	1
11031	12378-PeCDD	40321-76-4	0.0461 JBQ	0.0118	5.49	1
11031	123478-HxCDD	39227-28-6	0.0527 JBQ	0.0225	5.49	1
11031	123678-HxCDD	57653-85-7	0.264 JB	0.0213	5.49	1
11031	123789-HxCDD	19408-74-3	0.189 JB	0.0195	5.49	1
11031	1234678-HpCDD	35822-46-9	6.84 B	0.0299	5.49	1
11031	OCDD	3268-87-9	87.0 B	0.0242	11.0	1
11031	2378-TCDF	51207-31-9	0.0454 JBQ	0.0234	1.10	1
11031	12378-PeCDF	57117-41-6	0.0482 JB	0.0134	5.49	1
11031	23478-PeCDF	57117-31-4	0.265 JB	0.0133	5.49	1
11031	123478-HxCDF	70648-26-9	0.648 JB	0.0387	5.49	1
11031	123678-HxCDF	57117-44-9	0.116 JBQ	0.0273	5.49	1
11031	123789-HxCDF	72918-21-9	0.129 JB	0.0209	5.49	1
11031	234678-HxCDF	60851-34-5	0.135 JBQ	0.0186	5.49	1
11031	1234678-HpCDF	67562-39-4	1.50 JB	0.0184	5.49	1
11031	1234789-HpCDF	55673-89-7	0.123 JB	0.0176	5.49	1
11031	OCDF	39001-02-0	3.38 JB	0.0193	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-233-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SS-0.0-0.5

LLI Sample # SW 6216241
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:22

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5611 SDG#: DX056-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-233-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SS-0.0-0.5

LLI Sample # SW 6216241
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:22

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5611 SDG#: DX056-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/09/2011 03:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-250-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-250-SA5A-SS-0.0-0.5

LLI Sample # SW 6216242
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:20

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5612 SDG#: DX056-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-250-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-250-SA5A-SS-0.0-0.5

LLI Sample # SW 6216242
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:20

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5612 SDG#: DX056-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0532	JQ	0.0348	1.10	1
11031	12378-PeCDD	40321-76-4	0.191	JB	0.0370	5.51	1
11031	123478-HxCDD	39227-28-6	0.382	JB	0.0553	5.51	1
11031	123678-HxCDD	57653-85-7	2.62	JB	0.0548	5.51	1
11031	123789-HxCDD	19408-74-3	0.994	JB	0.0491	5.51	1
11031	1234678-HpCDD	35822-46-9	176	B	0.107	5.51	1
11031	OCDD	3268-87-9	2,320	B	0.0905	11.0	1
11031	2378-TCDF	51207-31-9	0.0752	U	0.0752	1.10	1
11031	12378-PeCDF	57117-41-6	0.0338	U	0.0338	5.51	1
11031	23478-PeCDF	57117-31-4	1.99	JB	0.0314	5.51	1
11031	123478-HxCDF	70648-26-9	0.903	JB	0.0520	5.51	1
11031	123678-HxCDF	57117-44-9	0.592	JB	0.0430	5.51	1
11031	123789-HxCDF	72918-21-9	0.201	JB	0.0377	5.51	1
11031	234678-HxCDF	60851-34-5	0.708	JB	0.0327	5.51	1
11031	1234678-HpCDF	67562-39-4	9.55	B	0.0439	5.51	1
11031	1234789-HpCDF	55673-89-7	1.14	JB	0.0439	5.51	1
11031	OCDF	39001-02-0	20.8	B	0.0313	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-250-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-250-SA5A-SS-0.0-0.5

LLI Sample # SW 6216242
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:20

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5612 SDG#: DX056-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-250-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-250-SA5A-SS-0.0-0.5

LLI Sample # SW 6216242
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 10:20

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5612 SDG#: DX056-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11073001	03/16/2011 21:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11073001	03/14/2011 13:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-251-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-251-SA5A-SS-0.0-0.5

LLI Sample # SW 6216243
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:05

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5613 SDG#: DX056-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-251-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-251-SA5A-SS-0.0-0.5

LLI Sample # SW 6216243
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:05

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5613 SDG#: DX056-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0126 JBQ	0.00938	1.12	1
11031	12378-PeCDD	40321-76-4	0.0607 JBQ	0.0160	5.58	1
11031	123478-HxCDD	39227-28-6	0.0701 JB	0.0285	5.58	1
11031	123678-HxCDD	57653-85-7	0.518 JB	0.0296	5.58	1
11031	123789-HxCDD	19408-74-3	0.317 JB	0.0280	5.58	1
11031	1234678-HpCDD	35822-46-9	26.9 B	0.0410	5.58	1
11031	OCDD	3268-87-9	266 B	0.0344	11.2	1
11031	2378-TCDF	51207-31-9	0.0432 JBQ	0.0134	1.12	1
11031	12378-PeCDF	57117-41-6	0.0552 JB	0.00904	5.58	1
11031	23478-PeCDF	57117-31-4	0.144 JB	0.00871	5.58	1
11031	123478-HxCDF	70648-26-9	0.157 JB	0.0193	5.58	1
11031	123678-HxCDF	57117-44-9	0.113 JBQ	0.0156	5.58	1
11031	123789-HxCDF	72918-21-9	0.254 JB	0.0155	5.58	1
11031	234678-HxCDF	60851-34-5	0.120 JB	0.0141	5.58	1
11031	1234678-HpCDF	67562-39-4	1.86 JB	0.0211	5.58	1
11031	1234789-HpCDF	55673-89-7	0.172 JBQ	0.0240	5.58	1
11031	OCDF	39001-02-0	3.69 JB	0.0205	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-251-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-251-SA5A-SS-0.0-0.5

LLI Sample # SW 6216243
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:05

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5613 SDG#: DX056-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-251-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-251-SA5A-SS-0.0-0.5

LLI Sample # SW 6216243
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 14:05

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5613 SDG#: DX056-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/09/2011 05:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402A	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SB-3.0-4.0

LLI Sample # SW 6216244
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:48

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5614 SDG#: DX056-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SB-3.0-4.0

LLI Sample # SW 6216244
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:48

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5614 SDG#: DX056-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.00921 U	0.00921	1.11	1
11031	12378-PeCDD	40321-76-4	0.0195 JBQ	0.0101	5.55	1
11031	123478-HxCDD	39227-28-6	0.0103 U	0.0103	5.55	1
11031	123678-HxCDD	57653-85-7	0.0152 JBQ	0.00943	5.55	1
11031	123789-HxCDD	19408-74-3	0.0402 JBQ	0.00788	5.55	1
11031	1234678-HpCDD	35822-46-9	0.130 JB	0.0124	5.55	1
11031	OCDD	3268-87-9	0.728 JB	0.0220	11.1	1
11031	2378-TCDF	51207-31-9	0.0132 JBQ	0.00677	1.11	1
11031	12378-PeCDF	57117-41-6	0.0205 JBQ	0.00455	5.55	1
11031	23478-PeCDF	57117-31-4	0.0380 JBQ	0.00477	5.55	1
11031	123478-HxCDF	70648-26-9	0.0415 JBQ	0.0109	5.55	1
11031	123678-HxCDF	57117-44-9	0.0149 JBQ	0.00766	5.55	1
11031	123789-HxCDF	72918-21-9	0.0430 JBQ	0.00511	5.55	1
11031	234678-HxCDF	60851-34-5	0.0275 JB	0.00477	5.55	1
11031	1234678-HpCDF	67562-39-4	0.0558 JB	0.0110	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0170 JBQ	0.00966	5.55	1
11031	OCDF	39001-02-0	0.0888 JBQ	0.0143	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	33	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	49	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SB-3.0-4.0

LLI Sample # SW 6216244
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:48

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5614 SDG#: DX056-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SB-3.0-4.0

LLI Sample # SW 6216244
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:48

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5614 SDG#: DX056-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/09/2011 06:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402B	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SB-4.0-5.0

LLI Sample # SW 6216245
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:23

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5615 SDG#: DX056-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SB-4.0-5.0

LLI Sample # SW 6216245
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:23

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5615 SDG#: DX056-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0105	JBQ	0.00860	1.10	1
11031	12378-PeCDD	40321-76-4	0.0105	U	0.0105	5.51	1
11031	123478-HxCDD	39227-28-6	0.0129	JBQ	0.00981	5.51	1
11031	123678-HxCDD	57653-85-7	0.0327	JBQ	0.00992	5.51	1
11031	123789-HxCDD	19408-74-3	0.0424	JB	0.00904	5.51	1
11031	1234678-HpCDD	35822-46-9	0.159	JBQ	0.0114	5.51	1
11031	OCDD	3268-87-9	0.549	JB	0.0185	11.0	1
11031	2378-TCDF	51207-31-9	0.00983	JBQ	0.00662	1.10	1
11031	12378-PeCDF	57117-41-6	0.0273	JBQ	0.00507	5.51	1
11031	23478-PeCDF	57117-31-4	0.0577	JB	0.00496	5.51	1
11031	123478-HxCDF	70648-26-9	0.0280	JBQ	0.00540	5.51	1
11031	123678-HxCDF	57117-44-9	0.0198	JBQ	0.00485	5.51	1
11031	123789-HxCDF	72918-21-9	0.0357	JBQ	0.00496	5.51	1
11031	234678-HxCDF	60851-34-5	0.0228	JBQ	0.00485	5.51	1
11031	1234678-HpCDF	67562-39-4	0.0711	JB	0.00397	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0107	JBQ	0.00518	5.51	1
11031	OCDF	39001-02-0	0.0776	JBQ	0.0101	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-022-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SB-4.0-5.0

LLI Sample # SW 6216245
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:23

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5615 SDG#: DX056-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SB-4.0-5.0

LLI Sample # SW 6216245
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 11:23

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5615 SDG#: DX056-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/09/2011 07:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402B	03/04/2011 19:55	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SB-4.0-5.0

LLI Sample # SW 6216246
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:30

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5616 SDG#: DX056-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SB-4.0-5.0

LLI Sample # SW 6216246
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:30

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5616 SDG#: DX056-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0171 JBQ	0.00985	1.15	1
11031	12378-PeCDD	40321-76-4	0.0731 JBQ	0.0123	5.73	1
11031	123478-HxCDD	39227-28-6	0.0339 JBQ	0.00871	5.73	1
11031	123678-HxCDD	57653-85-7	0.0385 JB	0.00836	5.73	1
11031	123789-HxCDD	19408-74-3	0.0425 JBQ	0.00790	5.73	1
11031	1234678-HpCDD	35822-46-9	0.166 JB	0.0116	5.73	1
11031	OCDD	3268-87-9	0.531 JB	0.0151	11.5	1
11031	2378-TCDF	51207-31-9	0.00848 U	0.00848	1.15	1
11031	12378-PeCDF	57117-41-6	0.0676 JB	0.00538	5.73	1
11031	23478-PeCDF	57117-31-4	0.0826 JBQ	0.00561	5.73	1
11031	123478-HxCDF	70648-26-9	0.0349 JB	0.00962	5.73	1
11031	123678-HxCDF	57117-44-9	0.0430 JBQ	0.00710	5.73	1
11031	123789-HxCDF	72918-21-9	0.0431 JBQ	0.00687	5.73	1
11031	234678-HxCDF	60851-34-5	0.0341 JBQ	0.00584	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0536 JB	0.00767	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0220 JBQ	0.00836	5.73	1
11031	OCDF	39001-02-0	0.109 JB	0.0135	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-050-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SB-4.0-5.0

LLI Sample # SW 6216246
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:30

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5616 SDG#: DX056-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-050-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SB-4.0-5.0

LLI Sample # SW 6216246
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 15:30

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5616 SDG#: DX056-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/09/2011 08:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402B	03/04/2011 19:55	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-122-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5A-SS-0.0-0.5

LLI Sample # SW 6216247
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:50

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5617 SDG#: DX056-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5A-SS-0.0-0.5

LLI Sample # SW 6216247
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:50

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5617 SDG#: DX056-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0186	JB	0.00958	1.09	1
11031	12378-PeCDD	40321-76-4	0.119	JB	0.0163	5.44	1
11031	123478-HxCDD	39227-28-6	0.181	JB	0.0273	5.44	1
11031	123678-HxCDD	57653-85-7	0.605	JB	0.0279	5.44	1
11031	123789-HxCDD	19408-74-3	0.300	JB	0.0263	5.44	1
11031	1234678-HpCDD	35822-46-9	31.3	B	0.0550	5.44	1
11031	OCDD	3268-87-9	422	B	0.0402	10.9	1
11031	2378-TCDF	51207-31-9	0.0640	JBQ	0.0425	1.09	1
11031	12378-PeCDF	57117-41-6	0.209	JB	0.0180	5.44	1
11031	23478-PeCDF	57117-31-4	0.0175	U	0.0175	5.44	1
11031	123478-HxCDF	70648-26-9	0.385	JBQ	0.0255	5.44	1
11031	123678-HxCDF	57117-44-9	0.165	JB	0.0197	5.44	1
11031	123789-HxCDF	72918-21-9	0.0767	JBQ	0.0176	5.44	1
11031	234678-HxCDF	60851-34-5	0.163	JB	0.0165	5.44	1
11031	1234678-HpCDF	67562-39-4	2.73	JB	0.0219	5.44	1
11031	1234789-HpCDF	55673-89-7	0.304	JB	0.0213	5.44	1
11031	OCDF	39001-02-0	7.08	JB	0.0183	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5A-SS-0.0-0.5

LLI Sample # SW 6216247
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:50

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5617 SDG#: DX056-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5A-SS-0.0-0.5

LLI Sample # SW 6216247
LLI Group # 1234762
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/24/2011 09:50

Submitted: 02/25/2011 11:40
Reported: 03/23/2011 18:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5617 SDG#: DX056-17*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/09/2011 09:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11063162402B	03/04/2011 19:55	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234762
Reported: 03/23/11 at 06:12 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11063162402A	Sample number(s): 6216231-6216243								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11063162402B	Sample number(s): 6216244-6216247								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11062001	Sample number(s): 6216231-6216233,6216235,6216237,6216239-6216241,6216243-6216247								
2378-TCDD	0.0193 J	0.00990	1.00	ng/kg	85		67-158		
12378-PeCDD	0.0406 J	0.00910	5.00	ng/kg	85		70-142		
123478-HxCDD	0.0364 J	0.0108	5.00	ng/kg	84		70-164		
123678-HxCDD	0.0400 J	0.0110	5.00	ng/kg	85		76-134		
123789-HxCDD	0.0571 J	0.0100	5.00	ng/kg	83		64-162		
1234678-HpCDD	0.355 J	0.0134	5.00	ng/kg	83		70-140		
OCDD	0.681 J	0.0139	10.0	ng/kg	83		78-144		
2378-TCDF	0.0236 J	0.00870	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0493 J	0.00670	5.00	ng/kg	83		80-134		
23478-PeCDF	0.149 J	0.00670	5.00	ng/kg	84		68-160		
123478-HxCDF	0.169 J	0.0190	5.00	ng/kg	84		72-134		
123678-HxCDF	0.135 J	0.0156	5.00	ng/kg	84		84-130		
123789-HxCDF	0.107 J	0.0163	5.00	ng/kg	83		78-130		
234678-HxCDF	0.271 J	0.0145	5.00	ng/kg	84		70-156		
1234678-HpCDF	0.917 J	0.0104	5.00	ng/kg	83		82-122		
1234789-HpCDF	0.128 J	0.0133	5.00	ng/kg	83		78-138		
OCDF	0.618 J	0.0127	10.0	ng/kg	82		63-170		
Batch number: 11073001	Sample number(s): 6216234,6216236,6216238,6216242								
2378-TCDD	0.00850 U	0.00850	1.00	ng/kg	87		67-158		
12378-PeCDD	0.0159 J	0.00920	5.00	ng/kg	88		70-142		
123478-HxCDD	0.00942 J	0.00930	5.00	ng/kg	86		70-164		
123678-HxCDD	0.0267 J	0.00950	5.00	ng/kg	88		76-134		
123789-HxCDD	0.0153 J	0.00880	5.00	ng/kg	86		64-162		
1234678-HpCDD	0.208 J	0.0138	5.00	ng/kg	86		70-140		
OCDD	0.397 J	0.0113	10.0	ng/kg	87		78-144		
2378-TCDF	0.0133 J	0.00870	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0184 J	0.00490	5.00	ng/kg	84		80-134		
23478-PeCDF	0.0583 J	0.00520	5.00	ng/kg	84		68-160		
123478-HxCDF	0.0547 J	0.0101	5.00	ng/kg	86		72-134		
123678-HxCDF	0.0394 J	0.00790	5.00	ng/kg	85		84-130		
123789-HxCDF	0.0578 J	0.0111	5.00	ng/kg	85		78-130		
234678-HxCDF	0.0651 J	0.00870	5.00	ng/kg	86		70-156		
1234678-HpCDF	0.181 J	0.00630	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.0599 J	0.0120	5.00	ng/kg	87		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234762
Reported: 03/23/11 at 06:12 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.242	J	0.0177	10.0	ng/kg	85		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11063162402A	Sample number(s): 6216231-6216243					BKG: P216211			
28a Moisture Content by 160.3						10.4	10.4	1	20
Batch number: 11063162402B	Sample number(s): 6216244-6216247					BKG: P216213			
28a Moisture Content by 160.3						9.3	9.6	3	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11062001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6216231	74	80	46	60	77	75
6216232	82	81	39	51	78	81
6216233	76	77	30	41	77	81
6216235	72	76	36	48	80	77
6216237	78	83	40	53	82	82
6216239	79	76	33	43	79	80
6216240	78	79	47	61	77	77
6216241	78	80	39	53	77	76
6216243	73	75	54	64	73	70
6216244	77	73	33	45	75	74
6216245	75	80	69	76	77	79
6216246	72	71	46	60	71	68
6216247	83	82	54	66	81	81
Blank	66	68	56	65	69	69
OPR	68	72	51	65	71	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6216231	64	68	60	88	87	74
6216232	54	74	63	89	88	70
6216233	42	78	76	87	84	61
6216235	44	71	57	84	76	63
6216237	56	78	70	87	89	72
6216239	44	76	65	89	86	64
6216240	62	70	61	90	85	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234762
Reported: 03/23/11 at 06:12 PM

Surrogate Quality Control

6216241	59	68	57	88	89	72
6216243	68	66	58	84	81	76
6216244	49	64	49	89	84	64
6216245	83	73	67	88	85	81
6216246	63	64	58	87	78	70
6216247	67	77	67	91	88	82
Blank	75	66	65	79	73	72
OPR	74	62	58	86	76	74
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6216231	78	80	81	82	74	82
6216232	76	82	82	81	80	81
6216233	71	78	81	86	76	79
6216235	69	75	70	59	75	78
6216237	77	84	84	80	78	86
6216239	71	82	80	76	77	80
6216240	77	81	80	76	77	81
6216241	79	83	83	76	75	83
6216243	77	77	76	72	71	76
6216244	71	81	79	71	72	80
6216245	80	82	82	76	73	82
6216246	74	76	77	72	68	75
6216247	83	85	83	80	81	82
Blank	73	75	79	78	63	72
OPR	75	76	77	76	66	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11073001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6216234	83	77	69	72	77	85
6216236	82	77	71	72	76	82
6216238	81	76	69	73	76	83
6216242	79	76	53	61	76	75
Blank	67	58	54	67	58	51
OPR	79	65	60	75	67	57
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6216234	75	79	72	93	88	81
6216236	75	73	66	93	86	82
6216238	81	70	63	93	83	81
6216242	63	71	65	92	85	74
Blank	81	47	43	90	70	72
OPR	87	52	48	92	79	83
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234762
Reported: 03/23/11 at 06:12 PM

Surrogate Quality Control

6216234	83	85	83	82	76	77
6216236	81	83	79	73	76	76
6216238	82	83	79	73	75	78
6216242	78	81	77	71	76	75
Blank	74	73	72	67	57	66
OPR	81	81	79	74	66	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1234762 sample# 6216231-47

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16-oz jar collected from the same interval from which Encores were collected

Samplers*
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SL-007-SA5A-SS-0.0-0.5	2.24.2011	0845	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	Amended COC
SL-007-SA5A-SS-0.0-0.5	2.24.2011	0845	SOIL	NONE	1-6 inch sleeve			X	X							
SL-008-SA5A-SS-0.0-0.5	2.24.2011	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-008-SA5A-SS-0.0-0.5	2.24.2011	0905	SOIL	NONE	1-6 inch sleeve			X	X							
SL-110-SA5A-SS-0.0-0.5	2.24.2011	1308	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-110-SA5A-SS-0.0-0.5	2.24.2011	1308	SOIL	NONE	1-6 inch sleeve			X	X							
SL-119-SA5A-SS-0.0-0.5	2.24.2011	1035	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-119-SA5A-SS-0.0-0.5	2.24.2011	1035	SOIL	NONE	1-6 inch sleeve			X	X							
SL-120-SA5A-SS-0.0-0.5	2.24.2011	1100	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-120-SA5A-SS-0.0-0.5	2.24.2011	1100	SOIL	NONE	1-6 inch sleeve			X	X							
SL-121-SA5A-SS-0.0-0.5	2.24.2011	1005	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-121-SA5A-SS-0.0-0.5	2.24.2011	1005	SOIL	NONE	1-6 inch sleeve			X	X							
SL-136-SA5A-SS-0.0-0.5	2.24.2011	1425	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-136-SA5A-SS-0.0-0.5	2.24.2011	1425	SOIL	NONE	1-6 inch sleeve			X	X							
SL-137-SA5A-SS-0.0-0.5	2.24.2011	1528	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-137-SA5A-SS-0.0-0.5	2.24.2011	1528	SOIL	NONE	1-6 inch sleeve			X	X							
SL-138-SA5A-SS-0.0-0.5	2.24.2011	1500	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-138-SA5A-SS-0.0-0.5	2.24.2011	1500	SOIL	NONE	1-6 inch sleeve			X	X							
SL-143-SA5A-SS-0.0-0.5	2.24.2011	1338	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-143-SA5A-SS-0.0-0.5	2.24.2011	1338	SOIL	NONE	1-6 inch sleeve			X	X							
SL-233-SA5A-SS-0.0-0.5	2.24.2011	0922	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-233-SA5A-SS-0.0-0.5	2.24.2011	0922	SOIL	NONE	1-6 inch sleeve			X	X							
SL-250-SA5A-SS-0.0-0.5	2.24.2011	1020	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-250-SA5A-SS-0.0-0.5	2.24.2011	1020	SOIL	NONE	1-6 inch sleeve			X	X							
SL-251-SA5A-SS-0.0-0.5	2.24.2011	1405	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-251-SA5A-SS-0.0-0.5	2.24.2011	1405	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		Laboratory:
	02/24/2011 / 17:00		2/25/11 1140	Lancaster Laboratories, inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**		
		8695 1432 0130; 8695 1432 0141		

Additional Sample Received:

SL-122-SA5A-SS-0.0-0.5 2/24/11 @9:50 -entered for all primary and SS analyses except for ~~Perch~~ Perchlorate Confirmation NLM 3/2/11

acct#13013 Qp# 1234762 sample# 6216231-47

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16-oz jar collected from the same interval from which Encores were collected

Samplers' Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SL-007-SA5A-SS-0.0-0.5	2.24.2011	0845	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-007-SA5A-SS-0.0-0.5	2.24.2011	0845	SOIL	NONE	1-6 inch sleeve			X	X							
SL-008-SA5A-SS-0.0-0.5	2.24.2011	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-008-SA5A-SS-0.0-0.5	2.24.2011	0905	SOIL	NONE	1-6 inch sleeve			X	X							
SL-110-SA5A-SS-0.0-0.5	2.24.2011	1308	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-110-SA5A-SS-0.0-0.5	2.24.2011	1308	SOIL	NONE	1-6 inch sleeve			X	X							
SL-119-SA5A-SS-0.0-0.5	2.24.2011	1035	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-119-SA5A-SS-0.0-0.5	2.24.2011	1035	SOIL	NONE	1-6 inch sleeve			X	X							
SL-120-SA5A-SS-0.0-0.5	2.24.2011	1100	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-120-SA5A-SS-0.0-0.5	2.24.2011	1100	SOIL	NONE	1-6 inch sleeve			X	X							
SL-121-SA5A-SS-0.0-0.5	2.24.2011	1005	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-121-SA5A-SS-0.0-0.5	2.24.2011	1005	SOIL	NONE	1-6 inch sleeve			X	X							
SL-136-SA5A-SS-0.0-0.5	2.24.2011	1425	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-136-SA5A-SS-0.0-0.5	2.24.2011	1425	SOIL	NONE	1-6 inch sleeve			X	X							
SL-137-SA5A-SS-0.0-0.5	2.24.2011	1528	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-137-SA5A-SS-0.0-0.5	2.24.2011	1528	SOIL	NONE	1-6 inch sleeve			X	X							
SL-138-SA5A-SS-0.0-0.5	2.24.2011	1500	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-138-SA5A-SS-0.0-0.5	2.24.2011	1500	SOIL	NONE	1-6 inch sleeve			X	X							
SL-143-SA5A-SS-0.0-0.5	2.24.2011	1338	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-143-SA5A-SS-0.0-0.5	2.24.2011	1338	SOIL	NONE	1-6 inch sleeve			X	X							
SL-233-SA5A-SS-0.0-0.5	2.24.2011	0922	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-233-SA5A-SS-0.0-0.5	2.24.2011	0922	SOIL	NONE	1-6 inch sleeve			X	X							
SL-250-SA5A-SS-0.0-0.5	2.24.2011	1020	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-250-SA5A-SS-0.0-0.5	2.24.2011	1020	SOIL	NONE	1-6 inch sleeve			X	X							
SL-251-SA5A-SS-0.0-0.5	2.24.2011	1405	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-251-SA5A-SS-0.0-0.5	2.24.2011	1405	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	02/24/2011 / 17:00	2/25/11 1140	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1432 0130; 8695 1432 0141	

acct# 13013 Gp# 1234762 Samp6# 6216231-47

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	Other Instructions and Notes
SL-021-SA5A-SB-3.0-4.0	2.24.11	0948	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-021-SA5A-SB-3.5	2.24.11	0945	SOIL	NONE	4-Encores									X	X		
SL-022-SA5A-SB-4.0-5.0	2.24.11	1123	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-022-SA5A-SB-4.5	2.24.11	1120	SOIL	NONE	4-Encores									X	X		
SL-050-SA5A-SB-4.0-5.0	2.24.11	1530	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-050-SA5A-SB-4.5	2.24.11	1527	SOIL	NONE	4-Encores									X	X		
TB-022411	2.24.11	1600	WATER	HCl	3-40 mL VOA VIALS									X	X		TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 02/24/2011 / 17:00

Received for Laboratory by: (*Signature*) — 2/25/11 1140

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8695 1432 0130; 8695 1432 0141

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 23, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/26/2011
Group Number: 1234858
SDG: DE092
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-126-SA5A-SS-0.0-0.5 Soil	6216870
SL-127-SA5A-SS-0.0-0.5 Soil	6216871
SL-132-SA5A-SS-0.0-0.5 Soil	6216873
SL-133-SA5A-SS-0.0-0.5 Soil	6216874
SL-144-SA5A-SS-0.0-0.5 Soil	6216879
SL-146-SA5A-SS-0.0-0.5 Soil	6216880
SL-171-SA5A-SS-0.0-0.5 Soil	6216881
SL-172-SA5A-SS-0.0-0.5 Soil	6216882
SL-173-SA5A-SS-0.0-0.5 Soil	6216883
SL-174-SA5A-SS-0.0-0.5 Soil	6216884
SL-053-SA5A-SB-3.0-4.0 Soil	6216885
SL-054-SA5A-SB-4.0-5.0 Soil	6216886
SL-054-SA5A-SB-9.0-10.0 Soil	6216887
SL-055-SA5A-SB-2.0-3.0 Soil	6216888
SL-056-SA5A-SB-4.0-5.0 Soil	6216889
SL-056-SA5A-SB-7.0-8.0 Soil	6216890
TB-022511 Water	6216891

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

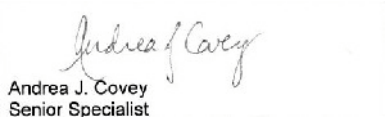
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Andrea J. Covey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-126-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SS-0.0-0.5

LLI Sample # SW 6216870
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 08:50

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE092-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	22	J	20	200	1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	46	J	20	400	1
04688	Fluoranthene	206-44-0	20	J	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SS-0.0-0.5

LLI Sample # SW 6216870
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 08:50

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE092-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	20	U	20	200	1
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0	1
10138	Acenaphthylene	208-96-8	0.60	J	0.40	2.0	1
10138	Anthracene	120-12-7	1.4	J	0.40	2.0	1
10138	Benzo(a)anthracene	56-55-3	3.4		0.80	2.0	1
10138	Benzo(a)pyrene	50-32-8	4.9		0.80	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	16		0.80	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	2.3		0.80	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	3.3		0.80	2.0	1
10138	Chrysene	218-01-9	6.9		0.40	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0	1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22	1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22	1
10138	Fluorene	86-73-7	1.4	J	0.80	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.8	J	0.80	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0	1
10138	Naphthalene	91-20-3	1.6	J	0.80	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0	1
10138	Phenanthrene	85-01-8	5.0		0.80	2.0	1
10138	Pyrene	129-00-0	7.9		0.80	2.0	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.3	U	5.3	11	1
10401	2,4-DB	94-82-6	2.8	U	2.8	2.8	1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4	1
10401	Dinoseb	88-85-7	0.96	U	0.96	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.96	U	0.96	2.0	1
10401	MCPA	94-74-6	1,300		91	300	1
10401	MCPP (Mecoprop)	93-65-2	90	U	90	300	1
10401	2,4,5-T	93-76-5	0.098	U	0.098	0.20	1
10401	2,4,5-TP	93-72-1	0.10	U	0.10	0.20	1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SS-0.0-0.5

LLI Sample # SW 6216870
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 08:50

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE092-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.079	U	0.079	0.20	1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20	1
01363	Beta BHC	319-85-7	0.072	U	0.072	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20	1
01363	Chlordane	57-74-9	0.96	U	0.96	4.1	1
01363	p,p-DDD	72-54-8	0.079	U	0.079	0.41	1
01363	p,p-DDE	72-55-9	0.079	U	0.079	0.41	1
01363	p,p-DDT	50-29-3	0.19	U	0.19	0.41	1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20	1
01363	Dieldrin	60-57-1	0.079	U	0.079	0.41	1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20	1
01363	Endosulfan II	33213-65-9	0.079	U	0.079	0.41	1
01363	Endosulfan Sulfate	1031-07-8	0.079	U	0.079	0.41	1
01363	Endrin	72-20-8	0.079	U	0.079	0.41	1
01363	Endrin Aldehyde	7421-93-4	0.079	U	0.079	0.41	1
01363	Endrin Ketone	53494-70-5	0.079	U	0.079	0.41	1
01363	Heptachlor	76-44-8	0.072	U	0.072	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.20	1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0	1
01363	Mirex	2385-85-5	0.079	U	0.079	0.41	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0	1
10225	Aroclor 5460	11126-42-4	7.3		1.2	4.0	1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0	1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0	1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0	1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0	1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0	1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0	1
10225	PCB-1260	11096-82-5	4.3		0.47	2.0	1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0	1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.81	23.1	1
07914	Boron	7440-42-8	6.41		1.03	5.77	1
01650	Calcium	7440-70-2	3,360		7.08	23.1	1
01654	Iron	7439-89-6	18,200		5.44	23.1	1
01656	Lithium	7439-93-2	19.8		0.25	2.3	1
01657	Magnesium	7439-95-4	4,020		2.93	11.5	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-126-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SS-0.0-0.5

LLI Sample # SW 6216870
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 08:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE092-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	282		0.0900	0.577	1
10145	Phosphorus	7723-14-0	611		0.646	11.5	1
01662	Potassium	7440-09-7	3,850		20.8	57.7	1
01667	Sodium	7440-23-5	62.4	J	43.1	115	1
07968	Strontium	7440-24-6	19.8		0.0716	0.577	1
06969	Tin	7440-31-5	2.86	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,070		0.439	1.15	1
10146	Zirconium	7440-67-7	5.35	J	0.970	5.77	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.227	J	0.0713	0.238	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.79		0.0951	0.475	2
06126	Barium	7440-39-3	118		0.128	0.475	2
06127	Beryllium	7440-41-7	0.653		0.0190	0.119	2
06128	Cadmium	7440-43-9	0.334		0.0475	0.119	2
06131	Chromium	7440-47-3	22.2		0.143	0.475	2
06132	Cobalt	7440-48-4	6.37		0.0238	0.119	2
06133	Copper	7440-50-8	11.9		0.0784	0.475	2
06135	Lead	7439-92-1	18.1		0.0124	0.238	2
06138	Molybdenum	7439-98-7	1.08		0.0594	0.119	2
06139	Nickel	7440-02-0	13.4		0.119	0.475	2
06141	Selenium	7782-49-2	0.142	J	0.0475	0.475	2
06142	Silver	7440-22-4	0.0447	J	0.0143	0.119	2
06145	Thallium	7440-28-0	0.300		0.0357	0.119	2
06148	Vanadium	7440-62-2	40.8		0.0261	0.119	2
06149	Zinc	7440-66-6	125		0.666	3.57	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0053	J	0.0032	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.96	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.89	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	442		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-126-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SS-0.0-0.5

LLI Sample # SW 6216870
LLI Group # 1234858
Account # 13013

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E9201 SDG#: DE092-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.19	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	16.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 12:45	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/16/2011 11:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690014A	03/12/2011 06:13	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600026A	03/13/2011 16:52	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/11/2011 19:33	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600026A	03/01/2011 22:00	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690014A	03/11/2011 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 18:50	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 12:18	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 12:18	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 18:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 12:18	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 12:18	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 12:18	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 12:18	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 18:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 12:18	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 12:18	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 12:18	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-126-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SS-0.0-0.5

LLI Sample # SW 6216870
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 08:50

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE092-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 12:18	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 12:18	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 12:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 12:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 12:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 12:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 12:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 12:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 12:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 12:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 12:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 12:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 12:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 12:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 12:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 12:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 12:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 12:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201A	03/14/2011 23:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201A	03/11/2011 16:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11062243201A	03/04/2011 16:09	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201A	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201A	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101B	03/01/2011 11:20	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039401B	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SS-0.0-0.5

LLI Sample # SW 6216871
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:05

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE092-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	36	J	19	390	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SS-0.0-0.5

LLI Sample # SW 6216871
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:05

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE092-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.40	J	0.39	1.9	1
10138	Anthracene	120-12-7	0.88	J	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	6.7		0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	8.7	J	7.0	21	1
10138	Chrysene	218-01-9	3.4		0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	15		0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	J	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	24		7.0	21	1
10138	Phenanthrene	85-01-8	6.1		0.77	1.9	1
10138	Pyrene	129-00-0	6.5		0.77	1.9	1

The following compounds were detected in the method blank at the respective concentrations of:
butylbenzylphthalate 6.25 ug/kg
di-n-octylphthalate 12 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2	1
10401	Dalapon	75-99-0	5.1	U	5.1	10	1
10401	2,4-DB	94-82-6	2.6	U	2.6	2.6	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	2.0	J	0.93	2.0	1
10401	MCPA	94-74-6	88	U	88	290	1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290	1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20	1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20	1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SS-0.0-0.5

LLI Sample # SW 6216871
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:05

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE092-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Despite numerous cleanup methods, our usual reporting limits were not attained.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	1.2	U	1.2	3.9	1
01363	p,p-DDD	72-54-8	0.12	U	0.12	0.39	1
01363	p,p-DDE	72-55-9	0.093	U	0.093	0.39	1
01363	p,p-DDT	50-29-3	0.46	U	0.46	0.46	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19	1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39	1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19	1
01363	Endosulfan II	33213-65-9	0.11	U	0.11	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39	1
01363	Endrin	72-20-8	0.076	U	0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.39	1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39	1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery for various compounds are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	3.1	J	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	2.1		0.38	2.0	1
10225	PCB-1260	11096-82-5	1.7	J	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-127-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SS-0.0-0.5

LLI Sample # SW 6216871
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:05

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE092-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		5.72	22.7	1
07914	Boron	7440-42-8	4.60	J	1.01	5.69	1
01650	Calcium	7440-70-2	2,620		6.97	22.7	1
01654	Iron	7439-89-6	19,500		5.36	22.7	1
01656	Lithium	7439-93-2	22.1		0.25	2.3	1
01657	Magnesium	7439-95-4	4,500		2.89	11.4	1
06958	Manganese	7439-96-5	319		0.0887	0.569	1
10145	Phosphorus	7723-14-0	542		0.637	11.4	1
01662	Potassium	7440-09-7	4,060		20.5	56.9	1
01667	Sodium	7440-23-5	60.5	J	42.4	114	1
07968	Strontium	7440-24-6	17.7		0.0705	0.569	1
06969	Tin	7440-31-5	2.92	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,140		0.432	1.14	1
10146	Zirconium	7440-67-7	3.29	J	0.955	5.69	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.191	J	0.0689	0.230	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.02		0.0919	0.459	2
06126	Barium	7440-39-3	147		0.124	0.459	2
06127	Beryllium	7440-41-7	0.811		0.0184	0.115	2
06128	Cadmium	7440-43-9	0.301		0.0459	0.115	2
06131	Chromium	7440-47-3	25.5		0.138	0.459	2
06132	Cobalt	7440-48-4	7.12		0.0230	0.115	2
06133	Copper	7440-50-8	12.6		0.0758	0.459	2
06135	Lead	7439-92-1	11.9		0.0119	0.230	2
06138	Molybdenum	7439-98-7	1.00		0.0574	0.115	2
06139	Nickel	7440-02-0	15.2		0.115	0.459	2
06141	Selenium	7782-49-2	0.179	J	0.0459	0.459	2
06142	Silver	7440-22-4	0.0455	J	0.0138	0.115	2
06145	Thallium	7440-28-0	0.346		0.0345	0.115	2
06148	Vanadium	7440-62-2	48.6		0.0253	0.115	2
06149	Zinc	7440-66-6	103		0.643	3.45	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-127-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SS-0.0-0.5

LLI Sample # SW 6216871
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:05

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE092-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	324		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.67		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.8		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 13:11	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/09/2011 23:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690014A	03/12/2011 08:31	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110600022A	03/02/2011 20:46	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600026A	03/13/2011 17:35	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/11/2011 20:44	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600026A	03/01/2011 22:00	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690014A	03/11/2011 03:00	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SS-0.0-0.5

LLI Sample # SW 6216871
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:05

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE092-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110600022A	03/02/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 19:11	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 12:39	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 12:39	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 19:11	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 12:39	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 12:39	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 12:39	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 12:39	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 19:11	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 12:39	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 12:39	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 12:39	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 12:39	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 12:39	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 12:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 12:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 12:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 12:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 12:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 12:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 12:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 12:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 12:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 12:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 12:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 12:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 12:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 12:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 12:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 12:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201A	03/15/2011 00:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201A	03/11/2011 18:10	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11062243201A	03/04/2011 16:15	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201A	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201A	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101B	03/01/2011 11:20	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039401B	03/01/2011 11:20	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-127-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SS-0.0-0.5

LLI Sample # SW 6216871
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:05

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE092-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SS-0.0-0.5

LLI Sample # SW 6216873
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:20

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE092-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SS-0.0-0.5

LLI Sample # SW 6216873
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:20

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE092-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.66	J	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.94	J	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.9		0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	7.0		0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.9	J	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.99	J	0.75	1.9	1
10138	Di-n-butylphthalate	84-74-2	16	J	6.8	20	1
10138	Chrysene	218-01-9	2.6		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	4.7		0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	J	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.76	J	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	20	J	6.8	20	1
10138	Phenanthrene	85-01-8	1.4	J	0.75	1.9	1
10138	Pyrene	129-00-0	2.4		0.75	1.9	1

The following compounds were detected in the method blank at the respective concentrations of:
Diethylphthalate 7.4 ug/kg
di-n-butylphthalate 13 ug/kg
di-n-octylphthalate 12 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	1.8	U	1.8	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	86	U	86	280	1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1

Due to interfering peaks on the chromatogram, the values reported represent

*=This limit was used in the evaluation of the final result

Sample Description: **SL-132-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SS-0.0-0.5

LLI Sample # SW 6216873
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:20

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE092-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	2.1	U	2.1	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.41		0.074	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.082	J	0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.17	U	0.17	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.12	J	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery for various compounds are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Due to interfering peaks on the chromatogram, the values reported for heptachlor and technical chlordane represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-132-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SS-0.0-0.5

LLI Sample # SW 6216873
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:20

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE092-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.58	22.2	1
07914	Boron	7440-42-8	4.50	J	0.987	5.55	1
01650	Calcium	7440-70-2	2,620		6.80	22.2	1
01654	Iron	7439-89-6	20,200		5.22	22.2	1
01656	Lithium	7439-93-2	21.4		0.24	2.2	1
01657	Magnesium	7439-95-4	4,480		2.82	11.1	1
06958	Manganese	7439-96-5	274		0.0865	0.555	1
10145	Phosphorus	7723-14-0	352		0.621	11.1	1
01662	Potassium	7440-09-7	2,860		20.0	55.5	1
01667	Sodium	7440-23-5	61.4	J	41.4	111	1
07968	Strontium	7440-24-6	17.3		0.0688	0.555	1
06969	Tin	7440-31-5	2.65	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,130		0.421	1.11	1
10146	Zirconium	7440-67-7	3.64	J	0.932	5.55	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.193	J	0.0679	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.75		0.0905	0.452	2
06126	Barium	7440-39-3	105		0.122	0.452	2
06127	Beryllium	7440-41-7	0.733		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.217		0.0452	0.113	2
06131	Chromium	7440-47-3	21.9		0.136	0.452	2
06132	Cobalt	7440-48-4	6.24		0.0226	0.113	2
06133	Copper	7440-50-8	9.58		0.0747	0.452	2
06135	Lead	7439-92-1	17.8		0.0118	0.226	2
06138	Molybdenum	7439-98-7	0.760		0.0566	0.113	2
06139	Nickel	7440-02-0	13.1		0.113	0.452	2
06141	Selenium	7782-49-2	0.131	J	0.0452	0.452	2
06142	Silver	7440-22-4	0.0322	J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.329		0.0339	0.113	2
06148	Vanadium	7440-62-2	42.4		0.0249	0.113	2
06149	Zinc	7440-66-6	83.3		0.633	3.39	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.204		0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-132-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SS-0.0-0.5

LLI Sample # SW 6216873
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:20

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE092-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	323	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.08	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 13:35	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/16/2011 10:40	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690014A	03/12/2011 08:59	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600026A	03/13/2011 17:49	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/11/2011 21:07	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600026A	03/01/2011 22:00	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690014A	03/11/2011 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 19:15	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 12:49	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 12:49	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 19:15	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 12:49	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 12:49	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 12:49	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-132-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SS-0.0-0.5

LLI Sample # SW 6216873
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:20

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE092-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 12:49	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 19:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 12:49	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 12:49	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 12:49	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 12:49	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 12:49	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 12:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 12:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 12:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 12:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 12:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 12:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 12:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 12:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 12:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 12:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 12:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 12:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 12:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 12:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 12:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 12:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201A	03/15/2011 01:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201A	03/11/2011 18:34	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11062243201A	03/04/2011 16:34	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201A	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201A	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182101B	03/01/2011 11:20	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039401B	03/01/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SS-0.0-0.5

LLI Sample # SW 6216874
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:00

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE092-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SS-0.0-0.5

LLI Sample # SW 6216874
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:00

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE092-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	2.7		0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	9.9		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	2.2		0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	3.1		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	9.8		0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.94	J	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	1.5	J	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	15	J	6.8	20	1
10138	Phenanthrene	85-01-8	1.3	J	0.76	1.9	1
10138	Pyrene	129-00-0	2.7		0.76	1.9	1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-octylphthalate 12 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	1.4	U	1.4	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9	1
10401	MCPA	94-74-6	86	U	86	280	1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.33		0.085	0.19	1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-133-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SS-0.0-0.5

LLI Sample # SW 6216874
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:00

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE092-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.50		0.074	0.38	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS recovery for various compounds are outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.8	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		5.54	22.0	1
07914	Boron	7440-42-8	5.01	J	0.980	5.50	1
01650	Calcium	7440-70-2	3,390		6.75	22.0	1
01654	Iron	7439-89-6	21,200		5.18	22.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-133-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SS-0.0-0.5

LLI Sample # SW 6216874
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:00

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE092-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	20.6		0.24	2.2	1
01657	Magnesium	7439-95-4	4,470		2.80	11.0	1
06958	Manganese	7439-96-5	323		0.0859	0.550	1
10145	Phosphorus	7723-14-0	326		0.616	11.0	1
01662	Potassium	7440-09-7	2,580		19.8	55.0	1
01667	Sodium	7440-23-5	71.5	J	41.1	110	1
07968	Strontium	7440-24-6	24.2		0.0682	0.550	1
06969	Tin	7440-31-5	2.76	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,150		0.418	1.10	1
10146	Zirconium	7440-67-7	4.90	J	0.925	5.50	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.208	J	0.0667	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.98		0.0889	0.445	2
06126	Barium	7440-39-3	113		0.120	0.445	2
06127	Beryllium	7440-41-7	0.803		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.220		0.0445	0.111	2
06131	Chromium	7440-47-3	24.0		0.133	0.445	2
06132	Cobalt	7440-48-4	6.79		0.0222	0.111	2
06133	Copper	7440-50-8	10.7		0.0734	0.445	2
06135	Lead	7439-92-1	13.5		0.0116	0.222	2
06138	Molybdenum	7439-98-7	0.726		0.0556	0.111	2
06139	Nickel	7440-02-0	14.3		0.111	0.445	2
06141	Selenium	7782-49-2	0.142	J	0.0445	0.445	2
06142	Silver	7440-22-4	0.0319	J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.351		0.0333	0.111	2
06148	Vanadium	7440-62-2	46.2		0.0245	0.111	2
06149	Zinc	7440-66-6	82.5		0.622	3.33	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0847	J	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	288		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-133-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SS-0.0-0.5

LLI Sample # SW 6216874
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:00

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE092-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.96	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 14:01	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/09/2011 23:46	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690014A	03/12/2011 09:26	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600026A	03/13/2011 18:03	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/11/2011 21:30	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600026A	03/01/2011 22:00	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690014A	03/11/2011 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 19:25	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 12:53	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 12:53	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 19:25	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 12:53	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 12:53	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 12:53	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-133-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SS-0.0-0.5

LLI Sample # SW 6216874
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:00

Submitted: 02/26/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE092-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 12:53	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 19:25	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 12:53	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 12:53	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 12:53	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 12:53	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 12:53	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 12:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 12:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 12:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 12:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 12:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 12:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 12:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 12:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 12:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 12:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 12:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 12:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 12:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 12:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 12:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 12:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201A	03/15/2011 01:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201A	03/11/2011 18:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11062243201A	03/04/2011 16:46	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201A	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201A	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182102A	03/01/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039402A	03/01/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-144-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SS-0.0-0.5

LLI Sample # SW 6216879
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:05

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9207 SDG#: DE092-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-144-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SS-0.0-0.5

LLI Sample # SW 6216879
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:05

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9207 SDG#: DE092-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.47	J	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	6.4		0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	7.7		0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	15		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	3.0		0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	4.7		0.76	1.9	1
10138	Di-n-butylphthalate	84-74-2	18	J	6.8	21	1
10138	Chrysene	218-01-9	7.8		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.97	J	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21	1
10138	Fluoranthene	206-44-0	16		0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.0		0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	1.5	J	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	15	J	6.8	21	1
10138	Phenanthrene	85-01-8	2.6		0.76	1.9	1
10138	Pyrene	129-00-0	8.1		0.76	1.9	1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 13 ug/kg
di-n-octylphthalate 12 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	2.1	U	2.1	2.1	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9	1
10401	MCPA	94-74-6	87	U	87	290	1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290	1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19	1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19	1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-144-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SS-0.0-0.5

LLI Sample # SW 6216879
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:05

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9207 SDG#: DE092-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9	1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39	1
01363	p,p-DDE	72-55-9	0.075	U	0.075	0.39	1
01363	p,p-DDT	50-29-3	0.075	U	0.075	0.39	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39	1
01363	Endrin	72-20-8	0.075	U	0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39	1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39	1
01363	Heptachlor	76-44-8	0.43		0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery for various compounds are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts, except heptachlor was non detect in the reextraction.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	18		1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,200		5.68	22.6	1
07914	Boron	7440-42-8	4.69	J	1.00	5.64	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-144-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SS-0.0-0.5

LLI Sample # SW 6216879
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:05

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9207 SDG#: DE092-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	1,870		6.92	22.6	1
01654	Iron	7439-89-6	19,800		5.32	22.6	1
01656	Lithium	7439-93-2	23.4		0.25	2.3	1
01657	Magnesium	7439-95-4	3,990		2.87	11.3	1
06958	Manganese	7439-96-5	340		0.0881	0.564	1
10145	Phosphorus	7723-14-0	264		0.632	11.3	1
01662	Potassium	7440-09-7	2,620		20.3	56.4	1
01667	Sodium	7440-23-5	72.5	J	42.1	113	1
07968	Strontium	7440-24-6	19.2		0.0700	0.564	1
06969	Tin	7440-31-5	2.88	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,210		0.429	1.13	1
10146	Zirconium	7440-67-7	4.64	J	0.948	5.64	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.178	J	0.0671	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.57		0.0894	0.447	2
06126	Barium	7440-39-3	119		0.121	0.447	2
06127	Beryllium	7440-41-7	0.867		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.497		0.0447	0.112	2
06131	Chromium	7440-47-3	26.0		0.134	0.447	2
06132	Cobalt	7440-48-4	6.75		0.0224	0.112	2
06133	Copper	7440-50-8	12.3		0.0738	0.447	2
06135	Lead	7439-92-1	14.0		0.0116	0.224	2
06138	Molybdenum	7439-98-7	0.919		0.0559	0.112	2
06139	Nickel	7440-02-0	14.3		0.112	0.447	2
06141	Selenium	7782-49-2	0.165	J	0.0447	0.447	2
06142	Silver	7440-22-4	0.171		0.0134	0.112	2
06145	Thallium	7440-28-0	0.336		0.0335	0.112	2
06148	Vanadium	7440-62-2	43.7		0.0246	0.112	2
06149	Zinc	7440-66-6	95.3		0.626	3.35	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0374	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-144-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SS-0.0-0.5

LLI Sample # SW 6216879
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:05

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9207 SDG#: DE092-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	359	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.23	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 14:26	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/10/2011 00:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690014A	03/12/2011 09:54	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600026A	03/13/2011 18:32	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/11/2011 21:53	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600026A	03/01/2011 22:00	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690014A	03/11/2011 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 19:29	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 12:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 12:56	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 19:29	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 12:56	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 12:56	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-144-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SS-0.0-0.5

LLI Sample # SW 6216879
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:05

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9207 SDG#: DE092-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 12:56	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 12:56	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 19:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 12:56	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 12:56	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 12:56	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 12:56	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 12:56	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 12:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 12:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 12:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 12:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 12:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 12:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 12:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 12:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 12:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 12:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 12:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 12:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 12:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 12:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 12:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 12:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201A	03/15/2011 01:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201A	03/11/2011 19:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11062243201A	03/04/2011 16:59	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201A	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201A	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182102A	03/01/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039402A	03/01/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-146-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SS-0.0-0.5

LLI Sample # SW 6216880
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:45

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9208 SDG#: DE092-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	46	J	19	190	1
04688	Benzo(a)pyrene	50-32-8	34	J	19	190	1
04688	Benzo(b)fluoranthene	205-99-2	55	J	19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	28	J	19	190	1
04688	Benzo(k)fluoranthene	207-08-9	26	J	19	190	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Chrysene	218-01-9	54	J	19	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	380	1
04688	Fluoranthene	206-44-0	100	J	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	27	J	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-146-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SS-0.0-0.5

LLI Sample # SW 6216880
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:45

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9208 SDG#: DE092-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenanthrene	85-01-8	70	J	19	190	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	Pyrene	129-00-0	79	J	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	1.3	J	0.38	1.9	1
10138	Anthracene	120-12-7	4.8		0.38	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	56		6.9	21	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	1.1	J	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	100		6.9	21	1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 11 ug/kg di-n-octylphthalate 12 ug/kg These blank values were not subtracted from the analytical results.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	9.7	U	9.7	9.7	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	1.9	1
10401	MCPA	94-74-6	180	J	87	290	1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290	1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19	1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19	1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-146-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SS-0.0-0.5

LLI Sample # SW 6216880
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:45

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9208 SDG#: DE092-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9	1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39	1
01363	p,p-DDE	72-55-9	0.076	U	0.076	0.39	1
01363	p,p-DDT	50-29-3	0.076	U	0.076	0.39	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39	1
01363	Endrin	72-20-8	0.076	U	0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39	1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39	1
01363	Heptachlor	76-44-8	0.14	J	0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery for various compounds are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts, except p,p DDT was detected at 2.5 ug/kg in the reextraction.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	3.3	J	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	2.3		0.38	1.9	1
10225	PCB-1260	11096-82-5	1.7	J	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		5.60	22.3	1
07914	Boron	7440-42-8	3.68	J	0.991	5.57	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-146-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SS-0.0-0.5

LLI Sample # SW 6216880
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:45

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9208 SDG#: DE092-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,250		6.83	22.3	1
01654	Iron	7439-89-6	19,100		5.24	22.3	1
01656	Lithium	7439-93-2	21.0		0.24	2.2	1
01657	Magnesium	7439-95-4	4,120		2.83	11.1	1
06958	Manganese	7439-96-5	284		0.0868	0.557	1
10145	Phosphorus	7723-14-0	303		0.623	11.1	1
01662	Potassium	7440-09-7	2,480		20.0	55.7	1
01667	Sodium	7440-23-5	60.7	J	41.5	111	1
07968	Strontium	7440-24-6	15.8		0.0690	0.557	1
06969	Tin	7440-31-5	2.81	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,120		0.423	1.11	1
10146	Zirconium	7440-67-7	3.99	J	0.935	5.57	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.228	J	0.0688	0.229	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.38		0.0917	0.459	2
06126	Barium	7440-39-3	124		0.124	0.459	2
06127	Beryllium	7440-41-7	0.903		0.0183	0.115	2
06128	Cadmium	7440-43-9	0.231		0.0459	0.115	2
06131	Chromium	7440-47-3	24.1		0.138	0.459	2
06132	Cobalt	7440-48-4	6.87		0.0229	0.115	2
06133	Copper	7440-50-8	11.9		0.0757	0.459	2
06135	Lead	7439-92-1	15.1		0.0119	0.229	2
06138	Molybdenum	7439-98-7	1.09		0.0573	0.115	2
06139	Nickel	7440-02-0	15.3		0.115	0.459	2
06141	Selenium	7782-49-2	0.159	J	0.0459	0.459	2
06142	Silver	7440-22-4	0.140		0.0138	0.115	2
06145	Thallium	7440-28-0	0.348		0.0344	0.115	2
06148	Vanadium	7440-62-2	47.8		0.0252	0.115	2
06149	Zinc	7440-66-6	188		0.642	3.44	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0134	J	0.0033	0.115	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.92	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-146-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SS-0.0-0.5

LLI Sample # SW 6216880
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:45

Submitted: 02/26/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9208 SDG#: DE092-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	390	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.20	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 14:51	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/10/2011 00:48	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690014A	03/12/2011 10:21	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600026A	03/13/2011 18:46	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 05:19	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600026A	03/01/2011 22:00	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690014A	03/11/2011 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 19:33	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 13:00	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 13:00	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 19:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 13:00	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 13:00	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-146-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SS-0.0-0.5

LLI Sample # SW 6216880
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9208 SDG#: DE092-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 13:00	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 13:00	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 19:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 13:00	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 13:00	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 13:00	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 13:00	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 13:00	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 12:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 12:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 12:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 12:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/12/2011 04:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 12:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 12:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 12:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 12:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 12:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 12:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 12:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 12:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 12:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 12:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 12:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201A	03/15/2011 01:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201A	03/11/2011 19:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11062243201A	03/04/2011 17:11	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201A	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201A	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182102A	03/01/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039402A	03/01/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-171-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SS-0.0-0.5

LLI Sample # SW 6216881
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:10

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9209 SDG#: DE092-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-171-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SS-0.0-0.5

LLI Sample # SW 6216881
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:10

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9209 SDG#: DE092-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	12		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.84	J	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	11	J	6.8	20	1
10138	Chrysene	218-01-9	1.6	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	8.2		0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.83	J	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	14	J	6.8	20	1
10138	Phenanthrene	85-01-8	1.2	J	0.76	1.9	1
10138	Pyrene	129-00-0	1.8	J	0.76	1.9	1

The following compounds were detected in the method blank at the respective concentrations of:
butylbenzylphthalate 6.25 ug/kg
di-n-octylphthalate 12 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	2.0	U	2.0	2.0	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	J	0.91	1.9	1
10401	MCPA	94-74-6	86	U	86	280	1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-171-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SS-0.0-0.5

LLI Sample # SW 6216881
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:10

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9209 SDG#: DE092-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9	1
01363	p,p-DDD	72-54-8	0.66		0.075	0.39	1
01363	p,p-DDE	72-55-9	25		0.75	3.9	10
01363	p,p-DDT	50-29-3	12		0.75	3.9	10
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	1.2		0.075	0.39	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39	1
01363	Endrin	72-20-8	0.075	U	0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.095	J	0.075	0.39	1
01363	Endrin Ketone	53494-70-5	0.15	J	0.075	0.39	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery for various compounds are outside the QC limits. Results from the reextraction are within the limits, however the TCX surrogate is outside the QC limits in the reextraction. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	37	10
10225	Aroclor 5442	12642-23-8	11	U	11	37	10
10225	Aroclor 5460	11126-42-4	11	U	11	37	10
10225	PCB-1016	12674-11-2	3.7	U	3.7	19	10
10225	PCB-1221	11104-28-2	3.7	U	3.7	19	10
10225	PCB-1232	11141-16-5	3.7	U	3.7	19	10
10225	PCB-1242	53469-21-9	3.7	U	3.7	19	10
10225	PCB-1248	12672-29-6	3.7	U	3.7	19	10
10225	PCB-1254	11097-69-1	3.7	U	3.7	19	10
10225	PCB-1260	11096-82-5	4.4	U	4.4	19	10
10225	PCB-1262	37324-23-5	3.7	U	3.7	19	10
10225	PCB-1268	11100-14-4	3.7	U	3.7	19	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		5.54	22.0	1
07914	Boron	7440-42-8	5.43	J	0.981	5.51	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-171-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SS-0.0-0.5

LLI Sample # SW 6216881
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:10

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9209 SDG#: DE092-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,750		6.76	22.0	1
01654	Iron	7439-89-6	18,400		5.19	22.0	1
01656	Lithium	7439-93-2	20.5		0.24	2.2	1
01657	Magnesium	7439-95-4	4,230		2.80	11.0	1
06958	Manganese	7439-96-5	290		0.0860	0.551	1
10145	Phosphorus	7723-14-0	579		0.617	11.0	1
01662	Potassium	7440-09-7	3,320		19.8	55.1	1
01667	Sodium	7440-23-5	71.2	J	41.1	110	1
07968	Strontium	7440-24-6	16.0		0.0683	0.551	1
06969	Tin	7440-31-5	2.59	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,100		0.419	1.10	1
10146	Zirconium	7440-67-7	3.27	J	0.926	5.51	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.167	J	0.0674	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.44		0.0899	0.450	2
06126	Barium	7440-39-3	109		0.121	0.450	2
06127	Beryllium	7440-41-7	0.585		0.0180	0.112	2
06128	Cadmium	7440-43-9	0.526		0.0450	0.112	2
06131	Chromium	7440-47-3	20.4		0.135	0.450	2
06132	Cobalt	7440-48-4	5.54		0.0225	0.112	2
06133	Copper	7440-50-8	10.2		0.0742	0.450	2
06135	Lead	7439-92-1	8.50		0.0117	0.225	2
06138	Molybdenum	7439-98-7	0.740		0.0562	0.112	2
06139	Nickel	7440-02-0	12.4		0.112	0.450	2
06141	Selenium	7782-49-2	0.177	J	0.0450	0.450	2
06142	Silver	7440-22-4	0.0413	J	0.0135	0.112	2
06145	Thallium	7440-28-0	0.297		0.0337	0.112	2
06148	Vanadium	7440-62-2	39.9		0.0247	0.112	2
06149	Zinc	7440-66-6	181		1.57	8.43	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0189	J	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-171-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SS-0.0-0.5

LLI Sample # SW 6216881
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Reported: 03/23/2011 15:19

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E9209 SDG#: DE092-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	396	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.85	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 15:16	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/10/2011 01:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690014A	03/12/2011 10:49	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600026A	03/13/2011 19:00	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600026A	03/13/2011 19:15	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/11/2011 22:16	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600026A	03/01/2011 22:00	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690014A	03/11/2011 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 19:36	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 13:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 13:03	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 19:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 13:03	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-171-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SS-0.0-0.5

LLI Sample # SW 6216881
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9209 SDG#: DE092-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 13:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 13:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 13:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 19:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 13:03	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 13:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 13:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 13:03	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 13:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 12:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 12:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 12:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 12:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 12:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 12:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 12:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 12:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 12:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 12:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 12:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 12:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 12:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 12:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 12:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 13:22	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201A	03/15/2011 02:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201A	03/11/2011 20:11	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11062243201A	03/04/2011 17:24	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201A	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201A	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182102A	03/01/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039402A	03/01/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-172-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SS-0.0-0.5

LLI Sample # SW 6216882
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:45

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9210 SDG#: DE092-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	18	J	18	180	1
04688	Benzo(a)pyrene	50-32-8	38	J	18	180	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	42	J	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	40	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SS-0.0-0.5

LLI Sample # SW 6216882
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:45

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9210 SDG#: DE092-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Di-n-butylphthalate	84-74-2	17	J	6.8	20	1
10138	Chrysene	218-01-9	0.88	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	1.7	J	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	14	J	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 13 ug/kg di-n-octylphthalate 12 ug/kg These blank values were not subtracted from the analytical results.						
	Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	2.7		0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	86	U	86	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SS-0.0-0.5

LLI Sample # SW 6216882
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:45

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9210 SDG#: DE092-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.26		0.084	0.19	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.084	U	0.084	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	3.7		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	1.6	U	1.6	1.9	1
10225	PCB-1260	11096-82-5	2.2		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.55	22.1	1
07914	Boron	7440-42-8	4.11	J	0.983	5.52	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SS-0.0-0.5

LLI Sample # SW 6216882
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:45

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9210 SDG#: DE092-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,450		6.77	22.1	1
01654	Iron	7439-89-6	19,600		5.20	22.1	1
01656	Lithium	7439-93-2	23.2		0.24	2.2	1
01657	Magnesium	7439-95-4	4,620		2.80	11.0	1
06958	Manganese	7439-96-5	316		0.0861	0.552	1
10145	Phosphorus	7723-14-0	479		0.618	11.0	1
01662	Potassium	7440-09-7	3,430		19.9	55.2	1
01667	Sodium	7440-23-5	86.6	J	41.2	110	1
07968	Strontium	7440-24-6	14.5		0.0685	0.552	1
06969	Tin	7440-31-5	2.83	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,240		0.420	1.10	1
10146	Zirconium	7440-67-7	3.97	J	0.927	5.52	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.148	J	0.0662	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.11		0.0883	0.442	2
06126	Barium	7440-39-3	123		0.119	0.442	2
06127	Beryllium	7440-41-7	0.610		0.0177	0.110	2
06128	Cadmium	7440-43-9	0.760		0.0442	0.110	2
06131	Chromium	7440-47-3	21.3		0.132	0.442	2
06132	Cobalt	7440-48-4	6.11		0.0221	0.110	2
06133	Copper	7440-50-8	10.7		0.0729	0.442	2
06135	Lead	7439-92-1	13.1		0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.726		0.0552	0.110	2
06139	Nickel	7440-02-0	12.9		0.110	0.442	2
06141	Selenium	7782-49-2	0.152	J	0.0442	0.442	2
06142	Silver	7440-22-4	0.124		0.0132	0.110	2
06145	Thallium	7440-28-0	0.298		0.0331	0.110	2
06148	Vanadium	7440-62-2	41.3		0.0243	0.110	2
06149	Zinc	7440-66-6	136		1.55	8.28	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0189	J	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-172-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SS-0.0-0.5

LLI Sample # SW 6216882
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:45

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9210 SDG#: DE092-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	393	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.57	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 15:42	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/16/2011 09:07	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690014A	03/12/2011 11:16	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600026A	03/13/2011 19:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/11/2011 22:39	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600026A	03/01/2011 22:00	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690014A	03/11/2011 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 19:40	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 13:07	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 13:07	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 19:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 13:07	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 13:07	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 13:07	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-172-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SS-0.0-0.5

LLI Sample # SW 6216882
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:45

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9210 SDG#: DE092-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 13:07	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 19:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 13:07	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 13:07	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 13:07	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 13:07	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 13:07	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 12:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 12:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 12:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 12:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 12:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 12:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 12:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 12:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 12:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 12:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 12:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 12:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 12:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 12:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 12:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/12/2011 04:11	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201A	03/15/2011 02:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201A	03/11/2011 20:35	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11062243201A	03/04/2011 17:42	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201A	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201A	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182102A	03/01/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039402A	03/01/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-173-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5A-SS-0.0-0.5

LLI Sample # SW 6216883
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:25

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9211 SDG#: DE092-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzo(a)pyrene	50-32-8	26	J	19	190	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	140	J	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-173-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5A-SS-0.0-0.5

LLI Sample # SW 6216883
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:25

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9211 SDG#: DE092-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	6.8		0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	2.3		0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	18	J	6.8	20	1
10138	Chrysene	218-01-9	3.6		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.93	J	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	1.2	J	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	14	J	6.8	20	1
10138	Phenanthrene	85-01-8	0.88	J	0.75	1.9	1
10138	Pyrene	129-00-0	0.93	J	0.75	1.9	1
	Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.						
	The following compounds were detected in the method blank at the respective concentrations of: butylbenzylphthalate 6.25 ug/kg di-n-octylphthalate 12 ug/kg These blank values were not subtracted from the analytical results.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-173-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5A-SS-0.0-0.5

LLI Sample # SW 6216883
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:25

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9211 SDG#: DE092-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	MCPA	94-74-6	840		86	280	1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.37		0.085	0.19	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9	1
01363	p,p-DDD	72-54-8	0.14	J	0.075	0.39	1
01363	p,p-DDE	72-55-9	2.1		0.37	1.9	5
01363	p,p-DDT	50-29-3	3.0		0.075	0.39	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.24	J	0.075	0.39	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39	1
01363	Endrin	72-20-8	0.075	U	0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39	1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS recovery for various compounds are outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	57	U	57	190	50
10225	Aroclor 5442	12642-23-8	57	U	57	190	50
10225	Aroclor 5460	11126-42-4	57	U	57	190	50
10225	PCB-1016	12674-11-2	19	U	19	96	50
10225	PCB-1221	11104-28-2	19	U	19	96	50
10225	PCB-1232	11141-16-5	19	U	19	96	50
10225	PCB-1242	53469-21-9	19	U	19	96	50
10225	PCB-1248	12672-29-6	19	U	19	96	50
10225	PCB-1254	11097-69-1	19	U	19	96	50
10225	PCB-1260	11096-82-5	22	U	22	96	50
10225	PCB-1262	37324-23-5	19	U	19	96	50
10225	PCB-1268	11100-14-4	19	U	19	96	50

*=This limit was used in the evaluation of the final result

Sample Description: SL-173-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5A-SS-0.0-0.5

LLI Sample # SW 6216883
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:25

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9211 SDG#: DE092-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.49	21.8	1
07914	Boron	7440-42-8	4.73	J	0.971	5.46	1
01650	Calcium	7440-70-2	2,660		6.69	21.8	1
01654	Iron	7439-89-6	18,900		5.14	21.8	1
01656	Lithium	7439-93-2	21.8		0.24	2.2	1
01657	Magnesium	7439-95-4	4,570		2.77	10.9	1
06958	Manganese	7439-96-5	307		0.0851	0.546	1
10145	Phosphorus	7723-14-0	431		0.611	10.9	1
01662	Potassium	7440-09-7	3,220		19.6	54.6	1
01667	Sodium	7440-23-5	120		40.7	109	1
07968	Strontium	7440-24-6	16.1		0.0677	0.546	1
06969	Tin	7440-31-5	2.71	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,190		0.415	1.09	1
10146	Zirconium	7440-67-7	3.72	J	0.917	5.46	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.178	J	0.0661	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.28		0.0882	0.441	2
06126	Barium	7440-39-3	106		0.119	0.441	2
06127	Beryllium	7440-41-7	0.576		0.0176	0.110	2
06128	Cadmium	7440-43-9	1.90		0.0441	0.110	2
06131	Chromium	7440-47-3	19.4		0.132	0.441	2
06132	Cobalt	7440-48-4	5.47		0.0220	0.110	2
06133	Copper	7440-50-8	8.96		0.0727	0.441	2
06135	Lead	7439-92-1	10.6		0.0115	0.220	2
06138	Molybdenum	7439-98-7	0.683		0.0551	0.110	2
06139	Nickel	7440-02-0	11.5		0.110	0.441	2
06141	Selenium	7782-49-2	0.138	J	0.0441	0.441	2
06142	Silver	7440-22-4	0.0671	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.280		0.0331	0.110	2
06148	Vanadium	7440-62-2	37.4		0.0242	0.110	2
06149	Zinc	7440-66-6	196		0.617	3.31	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0059	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-173-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5A-SS-0.0-0.5

LLI Sample # SW 6216883
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:25

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9211 SDG#: DE092-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	386	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.96	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 16:06	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/16/2011 09:38	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690014A	03/12/2011 11:44	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600026A	03/13/2011 19:43	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600026A	03/16/2011 01:09	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/11/2011 23:02	Lindsey K Lafferty	50
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600026A	03/01/2011 22:00	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690014A	03/11/2011 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 20:26	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 13:10	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 13:10	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 20:26	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 13:10	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 13:10	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-173-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5A-SS-0.0-0.5

LLI Sample # SW 6216883
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:25

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9211 SDG#: DE092-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 13:10	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 13:10	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 20:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 13:10	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 13:10	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 13:10	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 13:10	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 13:10	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 12:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 12:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 12:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 12:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 12:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 12:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 12:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 12:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 12:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 12:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 12:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 12:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 12:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 12:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 12:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 12:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201A	03/15/2011 02:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201A	03/11/2011 21:23	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11062243201A	03/04/2011 18:01	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201A	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201A	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182102A	03/01/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039402A	03/01/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SS-0.0-0.5

LLI Sample # SW 6216884
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 14:10

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9212 SDG#: DE092-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	20	390	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-174-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SS-0.0-0.5

LLI Sample # SW 6216884
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 14:10

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9212 SDG#: DE092-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	1.5	J	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	3.6		0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	10		0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	21		0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	6.8		0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	5.1		0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	23		7.1	21	1
10138	Di-n-butylphthalate	84-74-2	18	J	7.1	21	1
10138	Chrysene	218-01-9	5.5		0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	1.7	J	0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Fluoranthene	206-44-0	11		0.79	2.0	1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.4		0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0	1
10138	Naphthalene	91-20-3	1.5	J	0.79	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	14	J	7.1	21	1
10138	Phenanthrene	85-01-8	4.7		0.79	2.0	1
10138	Pyrene	129-00-0	7.1		0.79	2.0	1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 13 ug/kg
butylbenzylphthalate 6.25 ug/kg
di-n-octylphthalate 12 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	1.0	U	1.0	2.0	1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4	1
10401	Dinoseb	88-85-7	0.95	U	0.95	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.95	U	0.95	2.0	1
10401	MCPA	94-74-6	710		90	300	1
10401	MCPP (Mecoprop)	93-65-2	89	U	89	300	1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20	1
10401	2,4,5-TP	93-72-1	0.089	U	0.089	0.20	1

Due to interfering peaks on the chromatogram, the values reported represent

Sample Description: **SL-174-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SS-0.0-0.5

LLI Sample # SW 6216884
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 14:10

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9212 SDG#: DE092-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20	1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20	1
01363	Chlordane	57-74-9	1.7	U	1.7	4.0	1
01363	p,p-DDD	72-54-8	0.12	U	0.12	0.40	1
01363	p,p-DDE	72-55-9	1.1		0.078	0.40	1
01363	p,p-DDT	50-29-3	1.6		0.078	0.40	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.20	1
01363	Dieldrin	60-57-1	2.0		0.078	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40	1
01363	Endrin	72-20-8	0.078	U	0.078	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.078	U	0.078	0.40	1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40	1
01363	Heptachlor	76-44-8	0.090	J	0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20	1
01363	Methoxychlor	72-43-5	0.49	J	0.40	2.0	1
01363	Mirex	2385-85-5	0.13	J	0.078	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery for various compounds are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Due to interfering peaks on the chromatogram, the values reported for p,p-DDD and technical chlordane represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-174-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SS-0.0-0.5

LLI Sample # SW 6216884
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 14:10

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9212 SDG#: DE092-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,300		5.95	23.6	1
07914	Boron	7440-42-8	4.45	J	1.05	5.91	1
01650	Calcium	7440-70-2	2,490		7.25	23.6	1
01654	Iron	7439-89-6	19,900		5.57	23.6	1
01656	Lithium	7439-93-2	22.6		0.26	2.4	1
01657	Magnesium	7439-95-4	4,690		3.00	11.8	1
06958	Manganese	7439-96-5	319		0.0922	0.591	1
10145	Phosphorus	7723-14-0	402		0.662	11.8	1
01662	Potassium	7440-09-7	3,270		21.3	59.1	1
01667	Sodium	7440-23-5	107	J	44.1	118	1
07968	Strontium	7440-24-6	16.6		0.0733	0.591	1
06969	Tin	7440-31-5	2.83	J	1.18	11.8	1
06970	Titanium	7440-32-6	1,230		0.449	1.18	1
10146	Zirconium	7440-67-7	2.75	J	0.993	5.91	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.159	J	0.0695	0.232	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.86		0.0927	0.464	2
06126	Barium	7440-39-3	121		0.125	0.464	2
06127	Beryllium	7440-41-7	0.659		0.0185	0.116	2
06128	Cadmium	7440-43-9	0.337		0.0464	0.116	2
06131	Chromium	7440-47-3	21.5		0.139	0.464	2
06132	Cobalt	7440-48-4	6.04		0.0232	0.116	2
06133	Copper	7440-50-8	11.0		0.0765	0.464	2
06135	Lead	7439-92-1	7.73		0.0121	0.232	2
06138	Molybdenum	7439-98-7	0.857		0.0579	0.116	2
06139	Nickel	7440-02-0	12.8		0.116	0.464	2
06141	Selenium	7782-49-2	0.152	J	0.0464	0.464	2
06142	Silver	7440-22-4	0.0447	J	0.0139	0.116	2
06145	Thallium	7440-28-0	0.308		0.0348	0.116	2
06148	Vanadium	7440-62-2	41.8		0.0255	0.116	2
06149	Zinc	7440-66-6	202		0.649	3.48	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0039	J	0.0033	0.117	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.24	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-174-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SS-0.0-0.5

LLI Sample # SW 6216884
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 14:10

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9212 SDG#: DE092-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	386	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.92	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 16:32	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/16/2011 10:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690014A	03/12/2011 12:11	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110600026A	03/13/2011 19:57	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/11/2011 23:26	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110600026A	03/01/2011 22:00	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690014A	03/11/2011 03:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 20:30	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 13:14	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 13:14	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 20:30	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 13:14	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 13:14	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 13:14	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-174-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SS-0.0-0.5

LLI Sample # SW 6216884
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 14:10

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9212 SDG#: DE092-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 13:14	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 20:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 13:14	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 13:14	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 13:14	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 13:14	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 13:14	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 12:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 12:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 12:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 12:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 12:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 12:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 12:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 12:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 12:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 12:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 12:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 12:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 12:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 12:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 12:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 12:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201B	03/15/2011 02:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201A	03/10/2011 06:52	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11062243201A	03/04/2011 18:14	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201B	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201A	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182102A	03/01/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039402A	03/01/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-053-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SB-3.0-4.0

LLI Sample # SW 6216885
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:28

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9213 SDG#: DE092-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.8	U	7.8	9.4	1.04
06192	Benzene	71-43-2	0.12	U	0.12	4.7	1.04
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.7	1.04
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.7	1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.7	1.04
06192	Bromoform	75-25-2	0.47	U	0.47	4.7	1.04
06192	Bromomethane	74-83-9	0.29	U	0.29	4.7	1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	9.4	1.04
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.7	1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.7	1.04
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.7	1.04
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.7	1.04
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.7	1.04
06192	Chloroethane	75-00-3	0.15	U	0.15	4.7	1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.7	1.04
06192	Chloroform	67-66-3	0.14	U	0.14	4.7	1.04
06192	Chloromethane	74-87-3	0.39	U	0.39	4.7	1.04
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.7	1.04
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.7	1.04
06192	Chlorotrifluoroethene	79-38-9	0.59	U	0.59	5.9	1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82	U	0.82	4.7	1.04
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.7	1.04
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.7	1.04
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.7	1.04
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.7	1.04
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.7	1.04
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.7	1.04
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.7	1.04
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.7	1.04
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.7	1.04
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.7	1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.7	1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.7	1.04
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.7	1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.7	1.04
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.7	1.04
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.7	1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.7	1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.7	1.04
06192	Ethylbenzene	100-41-4	0.19	J	0.07	4.7	1.04
06192	Freon 113	76-13-1	0.13	U	0.13	4.7	1.04
06192	Freon 133a	75-88-7	0.59	U	0.59	5.9	1.04
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.7	1.04
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.4	1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.7	1.04
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.7	1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.7	1.04
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.4	1.04
06192	Methylene Chloride	75-09-2	0.60	J	0.28	4.7	1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.7	1.04

*=This limit was used in the evaluation of the final result

Sample Description: SL-053-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SB-3.0-4.0

LLI Sample # SW 6216885
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:28

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9213 SDG#: DE092-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.7	1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.7	1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.7	1.04
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.7	1.04
06192	Toluene	108-88-3	0.12	J	0.09	4.7	1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.7	1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.7	1.04
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.7	1.04
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.7	1.04
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.7	1.04
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.7	1.04
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.7	1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.7	1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.7	1.04
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.7	1.04
06192	m+p-Xylene	179601-23-1	0.61	J	0.20	4.7	1.04
06192	o-Xylene	95-47-6	0.20	U	0.20	4.7	1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.2	U	6.2	19	27.53
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-053-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SB-3.0-4.0

LLI Sample # SW 6216885
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:28

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9213 SDG#: DE092-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	6.5		0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-053-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SB-3.0-4.0

LLI Sample # SW 6216885
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:28

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9213 SDG#: DE092-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		5.57	22.1	1
07914	Boron	7440-42-8	2.41	J	0.985	5.53	1
01650	Calcium	7440-70-2	3,480		6.78	22.1	1
01654	Iron	7439-89-6	20,000		5.21	22.1	1
01656	Lithium	7439-93-2	22.3		0.24	2.2	1
01657	Magnesium	7439-95-4	4,720		2.81	11.1	1
06958	Manganese	7439-96-5	323		0.0863	0.553	1
10145	Phosphorus	7723-14-0	792		0.620	11.1	1
01662	Potassium	7440-09-7	1,900		19.9	55.3	1
01667	Sodium	7440-23-5	109	J	41.3	111	1
07968	Strontium	7440-24-6	17.8		0.0686	0.553	1
06969	Tin	7440-31-5	3.25	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,300		0.420	1.11	1
10146	Zirconium	7440-67-7	3.91	J	0.929	5.53	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.124	J	0.0677	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.03		0.0903	0.451	2
06126	Barium	7440-39-3	108		0.122	0.451	2
06127	Beryllium	7440-41-7	0.770		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.0709	J	0.0451	0.113	2
06131	Chromium	7440-47-3	24.5		0.135	0.451	2
06132	Cobalt	7440-48-4	11.6		0.0226	0.113	2
06133	Copper	7440-50-8	10.6		0.0745	0.451	2
06135	Lead	7439-92-1	7.18		0.0117	0.226	2
06138	Molybdenum	7439-98-7	0.919		0.0564	0.113	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-053-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SB-3.0-4.0

LLI Sample # SW 6216885
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:28

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9213 SDG#: DE092-13

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	21.8	0.113	0.451	2
06141	Selenium		7782-49-2	0.104 J	0.0451	0.451	2
06142	Silver		7440-22-4	0.0135 U	0.0135	0.113	2
06145	Thallium		7440-28-0	0.429	0.0339	0.113	2
06148	Vanadium		7440-62-2	41.9	0.0248	0.113	2
06149	Zinc		7440-66-6	71.0	0.632	3.39	2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0060 J	0.0030	0.105	1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.7	0.90	1.1	1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.2 U	10.2	33.9	1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.23 U	0.23	1.1	1
		ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	502	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.31	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-053-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-053-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SB-3.0-4.0

LLI Sample # SW 6216885
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:28

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9213 SDG#: DE092-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110592AA	03/01/2011 01:38	Stephanie A Selis	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110592AA	02/28/2011 14:05	Jason M Long	27.53
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105723766	02/26/2011 15:11	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105723766	02/26/2011 15:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105723766	02/26/2011 15:23	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105723766	02/26/2011 15:12	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 16:57	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/09/2011 20:09	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/11/2011 23:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 19:54	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 13:17	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 13:17	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 19:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 13:17	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 13:17	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 13:17	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 13:17	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 19:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 13:17	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 13:17	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 13:17	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 13:17	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 13:17	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 12:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 12:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 12:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 12:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 12:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 12:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 12:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 12:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 12:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 12:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 12:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 12:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 12:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 12:57	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-053-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SB-3.0-4.0

LLI Sample # SW 6216885
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:28

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9213 SDG#: DE092-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 12:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 12:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201B	03/15/2011 04:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201A	03/10/2011 07:16	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11062243201A	03/04/2011 18:20	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201B	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201A	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182102A	03/01/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039402A	03/01/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-4.0-5.0

LLI Sample # SW 6216886
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:25

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9214 SDG#: DE092-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4	0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.2	0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2	0.94
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2	0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2	0.94
06192	Bromoform	75-25-2	0.42	U	0.42	4.2	0.94
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2	0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4	0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2	0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2	0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2	0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2	0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2	0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2	0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2	0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.2	0.94
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2	0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2	0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2	0.94
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3	0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2	0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2	0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2	0.94
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2	0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2	0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2	0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2	0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2	0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2	0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2	0.94
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2	0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2	0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2	0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2	0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2	0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2	0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2	0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2	0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2	0.94
06192	Ethylbenzene	100-41-4	0.07	J	0.06	4.2	0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.2	0.94
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3	0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2	0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4	0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2	0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2	0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2	0.94
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4	0.94
06192	Methylene Chloride	75-09-2	0.60	J	0.25	4.2	0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2	0.94

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-4.0-5.0

LLI Sample # SW 6216886
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:25

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9214 SDG#: DE092-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2	0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2	0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2	0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2	0.94
06192	Toluene	108-88-3	0.08	U	0.08	4.2	0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2	0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2	0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2	0.94
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2	0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2	0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2	0.94
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2	0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2	0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2	0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2	0.94
06192	m+p-Xylene	179601-23-1	0.22	J	0.18	4.2	0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2	0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16	24.46
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-4.0-5.0

LLI Sample # SW 6216886
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:25

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9214 SDG#: DE092-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	J	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	12	J	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	6.4		0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-4.0-5.0

LLI Sample # SW 6216886
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:25

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9214 SDG#: DE092-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	14	J	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 13 ug/kg di-n-octylphthalate 12 ug/kg These blank values were not subtracted from the analytical results.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.47	21.8	1
07914	Boron	7440-42-8	3.36	J	0.969	5.44	1
01650	Calcium	7440-70-2	2,180		6.67	21.8	1
01654	Iron	7439-89-6	20,000		5.13	21.8	1
01656	Lithium	7439-93-2	21.8		0.24	2.2	1
01657	Magnesium	7439-95-4	4,630		2.76	10.9	1
06958	Manganese	7439-96-5	172		0.0849	0.544	1
10145	Phosphorus	7723-14-0	110		0.610	10.9	1
01662	Potassium	7440-09-7	1,750		19.6	54.4	1
01667	Sodium	7440-23-5	107	J	40.6	109	1
07968	Strontium	7440-24-6	21.1		0.0675	0.544	1
06969	Tin	7440-31-5	2.75	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,210		0.414	1.09	1
10146	Zirconium	7440-67-7	3.94	J	0.914	5.44	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0666	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.33		0.0888	0.444	2
06126	Barium	7440-39-3	92.5		0.120	0.444	2
06127	Beryllium	7440-41-7	0.898		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.0444	U	0.0444	0.111	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-4.0-5.0

LLI Sample # SW 6216886
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:25

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9214 SDG#: DE092-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	29.1		0.133	0.444	2
06132	Cobalt	7440-48-4	5.55		0.0222	0.111	2
06133	Copper	7440-50-8	11.0		0.0733	0.444	2
06135	Lead	7439-92-1	8.37		0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.652		0.0555	0.111	2
06139	Nickel	7440-02-0	13.1		0.111	0.444	2
06141	Selenium	7782-49-2	0.106	J	0.0444	0.444	2
06142	Silver	7440-22-4	0.132		0.0133	0.111	2
06145	Thallium	7440-28-0	0.321		0.0333	0.111	2
06148	Vanadium	7440-62-2	50.9		0.0244	0.111	2
06149	Zinc	7440-66-6	60.6		0.622	3.33	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0036	J	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	496		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.35		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.8		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-054-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-4.0-5.0

LLI Sample # SW 6216886
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9214 SDG#: DE092-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110592AA	03/01/2011 02:00	Stephanie A Selis	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110592AA	02/28/2011 14:25	Jason M Long	24.46
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105723766	02/26/2011 15:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105723766	02/26/2011 15:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105723766	02/26/2011 15:23	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105723766	02/26/2011 15:14	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 17:22	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/09/2011 20:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/12/2011 00:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 19:58	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 13:21	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 13:21	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 19:58	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 13:21	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 13:21	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 13:21	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 13:21	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 19:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 13:21	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 13:21	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 13:21	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 13:21	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 13:21	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 13:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 13:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 13:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 13:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 13:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 13:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 13:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 13:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 13:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 13:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 13:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 13:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 13:00	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-054-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-4.0-5.0

LLI Sample # SW 6216886
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:25

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9214 SDG#: DE092-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 13:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 13:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 13:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201B	03/15/2011 04:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201A	03/10/2011 08:04	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11062243201A	03/04/2011 18:38	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201B	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201A	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182102A	03/01/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039402A	03/01/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-9.0-10.0

LLI Sample # SW 6216887
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:30

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9215 SDG#: DE092-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-9.0-10.0

LLI Sample # SW 6216887
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:30

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9215 SDG#: DE092-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	6.6		0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,000		5.74	22.8	1
07914	Boron	7440-42-8	3.01	J	1.02	5.70	1
01650	Calcium	7440-70-2	2,540		6.99	22.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-9.0-10.0

LLI Sample # SW 6216887
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:30

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9215 SDG#: DE092-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	26,800		5.37	22.8	1
01656	Lithium	7439-93-2	25.3		0.25	2.3	1
01657	Magnesium	7439-95-4	4,990		2.90	11.4	1
06958	Manganese	7439-96-5	138		0.0890	0.570	1
10145	Phosphorus	7723-14-0	179		0.639	11.4	1
01662	Potassium	7440-09-7	1,300		20.5	57.0	1
01667	Sodium	7440-23-5	242		42.5	114	1
07968	Strontium	7440-24-6	24.2		0.0707	0.570	1
06969	Tin	7440-31-5	3.19	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,150		0.433	1.14	1
10146	Zirconium	7440-67-7	4.29	J	0.958	5.70	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.217	J	0.0684	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.6		0.0913	0.456	2
06126	Barium	7440-39-3	87.9		0.123	0.456	2
06127	Beryllium	7440-41-7	0.928		0.0183	0.114	2
06128	Cadmium	7440-43-9	0.114	J	0.0456	0.114	2
06131	Chromium	7440-47-3	34.9		0.137	0.456	2
06132	Cobalt	7440-48-4	7.86		0.0228	0.114	2
06133	Copper	7440-50-8	15.3		0.0753	0.456	2
06135	Lead	7439-92-1	12.3		0.0119	0.228	2
06138	Molybdenum	7439-98-7	0.834		0.0570	0.114	2
06139	Nickel	7440-02-0	18.5		0.114	0.456	2
06141	Selenium	7782-49-2	0.0821	J	0.0456	0.456	2
06142	Silver	7440-22-4	0.0597	J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.301		0.0342	0.114	2
06148	Vanadium	7440-62-2	58.7		0.0251	0.114	2
06149	Zinc	7440-66-6	61.4		0.639	3.42	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0066	J	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3		0.92	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	323		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-9.0-10.0

LLI Sample # SW 6216887
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:30

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9215 SDG#: DE092-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.57	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 17:47	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/09/2011 21:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/12/2011 00:35	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 20:01	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 13:31	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 13:31	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 20:01	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 13:31	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 13:31	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 13:31	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 13:31	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 20:01	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 13:31	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 13:31	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 13:31	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 13:31	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-054-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-9.0-10.0

LLI Sample # SW 6216887
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:30

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9215 SDG#: DE092-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 13:31	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 13:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 13:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 13:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 13:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 13:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 13:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 13:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 13:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 13:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 13:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 13:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 13:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 13:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 13:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 13:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 13:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201B	03/15/2011 04:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201A	03/10/2011 08:28	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11062243201A	03/04/2011 19:35	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201B	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201A	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182102B	03/01/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039402B	03/01/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SB-2.0-3.0

LLI Sample # SW 6216888
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 12:38

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9216 SDG#: DE092-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6	U	7.6	9.1	1
06192	Benzene	71-43-2	0.11	U	0.11	4.5	1
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5	1
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5	1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5	1
06192	Bromoform	75-25-2	0.45	U	0.45	4.5	1
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5	1
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1	1
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5	1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5	1
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5	1
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5	1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5	1
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5	1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5	1
06192	Chloroform	67-66-3	0.14	U	0.14	4.5	1
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5	1
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5	1
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5	1
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7	1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5	1
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5	1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5	1
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5	1
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5	1
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5	1
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5	1
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5	1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5	1
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5	1
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5	1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5	1
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5	1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5	1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5	1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5	1
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5	1
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5	1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5	1
06192	Ethylbenzene	100-41-4	0.11	J	0.07	4.5	1
06192	Freon 113	76-13-1	0.12	U	0.12	4.5	1
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7	1
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5	1
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1	1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5	1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5	1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5	1
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1	1
06192	Methylene Chloride	75-09-2	0.49	J	0.27	4.5	1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-055-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SB-2.0-3.0

LLI Sample # SW 6216888
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 12:38

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9216 SDG#: DE092-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5	1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5	1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5	1
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5	1
06192	Toluene	108-88-3	0.09	U	0.09	4.5	1
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5	1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5	1
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5	1
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5	1
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5	1
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5	1
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5	1
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5	1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5	1
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5	1
06192	m+p-Xylene	179601-23-1	0.33	J	0.19	4.5	1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16	23.9
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-055-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SB-2.0-3.0

LLI Sample # SW 6216888
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 12:38

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9216 SDG#: DE092-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	6.5		0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-055-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SB-2.0-3.0

LLI Sample # SW 6216888
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 12:38

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9216 SDG#: DE092-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,900		5.47	21.7	1
07914	Boron	7440-42-8	0.967	U	0.967	5.43	1
01650	Calcium	7440-70-2	4,810		6.66	21.7	1
01654	Iron	7439-89-6	38,400		25.6	109	5
01656	Lithium	7439-93-2	42.4		0.24	2.2	1
01657	Magnesium	7439-95-4	8,920		2.76	10.9	1
06958	Manganese	7439-96-5	307		0.0847	0.543	1
10145	Phosphorus	7723-14-0	649		0.608	10.9	1
01662	Potassium	7440-09-7	2,800		19.6	54.3	1
01667	Sodium	7440-23-5	170		40.5	109	1
07968	Strontium	7440-24-6	33.7		0.0674	0.543	1
06969	Tin	7440-31-5	3.33	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,680		0.413	1.09	1
10146	Zirconium	7440-67-7	4.91	J	0.913	5.43	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.233		0.0658	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	13.8		0.0878	0.439	2
06126	Barium	7440-39-3	200		0.296	1.10	5
06127	Beryllium	7440-41-7	1.42		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.159		0.0439	0.110	2
06131	Chromium	7440-47-3	45.1		0.132	0.439	2
06132	Cobalt	7440-48-4	14.2		0.0219	0.110	2
06133	Copper	7440-50-8	23.1		0.0724	0.439	2
06135	Lead	7439-92-1	13.2		0.0114	0.219	2
06138	Molybdenum	7439-98-7	1.23		0.0549	0.110	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-055-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SB-2.0-3.0

LLI Sample # SW 6216888
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 12:38

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9216 SDG#: DE092-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	24.8	0.110	0.439	2
06141	Selenium	7782-49-2	0.436 J	0.0439	0.439	2
06142	Silver	7440-22-4	0.0297 J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.538	0.0329	0.110	2
06148	Vanadium	7440-62-2	80.4	0.0241	0.110	2
06149	Zinc	7440-66-6	127	0.614	3.29	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0058 J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	33.9	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45 J	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	444	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.10	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-055-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-055-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SB-2.0-3.0

LLI Sample # SW 6216888
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 12:38

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9216 SDG#: DE092-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110592AA	03/01/2011 02:22	Stephanie A Selis	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110592AA	02/28/2011 14:45	Jason M Long	23.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105723766	02/26/2011 15:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105723766	02/26/2011 15:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105723766	02/26/2011 15:23	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105723766	02/26/2011 15:16	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 18:12	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/09/2011 21:42	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/12/2011 00:58	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 20:12	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/10/2011 20:12	John P Hook	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 13:35	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 20:15	John P Hook	5
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 13:35	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 13:35	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 13:35	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 13:35	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 20:12	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 13:35	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 13:35	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 13:35	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 13:35	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 13:35	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 13:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 13:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/12/2011 04:13	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 13:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 13:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 13:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 13:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 13:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 13:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 13:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 13:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 13:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 13:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 13:12	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-055-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SB-2.0-3.0

LLI Sample # SW 6216888
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 12:38

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9216 SDG#: DE092-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 13:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 13:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201B	03/15/2011 04:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201A	03/10/2011 08:52	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11062243201A	03/04/2011 20:06	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201B	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201A	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182102B	03/01/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039402B	03/01/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-056-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-4.0-5.0

LLI Sample # SW 6216889
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:43

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9217 SDG#: DE092-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0	0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0	0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0	0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0	0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0	0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0	0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0	0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0	0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0	0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0	0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0	0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0	0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0	0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0	0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0	0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0	0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0	0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0	0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0	0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0	0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0	0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0	0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0	0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0	0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0	0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0	0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0	0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0	0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0	0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0	0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0	0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0	0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0	0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0	0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0	0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0	0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0	0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0	0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0	0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0	0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0	0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0	0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0	0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0	0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0	0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0	0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0	0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0	0.87
06192	Methylene Chloride	75-09-2	0.51	J	0.24	4.0	0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0	0.87

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-4.0-5.0

LLI Sample # SW 6216889
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:43

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9217 SDG#: DE092-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0	0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0	0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0	0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0	0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.0	0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0	0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0	0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0	0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0	0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0	0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0	0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0	0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0	0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0	0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0	0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0	0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0	0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15	21.55
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-4.0-5.0

LLI Sample # SW 6216889
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:43

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9217 SDG#: DE092-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	6.6		0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-4.0-5.0

LLI Sample # SW 6216889
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:43

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9217 SDG#: DE092-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,500		5.55	22.1	1
07914	Boron	7440-42-8	3.04	J	0.981	5.51	1
01650	Calcium	7440-70-2	1,920		6.76	22.1	1
01654	Iron	7439-89-6	22,700		5.19	22.1	1
01656	Lithium	7439-93-2	23.1		0.24	2.2	1
01657	Magnesium	7439-95-4	4,600		2.80	11.0	1
06958	Manganese	7439-96-5	222		0.0860	0.551	1
10145	Phosphorus	7723-14-0	235		0.618	11.0	1
01662	Potassium	7440-09-7	1,950		19.8	55.1	1
01667	Sodium	7440-23-5	73.6	J	41.1	110	1
07968	Strontium	7440-24-6	22.5		0.0684	0.551	1
06969	Tin	7440-31-5	2.91	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,190		0.419	1.10	1
10146	Zirconium	7440-67-7	4.56	J	0.926	5.51	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0681	0.227	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.02		0.0908	0.454	2
06126	Barium	7440-39-3	122		0.123	0.454	2
06127	Beryllium	7440-41-7	1.02		0.0182	0.114	2
06128	Cadmium	7440-43-9	0.109	J	0.0454	0.114	2
06131	Chromium	7440-47-3	28.3		0.136	0.454	2
06132	Cobalt	7440-48-4	9.69		0.0227	0.114	2
06133	Copper	7440-50-8	11.8		0.0749	0.454	2
06135	Lead	7439-92-1	9.24		0.0118	0.227	2
06138	Molybdenum	7439-98-7	1.34		0.0568	0.114	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-4.0-5.0

LLI Sample # SW 6216889
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:43

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9217 SDG#: DE092-17

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	17.3	0.114	0.454	2
06141	Selenium		7782-49-2	0.130 J	0.0454	0.454	2
06142	Silver		7440-22-4	0.0644 J	0.0136	0.114	2
06145	Thallium		7440-28-0	0.343	0.0341	0.114	2
06148	Vanadium		7440-62-2	51.3	0.0250	0.114	2
06149	Zinc		7440-66-6	66.7	0.636	3.41	2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0031 U	0.0031	0.109	1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.6	0.92	1.1	1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.3 U	10.3	34.4	1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.43 J	0.23	1.1	1
		ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	467	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.00	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	12.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-056-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-056-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-4.0-5.0

LLI Sample # SW 6216889
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:43

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9217 SDG#: DE092-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110592AA	03/01/2011 02:45	Stephanie A Selis	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110592AA	02/28/2011 15:05	Jason M Long	21.55
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201105723766	02/26/2011 15:18	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201105723766	02/26/2011 15:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201105723766	02/26/2011 15:23	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201105723766	02/26/2011 15:19	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 18:37	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/09/2011 22:13	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/12/2011 02:54	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 20:19	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 13:38	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 13:38	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 20:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 13:38	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 13:38	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 13:38	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 13:38	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 20:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 13:38	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 13:38	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 13:38	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 13:38	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 13:38	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 13:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 13:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 13:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 13:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 13:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 13:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 13:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 13:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 13:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 13:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 13:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 13:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 13:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 13:15	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-056-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-4.0-5.0

LLI Sample # SW 6216889
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:43

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9217 SDG#: DE092-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 13:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 13:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201B	03/15/2011 05:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201A	03/10/2011 09:16	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11062243201A	03/04/2011 20:18	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201B	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201A	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182102B	03/01/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039402B	03/01/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-056-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-7.0-8.0

LLI Sample # SW 6216890
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:47

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9218 SDG#: DE092-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	78	U	78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	49	J	19	390	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	78	U	78	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-7.0-8.0

LLI Sample # SW 6216890
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:47

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9218 SDG#: DE092-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	6.7		0.78	1.9	1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9	1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9	1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9	1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,700		5.64	22.4	1
07914	Boron	7440-42-8	2.00	J	0.997	5.60	1
01650	Calcium	7440-70-2	2,200		6.87	22.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-056-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-7.0-8.0

LLI Sample # SW 6216890
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:47

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9218 SDG#: DE092-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,500		5.28	22.4	1
01656	Lithium	7439-93-2	20.4		0.25	2.2	1
01657	Magnesium	7439-95-4	4,790		2.85	11.2	1
06958	Manganese	7439-96-5	313		0.0874	0.560	1
10145	Phosphorus	7723-14-0	332		0.628	11.2	1
01662	Potassium	7440-09-7	2,320		20.2	56.0	1
01667	Sodium	7440-23-5	109	J	41.8	112	1
07968	Strontium	7440-24-6	18.9		0.0695	0.560	1
06969	Tin	7440-31-5	2.94	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,320		0.426	1.12	1
10146	Zirconium	7440-67-7	4.12	J	0.941	5.60	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.159	J	0.0679	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.08		0.0905	0.453	2
06126	Barium	7440-39-3	83.0		0.122	0.453	2
06127	Beryllium	7440-41-7	0.824		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.104	J	0.0453	0.113	2
06131	Chromium	7440-47-3	25.8		0.136	0.453	2
06132	Cobalt	7440-48-4	15.2		0.0226	0.113	2
06133	Copper	7440-50-8	11.1		0.0747	0.453	2
06135	Lead	7439-92-1	6.70		0.0118	0.226	2
06138	Molybdenum	7439-98-7	0.767		0.0566	0.113	2
06139	Nickel	7440-02-0	15.0		0.113	0.453	2
06141	Selenium	7782-49-2	0.120	J	0.0453	0.453	2
06142	Silver	7440-22-4	0.0153	J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.330		0.0339	0.113	2
06148	Vanadium	7440-62-2	48.2		0.0249	0.113	2
06149	Zinc	7440-66-6	67.7		0.634	3.39	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	479		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-056-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-7.0-8.0

LLI Sample # SW 6216890
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:47

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9218 SDG#: DE092-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.93	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11061SLD026	03/09/2011 19:02	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063SLA026	03/09/2011 22:44	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11063SLA026	03/05/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11061SLD026	03/02/2011 21:30	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110610015A	03/12/2011 03:17	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110610015A	03/02/2011 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110665708002	03/10/2011 20:22	John P Hook	1
07914	Boron	SW-846 6010B	1	110665708002	03/09/2011 13:42	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110665708002	03/09/2011 13:42	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110665708002	03/10/2011 20:22	John P Hook	1
01656	Lithium	SW-846 6010B	1	110665708002	03/09/2011 13:42	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110665708002	03/09/2011 13:42	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110665708002	03/09/2011 13:42	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110665708002	03/09/2011 13:42	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110665708002	03/10/2011 20:22	John P Hook	1
01667	Sodium	SW-846 6010B	1	110665708002	03/09/2011 13:42	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110665708002	03/09/2011 13:42	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110665708002	03/09/2011 13:42	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110665708002	03/09/2011 13:42	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-056-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-7.0-8.0

LLI Sample # SW 6216890
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:47

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9218 SDG#: DE092-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110665708002	03/09/2011 13:42	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110661026002A	03/11/2011 13:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110661026002A	03/11/2011 13:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110661026002D	03/11/2011 13:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110661026002A	03/11/2011 13:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110661026002A	03/11/2011 13:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110661026002A	03/11/2011 13:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110661026002A	03/11/2011 13:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110661026002A	03/11/2011 13:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110661026002A	03/11/2011 13:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110661026002C	03/11/2011 13:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110661026002A	03/11/2011 13:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110661026002B	03/11/2011 13:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110661026002A	03/11/2011 13:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110661026002A	03/11/2011 13:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110661026002A	03/11/2011 13:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110661026002A	03/11/2011 13:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110665711001	03/08/2011 10:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110665708002	03/07/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110661026002	03/07/2011 20:56	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110665711001	03/08/2011 01:10	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621201B	03/15/2011 05:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201A	03/11/2011 14:34	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11062243201A	03/04/2011 20:31	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621201B	03/09/2011 07:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201A	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11060182102B	03/01/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11060039402B	03/01/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11062243201A	03/03/2011 10:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-022511 Water
SSFL Area IV Collocated Soil Sampling
TB-022511

LLI Sample # WW 6216891
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 16:30

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9219 SDG#: DE092-19TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-022511 Water
SSFL Area IV Collocated Soil Sampling
TB-022511

LLI Sample # WW 6216891
LLI Group # 1234858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 16:30

Submitted: 02/26/2011 09:15
Reported: 03/23/2011 15:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9219 SDG#: DE092-19TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110591AA	02/28/2011 13:27	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110591AA	02/28/2011 09:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110591AA	02/28/2011 09:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110591AA	02/28/2011 13:27	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234858
Reported: 03/23/11 at 03:19 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110592AA	Sample number(s): 6216885-6216886,6216888-6216889									
Acetone	6.7	U	6.7	8.0	ug/kg	118	121	32-209	2	30
Benzene	0.10	U	0.10	4.0	ug/kg	102	102	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	102	103	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	99	100	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	90	91	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	83	87	70-120	5	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	66	66	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	105	111	46-153	5	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	107	108	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	109	109	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	104	104	75-120	0	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	97	98	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97	99	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	68	66	37-154	4	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	86	88	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	100	102	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	75	75	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104	105	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	103	79-120	0	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	73	72	22-131	1	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	88	92	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	84	86	77-120	3	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96	99	80-120	3	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	98	99	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	101	102	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99	100	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	100	79-120	0	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	60	60	20-120	0	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	103	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	102	104	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113	114	73-123	1	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102	103	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103	105	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97	99	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	98	100	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97	98	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	103	105	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88	88	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	85	88	77-120	4	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101	102	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	121	119	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	103	102	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101	101	57-120	0	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	103	109	45-155	6	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101	103	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	107	107	75-120	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234858
Reported: 03/23/11 at 03:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	99	102	74-121	2	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	105	111	61-134	6	30
Methylene Chloride	0.57	J	0.24	4.0	ug/kg	108	109	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	110	110	77-120	0	30
Styrene	0.10	U	0.10	4.0	ug/kg	94	95	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	92	94	80-120	3	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98	102	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100	102	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	100	102	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	100	101	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	99	100	68-120	1	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	104	105	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97	99	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99	100	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	97	96	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	102	106	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	106	106	79-120	0	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	106	106	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	82	81	53-120	0	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99	100	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	98	99	80-120	1	30
Batch number: E110591AA	Sample number(s): 6216891									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	115	116	80-123	1	30
Batch number: E110592AA	Sample number(s): 6216885-6216886,6216888-6216889									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	103	110	70-130	7	30
Batch number: Y110591AA	Sample number(s): 6216891									
Acetone	6	U	6.	20	ug/l	81	79	49-234	3	30
Benzene	0.5	U	0.5	5	ug/l	95	95	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	94	95	80-120	1	30
Bromoform	1	U	1.	5	ug/l	80	84	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	87	87	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	101	101	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	99	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	93	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	93	93	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	80	80	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	118	116	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	100	99	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	80	81	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	100	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	96	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	48	50	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	93	92	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	91	91	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	99	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	95	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	96	96	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	76	74	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	98	97	79-120	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234858
Reported: 03/23/11 at 03:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	107	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	84	85	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	92	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	98	96	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	102	102	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	93	94	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	98	96	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	94	95	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	98	79-120	1	30
Freon 113	2	U	2.	10	ug/l	82	82	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	93	94	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	86	87	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	103	102	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	96	95	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	100	99	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	105	106	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	89	90	80-120	0	30
n-Propylbenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
Styrene	1	U	1.	5	ug/l	91	93	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	94	96	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	102	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	92	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	95	95	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	87	89	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	92	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	84	84	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	98	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	95	95	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	92	91	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	107	106	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	101	101	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	99	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	79	79	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	94	93	80-120	1	30
Batch number: 11061SLD026	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890									
Aniline	170 U		170.	500	ug/kg	103*		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	75		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	100		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	96		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	95		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	93		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	104		67-125		
Benzoic acid	170 U		170.	500	ug/kg	85		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	87		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	99		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	101		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	95		79-112		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	91		74-119		

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234858
Reported: 03/23/11 at 03:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chloroaniline	67	U	67.	170	ug/kg	72		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	89		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	78		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	89		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	89		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		79-110		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	79		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	91		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	96		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	90		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	82		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	91		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	101		75-117		
Fluoranthene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	101		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	97		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	92		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	91		64-119		
Isophorone	17	U	17.	170	ug/kg	89		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	88		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	93		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	83		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	100		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	72		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	80		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	103		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	98		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	88		51-117		
Phenanthrene	17	U	17.	170	ug/kg	94		77-113		
Phenol	17	U	17.	170	ug/kg	85		58-112		
Pyrene	17	U	17.	170	ug/kg	100		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	94		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	103		78-111		
Batch number: 11063SLA026	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	87		60-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234858
Reported: 03/23/11 at 03:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Anthracene	0.33	U	0.33	1.7	ug/kg	90		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	105		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	127		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	134		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	138		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	133		54-142		
Butylbenzylphthalate	6.2	J	6.0	18	ug/kg	116		65-131		
Di-n-butylphthalate	13	J	6.0	18	ug/kg	118		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	104		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	124		53-138		
Diethylphthalate	7.4	J	6.0	18	ug/kg	113		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	100		79-121		
Bis(2-Ethylhexyl)phthalate	11	J	6.0	18	ug/kg	131		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	98		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	94		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	133		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	79		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		55-118		
Di-n-octylphthalate	12	J	6.0	18	ug/kg	142		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	91		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	103		56-121		
Batch number: 110690014A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216884									
2,4-D	1.2	U	1.2	3.6	ug/kg	93		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	52		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	97		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	73		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	12		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	103		62-170		
MCPA	76	U	76.	250	ug/kg	80		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	64		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	90		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	82		68-114		
Batch number: 110600022A	Sample number(s): 6216871									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	98		85-115		
Batch number: 110600026A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216884									
Aldrin	0.066	U	0.066	0.17	ug/kg	94		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	130		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	103		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	130*		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	160*		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	129		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	175*		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	116		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	156*		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	148*		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	117		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	114		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	153*		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	95		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	106		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	155*		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	103		65-131		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234858
Reported: 03/23/11 at 03:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methoxychlor	0.34	U	0.34	1.7	ug/kg	174*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110610015A	Sample number(s): 6216870-6216871,6216873-6216874,6216879,6216881-6216890									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	75	65	36-106	14	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	91		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110660012A	Sample number(s): 6216880									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	71	78	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	106		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110661026002A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890									
Antimony	0.0600	U	0.0600	0.200	mg/kg	106		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	108		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	107		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	110		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	115		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	101		82-118		
Copper	0.113	J	0.0660	0.400	mg/kg	109		80-120		
Lead	0.0139	J	0.0104	0.200	mg/kg	103		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	113		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	109		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	105		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	110		78-122		
Batch number: 110661026002B	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890									
Selenium	0.0400	U	0.0400	0.400	mg/kg	110		79-122		
Batch number: 110661026002C	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890									
Molybdenum	0.0636	J	0.0500	0.100	mg/kg	114		78-122		
Batch number: 110661026002D	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890									
Barium	0.108	U	0.108	0.400	mg/kg	107		79-121		
Batch number: 110665708002	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890									
Aluminum	5.50	J	5.03	20.0	mg/kg	93		61-110		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234858
Reported: 03/23/11 at 03:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Boron	0.890	U	0.890	5.00	mg/kg	95		78-110		
Calcium	8.61	J	6.13	20.0	mg/kg	97		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	97		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		81-119		
Phosphorus	1.08	J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	93		78-110		
Sodium	37.3	U	37.3	100	mg/kg	98		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	103		79-121		
Tin	1.47	J	1.00	10.0	mg/kg	106		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	101		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	104		80-120		
Batch number: 110665711001	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890									
Mercury	0.0028	U	0.0028	0.0981	mg/kg	91		88-123		
Batch number: 11062243201A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 11066495201A	Sample number(s): 6216884-6216890									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11067495201A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216883									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	109		85-115		
Batch number: 11067621201A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216883									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
Batch number: 11067621201B	Sample number(s): 6216884-6216890									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
Batch number: 11060039401B	Sample number(s): 6216870-6216871,6216873									
18a pH by 9045C						99		95-105		
Batch number: 11060039402A	Sample number(s): 6216874,6216879-6216886									
18a pH by 9045C						100		95-105		
Batch number: 11060039402B	Sample number(s): 6216887-6216890									
18a pH by 9045C						100		95-105		
Batch number: 11060182101B	Sample number(s): 6216870-6216871,6216873									
32a OR Potential						99		98-102		
Batch number: 11060182102A	Sample number(s): 6216874,6216879-6216886									
32a OR Potential						99		98-102		
Batch number: 11060182102B	Sample number(s): 6216887-6216890									
32a OR Potential						99		98-102		
Batch number: 11066162401A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234858
Reported: 03/23/11 at 03:19 PM
Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11061SLD026	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890 UNSPK: P61LDUS								
Aniline	130*	145*	35-95	11	30				
Benzidine	15*	0*	35-141	200*	30				
Benzo(a)anthracene	91	97	65-122	6	30				
Benzo(a)pyrene	96	94	57-126	2	30				
Benzo(b)fluoranthene	94	97	59-125	3	30				
Benzo(g,h,i)perylene	95	88	59-127	8	30				
Benzo(k)fluoranthene	96	92	56-132	5	30				
Benzoic acid	0*	0*	10-173	0	30				
Benzyl alcohol	88	91	67-115	4	30				
4-Bromophenyl-phenylether	99	104	67-129	4	30				
Butylbenzylphthalate	76	69*	73-134	9	30				
Di-n-butylphthalate	95	90	67-123	4	30				
Carbazole	90	91	64-120	1	30				
4-Chloro-3-methylphenol	69*	65*	76-110	5	30				
4-Chloroaniline	112*	110*	23-95	1	30				
bis(2-Chloroethoxy)methane	87	85	75-104	3	30				
bis(2-Chloroethyl)ether	79	78	60-116	1	30				
bis(2-Chloroisopropyl)ether	96	96	55-142	0	30				
2-Chloronaphthalene	68	77	50-141	13	30				
2-Chlorophenol	78	71*	73-121	9	30				
4-Chlorophenyl-phenylether	96	97	80-109	0	30				
Chrysene	97	91	62-128	6	30				
Dibenzofuran	94	94	71-112	1	30				
1,2-Dichlorobenzene	88	87	66-108	1	30				
1,3-Dichlorobenzene	87	86	63-109	1	30				
1,4-Dichlorobenzene	86	86	70-100	1	30				
3,3'-Dichlorobenzidine	84	81	16-119	4	30				
2,4-Dichlorophenol	41*	42*	78-117	3	30				
Diethylphthalate	87	86	66-118	1	30				
2,4-Dimethylphenol	86	84	78-110	2	30				
3,5-Dimethylphenol	83	79	70-130	4	30				
4,6-Dinitro-2-methylphenol	13*	12*	24-116	1	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	4*	4*	73-113	15	30				
2,6-Dinitrotoluene	8*	6*	69-123	17	30				
1,2-Diphenylhydrazine	86	92	71-129	6	30				
bis(2-Ethylhexyl)phthalate	94	98	63-122	3	30				
Fluoranthene	97	95	73-112	2	30				
Hexachlorobenzene	98	103	77-114	5	30				
Hexachlorobutadiene	98	96	62-120	2	30				
Hexachlorocyclopentadiene	0*	0*	10-153	0	30				
Hexachloroethane	36*	27*	57-109	29	30				
Indeno(1,2,3-cd)pyrene	93	87	61-126	7	30				
Isophorone	87	87	73-102	0	30				
2-Methylphenol	83	83	75-111	0	30				
4-Methylphenol	75	73	71-111	3	30				
2-Nitroaniline	27*	23*	67-125	16	30				
3-Nitroaniline	26*	20*	59-122	28	30				
4-Nitroaniline	21*	18*	52-112	18	30				
Nitrobenzene	36*	23*	72-106	45*	30				
2-Nitrophenol	0*	8*	74-115	200*	30				
4-Nitrophenol	0*	0*	54-113	0	30				
N-Nitroso-di-n-propylamine	80	81	60-116	2	30				

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234858
Reported: 03/23/11 at 03:19 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodiphenylamine	96	98	86-145	2	30				
Di-n-octylphthalate	85	90	56-126	5	30				
Pentachlorophenol	0*	0*	28-127	0	30				
Phenanthrene	93	96	65-125	3	30				
Phenol	77	74	58-126	4	30				
Pyrene	98	101	74-126	2	30				
1,2,4-Trichlorobenzene	95	95	72-115	1	30				
2,4,5-Trichlorophenol	12*	13*	78-109	6	30				
2,4,6-Trichlorophenol	5*	5*	77-115	13	30				
Batch number: 11063SLA026	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890 UNSPK: 6216870								
Acenaphthene	102	105	63-105	3	30				
Acenaphthylene	102	108	67-114	6	30				
Anthracene	106	109	60-122	3	30				
Benzo(a)anthracene	104	105	59-128	1	30				
Benzo(a)pyrene	105	105	45-138	0	30				
Benzo(b)fluoranthene	149	157*	43-155	4	30				
Benzo(g,h,i)perylene	47	47	33-141	0	30				
Benzo(k)fluoranthene	120	123	42-144	2	30				
Butylbenzylphthalate	106	114	57-173	4	30				
Di-n-butylphthalate	96	101	65-148	3	30				
Chrysene	98	102	48-134	3	30				
Dibenz(a,h)anthracene	64	64	22-133	0	30				
Diethylphthalate	123	128	70-136	5	30				
Dimethylphthalate	122*	114	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	97	107	39-167	6	30				
Fluoranthene	127	126	26-166	1	30				
Fluorene	101	106	66-122	5	30				
Indeno(1,2,3-cd)pyrene	58	58	21-143	0	30				
1-Methylnaphthalene	101	102	72-123	1	30				
2-Methylnaphthalene	93	93	64-103	1	30				
Naphthalene	104*	106*	61-102	2	30				
N-Nitrosodimethylamine	107	106	48-113	1	30				
Di-n-octylphthalate	138	146	40-192	4	30				
Phenanthrene	101	103	12-165	2	30				
Pyrene	82	84	15-153	2	30				
Batch number: 110690014A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216884 UNSPK: 6216870								
2,4-D	82	98	17-180	18	35				
Dalapon	21	53	10-125	86*	50				
2,4-DB	112	128	10-201	13	50				
Dicamba	140	194*	10-190	32	50				
Dinoseb	6*	25	10-46	122*	35				
2,4-DP (Dichlorprop)	139	83	33-178	51*	50				
MCPA	131	92	10-213	17	50				
MCPP (Mecoprop)	0*	0*	10-184	0	50				
2,4,5-T	47	57	10-156	19	35				
2,4,5-TP	77	88	24-141	13	35				
Batch number: 110600022A	Sample number(s): 6216871 UNSPK: p213415								
6a Perchlorate EPA 6850	102	102	80-120	0	20				
Batch number: 110600026A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216884 UNSPK: 6216870								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234858
Reported: 03/23/11 at 03:19 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Aldrin	130*	130*	16-126	0	50				
Alpha BHC	76	73	10-129	4	50				
Beta BHC	100	97	14-147	3	50				
Gamma BHC - Lindane	97	94	10-140	3	50				
p,p-DDD	109	117	16-163	7	50				
p,p-DDE	178*	200*	18-161	13	50				
p,p-DDT	118	126	10-176	6	50				
Delta BHC	109	116	23-140	6	50				
Dieldrin	89	85	19-154	4	50				
Endosulfan I	64	73	16-137	13	50				
Endosulfan II	89	95	28-154	7	50				
Endosulfan Sulfate	120	82	21-160	38	50				
Endrin	94	97	11-149	3	50				
Endrin Aldehyde	88	94	10-148	8	35				
Endrin Ketone	102	106	22-165	4	50				
Heptachlor	103	103	13-126	3	50				
Heptachlor Epoxide	125	118	13-157	3	50				
Methoxychlor	95	97	32-147	2	50				
Batch number: 110610015A	Sample number(s): 6216870-6216871,6216873-6216874,6216879,6216881-6216890 UNSPK: 6216870								
PCB-1016	74	80	29-146	9	50				
PCB-1260	87	88	39-149	0	50				
Batch number: 110660012A	Sample number(s): 6216880 UNSPK: P217791								
PCB-1016	81	79	29-146	2	50				
PCB-1260	86	90	39-149	5	50				
Batch number: 110661026002A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890 UNSPK: 6216870 BKG: 6216870								
Antimony	43*	44*	75-125	1	20	0.189 J	0.0721 J	90* (1)	20
Arsenic	159*	119	75-125	12	20	3.99	2.92	31*	20
Beryllium	147*	118	75-125	16	20	0.544	0.370	38* (1)	20
Cadmium	139*	140*	75-125	1	20	0.278	0.165	51* (1)	20
Chromium	157*	102	75-125	18	20	18.5	13.7	30*	20
Cobalt	124	111	75-125	12	20	5.30	3.76	34*	20
Copper	131*	107	75-125	12	20	9.88	7.14	32*	20
Lead	204 (2)	91 (2)	75-125	17	20	15.1	14.1	7	20
Nickel	138*	108	75-125	14	20	11.1	7.94	33*	20
Silver	146*	133*	75-125	11	20	0.0372 J	0.0259 J	36* (1)	20
Thallium	149*	124	75-125	14	20	0.250	0.176	35* (1)	20
Vanadium	175*	97	75-125	17	20	34.0	24.6	32*	20
Zinc	210 (2)	31 (2)	75-125	15	20	104	80.0	26*	20
Batch number: 110661026002B	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890 UNSPK: 6216870 BKG: 6216870								
Selenium	121	110	75-125	11	20	0.119 J	0.105 J	12 (1)	20
Batch number: 110661026002C	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890 UNSPK: 6216870 BKG: 6216870								
Molybdenum	148*	135*	75-125	10	20	0.903	0.693	26*	20
Batch number: 110661026002D	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890 UNSPK: 6216870								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234858
Reported: 03/23/11 at 03:19 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
	BKG: 6216870								
Barium	195 (2)	19 (2)	75-125	16	20	98.6	68.5	36*	20
Batch number: 110665708002	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890 UNSPK: 6216870 BKG: 6216870								
Aluminum	1398 (2)	1387 (2)	75-125	1	20	10,100	10,600	5	20
Boron	98	97	84-115	4	20	5.34	4.93	8 (1)	20
Calcium	169 (2)	136 (2)	75-125	4	20	2,800	2,800	0	20
Iron	-57 (2)	-308 (2)	75-125	2	20	15,200	15,000	1	20
Lithium	104	103	82-114	4	20	16.5	16.6	1	20
Magnesium	169 (2)	109 (2)	75-125	4	20	3,350	3,340	0	20
Manganese	94 (2)	96 (2)	75-125	0	20	235	232	1	20
Phosphorus	72 (2)	52 (2)	75-125	4	20	509	488	4	20
Potassium	107	98	75-125	3	20	3,200	3,220	1	20
Sodium	101	102	75-125	3	20	52.0 J	51.4 J	1 (1)	20
Strontium	99	98	75-115	4	20	16.5	16.2	2	20
Tin	96	96	80-110	4	20	2.39 J	2.34 J	2 (1)	20
Titanium	304 (2)	263 (2)	75-125	4	20	893	925	4	20
Zirconium	95	94	75-125	4	20	4.46 J	4.34 J	3 (1)	20
Batch number: 110665711001	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890 UNSPK: 6216870 BKG: 6216870								
Mercury	94	95	65-135	1	20	0.0044 J	0.0028 U	200* (1)	20
Batch number: 11062243201A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890 UNSPK: 6216886 BKG: 6216886								
3a Cr VI by EPA 7199	93		75-125			0.35 J	0.43 J	21* (1)	20
Batch number: 11066495201A	Sample number(s): 6216884-6216890 UNSPK: P217791 BKG: P217791								
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11067495201A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216883 UNSPK: 6216870 BKG: 6216870								
7a Perchlorate EPA 314.0	107		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11067621201A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216883 UNSPK: 6216870 BKG: 6216870								
11a Anions by 300.0 - Fluoride	70*		80-120			0.91 J	0.80 U	200* (1)	20
Batch number: 11067621201B	Sample number(s): 6216884-6216890 UNSPK: 6216884 BKG: 6216884								
11a Anions by 300.0 - Fluoride	57*		80-120			1.9	1.8	4 (1)	20
Batch number: 11060039401B	Sample number(s): 6216870-6216871,6216873 BKG: P216208								
18a pH by 9045C						7.05	7.15	1	1
Batch number: 11060039402A	Sample number(s): 6216874,6216879-6216886 BKG: 6216885								
18a pH by 9045C						6.31	6.31	0	1
Batch number: 11060039402B	Sample number(s): 6216887-6216890 BKG: 6216890								
18a pH by 9045C						5.93	6.01	1	1

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11060182101B	Sample number(s): 6216870-6216871,6216873 BKG: P216208								
32a OR Potential						289	296	2	6
Batch number: 11060182102A	Sample number(s): 6216874,6216879-6216886 BKG: 6216885								
32a OR Potential						502	493	2	6
Batch number: 11060182102B	Sample number(s): 6216887-6216890 BKG: 6216890								
32a OR Potential						479	486	1	6
Batch number: 11066162401A	Sample number(s): 6216870-6216871,6216873-6216874,6216879-6216890 BKG: P214520								
Moisture Content by 160.3						10.6	10.1	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110592AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6216885	97	98	100	94
6216886	98	101	99	95
6216888	98	103	98	95
6216889	97	99	99	94
Blank	99	101	96	93
LCS	100	106	101	97
LCSD	101	107	101	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110591AA

	Toluene-d8
6216891	98
Blank	98
LCS	98
LCSD	98
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110592AA

	Toluene-d8
6216885	96
6216886	96
6216888	96
6216889	96

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Quality Control Summary

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Reported: 03/23/11 at 03:19 PM

Surrogate Quality Control

Blank	97
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110591AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6216891	102	100	104	101
Blank	102	100	102	100
LCS	103	103	102	100
LCSD	103	103	103	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11061SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6216870	83	87	96	80	92	76
6216871	79	83	90	76	86	83
6216873	85	88	98	80	92	85
6216874	83	87	94	79	91	85
6216879	81	84	92	76	86	84
6216880	82	86	90	78	88	81
6216881	84	87	94	79	91	81
6216882	82	88	92	79	91	80
6216883	80	85	91	78	89	78
6216884	80	85	92	79	89	82
6216885	78	82	91	77	90	81
6216886	76	81	88	76	88	79
6216887	78	81	84	74	88	78
6216888	78	81	88	76	86	80
6216889	79	84	92	79	91	85
6216890	83	88	91	80	92	85
Blank	81	86	88	83	91	89
LCS	81	85	89	80	90	88
MS	72	61	3*	35*	89	86
MSD	69	65	3*	22*	91	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11063SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6216870	111	100	81
6216871	86	80	85
6216873	107	96	81
6216874	91	84	91
6216879	93	80	90
6216880	93	85	95
6216881	99	88	101
6216882	110	97	90
6216883	108	95	75

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Surrogate Quality Control

6216884	106	93	76
6216885	91	86	109
6216886	92	65	104
6216887	91	87	108
6216888	87	83	103
6216889	91	84	105
6216890	95	87	108
Blank	93	88	108
LCS	105	86	100
MS	128	99	86
MSD	125	102	88
Limits:	40-130	45-130	45-135

Analysis Name: 12a Pesticides by 8081A
Batch number: 110600026A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6216870	90	97
6216871	93	95
6216873	94	95
6216874	89	69
6216879	77	66
6216880	96	77
6216881	94	79
6216882	91	86
6216883	83	94
6216884	100	91
Blank	90	122*
LCS	89	117
MS	87	98
MSD	91	98
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110610015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6216870	75	102
6216871	72	82
6216873	107	107
6216874	76	98
6216879	99	99
6216881	117	105
6216882	87	88
6216883	131	119
6216884	104	111
6216885	193*	174*
6216886	86	99
6216887	93	62
6216888	92	108
6216889	104	93
6216890	93	103
Blank	93	96
LCS	94	94
LCSD	84	87
MS	62	101

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Quality Control Summary

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Reported: 03/23/11 at 03:19 PM

Surrogate Quality Control

MSD	69	103
Limits:	53-139	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110660012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6216880	103	106
Blank	87	107
LCS	92	104
LCSD	81	103
MS	85	89
MSD	78	90
Limits:	53-139	53-142

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110690014A

	2,4-Dichlorophenylacetic acid
6216870	113
6216871	71
6216873	101
6216874	93
6216879	94
6216880	80
6216881	87
6216882	96
6216883	100
6216884	92
Blank	85
LCS	86
MS	140
MSD	120
Limits:	36-156

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accr#13013 Lap# 1234555 1234858 Sample # G216870-91

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Amended COC
SL-126-SA5A-SS-0.0-0.5	2.25.11	0850	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	SL-131 & SL-134
SL-126-SA5A-SS-0.0-0.5	2.25.11	0850	SOIL	NONE	1-6 inch sleeve			X	X							were voided per
SL-127-SA5A-SS-0.0-0.5	2.25.11	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	PB. NLM 3/2/11
SL-127-SA5A-SS-0.0-0.5	2.25.11	0905	SOIL	NONE	1-6 inch sleeve			X	X							
~~SL-131-SA5A-SS-0.0-0.5~~	~~2.25.11~~	~~1025~~	~~SOIL~~	~~NONE~~	~~1-16 oz jar~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	
~~SL-131-SA5A-SS-0.0-0.5~~	~~2.25.11~~	~~1025~~	~~SOIL~~	~~NONE~~	~~1-6 inch sleeve~~			~~X~~	~~X~~							
SL-132-SA5A-SS-0.0-0.5	2.25.11	0920	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-132-SA5A-SS-0.0-0.5	2.25.11	0920	SOIL	NONE	1-6 inch sleeve			X	X							
SL-133-SA5A-SS-0.0-0.5	2.25.11	1000	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-133-SA5A-SS-0.0-0.5	2.25.11	1000	SOIL	NONE	1-6 inch sleeve			X	X							
~~SL-134-SA5A-SS-0.0-0.5~~	~~2.25.11~~	~~1009~~	~~SOIL~~	~~NONE~~	~~2-16 oz jars~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	MS/MSD sample
~~SL-134-SA5A-SS-0.0-0.5~~	~~2.25.11~~	~~1009~~	~~SOIL~~	~~NONE~~	~~2-6 inch sleeves~~			~~X~~	~~X~~							MS/MSD sample
SL-144-SA5A-SS-0.0-0.5	2.25.11	1105	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-144-SA5A-SS-0.0-0.5	2.25.11	1105	SOIL	NONE	1-6 inch sleeve			X	X							
SL-146-SA5A-SS-0.0-0.5	2.25.11	1045	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-146-SA5A-SS-0.0-0.5	2.25.11	1045	SOIL	NONE	1-6 inch sleeve			X	X							
SL-171-SA5A-SS-0.0-0.5	2.25.11	1310	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-171-SA5A-SS-0.0-0.5	2.25.11	1310	SOIL	NONE	1-6 inch sleeve			X	X							
SL-172-SA5A-SS-0.0-0.5	2.25.11	1345	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-172-SA5A-SS-0.0-0.5	2.25.11	1345	SOIL	NONE	1-6 inch sleeve			X	X							
SL-173-SA5A-SS-0.0-0.5	2.25.11	1325	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-173-SA5A-SS-0.0-0.5	2.25.11	1325	SOIL	NONE	1-6 inch sleeve			X	X							
SL-174-SA5A-SS-0.0-0.5	2.25.11	1410	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-174-SA5A-SS-0.0-0.5	2.25.11	1410	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (*Signature*)	Date/Time 02/25/2011 / 17:00	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 2/26/11 0900	Airbill No.(s) 8695 1432 6595 8695 1432 6600	

acct# 13013 Cp# 1234858 Sample# 6216870-91

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers													
SL-053-SA5A-SB-3.0-4.0	2.25.11	0928	SOIL	NONE	2-16 oz. jars		X	X	X	X	X	X	X					
SL-053-SA5A-SB-3.5	2.25.11	0925	SOIL	NONE	4-Encores										X	X		
SL-054-SA5A-SB-4.0-5.0	2.25.11	1125	SOIL	NONE	2-16 oz. jars		X	X	X	X	X	X	X					
SL-054-SA5A-SB-4.5	2.25.11	1123	SOIL	NONE	4-Encores										X	X		
SL-054-SA5A-SB-9.0-10.0	2.25.11	1130	SOIL	NONE	2-16 oz. jars		X	X	X	X	X	X	X					
SL-055-SA5A-SB-2.0-3.0	2.25.11	1238	SOIL	NONE	2-16 oz. jars		X	X	X	X	X	X	X					
SL-055-SA5A-SB-2.5	2.25.11	1235	SOIL	NONE	4-Encores										X	X		
SL-056-SA5A-SB-4.0-5.0	2.25.11	1543	SOIL	NONE	2-16 oz. jars		X	X	X	X	X	X	X					
SL-056-SA5A-SB-4.5	2.25.11	1540	SOIL	NONE	4-Encores										X	X		
SL-056-SA5A-SB-7.0-8.0	2.25.11	1547	SOIL	NONE	2-16 oz. jars		X	X	X	X	X	X	X					
TB-022511	2.25.11	1630	WATER	HCl	3-40 mL VOA VIALS										X	X		TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 02/25/2011 / 17:00		Received for Laboratory by: (*Signature*)															Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 2/25/11 0956		Airbill No.(s) 8695 1432 6595 8695 1432 6600															

Nicole Maljovec A# 13013 / 12348558 / G216870-91

From: Nicole Maljovec
Sent: Monday, February 28, 2011 2:22 PM
To: 'Bloisa, Peggy'
Subject: RE: Do not analyze samples submitted on COC for 2/25/2011

Oh, that's never good having to fill two roles!

I can void these right now. Unfortunately there is nothing you can do to replace the QC for the work. The groups are capped at 20 samples to make full batches and if you did submit more QC, it's going to throw off the way the EDDs have been set up.

The best thing for us would be to leave SL-134, but I understand that you have to follow your sampling plan. These groups will just have batch QC instead of site specific QC.

Thanks,
Nicole

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Monday, February 28, 2011 12:55 PM
To: Nicole Maljovec
Subject: Do not analyze samples submitted on COC for 2/25/2011
Importance: High

Hi Nicole – Last week was awful! Pam Hartman, the geologist that's been working on the subsurface sampling rig got sick and was out Thursday and Friday and I tried filling in as the surface sampler AND the sample manager and failed miserably!

I collected a couple of samples that we have excluded from our chemical sampling plan, so the following samples should not be analyzed (and wouldn't you know it, one of them was the double volume sample that I collected):

SL-131-SA5A-SS-0.0-0.5 and
SL-134-SA5A-SS-0.0-0.5.

How would you like us to make up for the missing MS/MSD samples?

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Office Phone and Fax: (925) 296-8053| SSFL Phone (818) 466-8007

Please consider the environment before printing this email.

acct#13013 Ap# 1234858 sample# 6216870-91

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS								SS ONLY		
SL-126-SA5A-SS-0.0-0.5	2.25.11	0850	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-126-SA5A-SS-0.0-0.5	2.25.11	0850	SOIL	NONE	1-6 inch sleeve			X	X							
SL-127-SA5A-SS-0.0-0.5	2.25.11	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-127-SA5A-SS-0.0-0.5	2.25.11	0905	SOIL	NONE	1-6 inch sleeve			X	X							
SL-131-SA5A-SS-0.0-0.5	2.25.11	1025	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-131-SA5A-SS-0.0-0.5	2.25.11	1025	SOIL	NONE	1-6 inch sleeve			X	X							
SL-132-SA5A-SS-0.0-0.5	2.25.11	0920	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-132-SA5A-SS-0.0-0.5	2.25.11	0920	SOIL	NONE	1-6 inch sleeve			X	X							
SL-133-SA5A-SS-0.0-0.5	2.25.11	1000	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-133-SA5A-SS-0.0-0.5	2.25.11	1000	SOIL	NONE	1-6 inch sleeve			X	X							
SL-134-SA5A-SS-0.0-0.5	2.25.11	1009	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	MS/MSD sample
SL-134-SA5A-SS-0.0-0.5	2.25.11	1009	SOIL	NONE	2-6 inch sleeves			X	X							MS/MSD sample
SL-144-SA5A-SS-0.0-0.5	2.25.11	1105	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-144-SA5A-SS-0.0-0.5	2.25.11	1105	SOIL	NONE	1-6 inch sleeve			X	X							
SL-146-SA5A-SS-0.0-0.5	2.25.11	1045	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-146-SA5A-SS-0.0-0.5	2.25.11	1045	SOIL	NONE	1-6 inch sleeve			X	X							
SL-171-SA5A-SS-0.0-0.5	2.25.11	1310	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-171-SA5A-SS-0.0-0.5	2.25.11	1310	SOIL	NONE	1-6 inch sleeve			X	X							
SL-172-SA5A-SS-0.0-0.5	2.25.11	1345	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-172-SA5A-SS-0.0-0.5	2.25.11	1345	SOIL	NONE	1-6 inch sleeve			X	X							
SL-173-SA5A-SS-0.0-0.5	2.25.11	1325	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-173-SA5A-SS-0.0-0.5	2.25.11	1325	SOIL	NONE	1-6 inch sleeve			X	X							
SL-174-SA5A-SS-0.0-0.5	2.25.11	1410	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-174-SA5A-SS-0.0-0.5	2.25.11	1410	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (*Signature*)	Date/Time 02/25/2011 / 17:00	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8695 1432 6595 8695 1432 6600	

acct#13013 Qp#1234858 Sample# 6216870-91

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8250SIM $	TPH-GRO EPA 8015B $	
Samplers Signatures:																	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
SL-053-SA5A-SB-3.0-4.0	2.25.11	0928	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-053-SA5A-SB-3.5	2.25.11	0925	SOIL	NONE	4-Encores									X	X		
SL-054-SA5A-SB-4.0-5.0	2.25.11	1125	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-054-SA5A-SB-4.5	2.25.11	1123	SOIL	NONE	4-Encores									X	X		
SL-054-SA5A-SB-9.0-10.0	2.25.11	1130	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-055-SA5A-SB-2.0-3.0	2.25.11	1238	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-055-SA5A-SB-2.5	2.25.11	1235	SOIL	NONE	4-Encores									X	X		
SL-056-SA5A-SB-4.0-5.0	2.25.11	1543	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-056-SA5A-SB-4.5	2.25.11	1540	SOIL	NONE	4-Encores									X	X		
SL-056-SA5A-SB-7.0-8.0	2.25.11	1547	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
TB-022511	2.25.11	1630	WATER	HCl	3-40 mL VOA VIALS									X	X		TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 02/25/2011 / 17:00		Received for Laboratory by: (*Signature*)														Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8695 1432 6595 8695 1432 6600														

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/26/2011
Group Number: 1234860
SDG: DX057
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-126-SA5A-SS-0.0-0.5 Soil	6216911
SL-127-SA5A-SS-0.0-0.5 Soil	6216912
SL-132-SA5A-SS-0.0-0.5 Soil	6216914
SL-133-SA5A-SS-0.0-0.5 Soil	6216915
SL-144-SA5A-SS-0.0-0.5 Soil	6216919
SL-146-SA5A-SS-0.0-0.5 Soil	6216920
SL-171-SA5A-SS-0.0-0.5 Soil	6216921
SL-172-SA5A-SS-0.0-0.5 Soil	6216922
SL-173-SA5A-SS-0.0-0.5 Soil	6216923
SL-174-SA5A-SS-0.0-0.5 Soil	6216924
SL-053-SA5A-SB-3.0-4.0 Soil	6216925
SL-054-SA5A-SB-4.0-5.0 Soil	6216926
SL-054-SA5A-SB-9.0-10.0 Soil	6216927
SL-055-SA5A-SB-2.0-3.0 Soil	6216928
SL-056-SA5A-SB-4.0-5.0 Soil	6216929
SL-056-SA5A-SB-7.0-8.0 Soil	6216930

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-126-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SS-0.0-0.5

LLI Sample # SW 6216911
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 08:50

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX057-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SS-0.0-0.5

LLI Sample # SW 6216911
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 08:50

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX057-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0584	JQ	0.0226	1.20	1
11031	12378-PeCDD	40321-76-4	0.364	JB	0.0305	6.00	1
11031	123478-HxCDD	39227-28-6	0.541	JB	0.0640	6.00	1
11031	123678-HxCDD	57653-85-7	1.64	JB	0.0598	6.00	1
11031	123789-HxCDD	19408-74-3	1.28	JB	0.0483	6.00	1
11031	1234678-HpCDD	35822-46-9	40.0	B	0.0679	6.00	1
11031	OCDD	3268-87-9	651	B	0.0564	12.0	1
11031	2378-TCDF	51207-31-9	0.400	JB	0.0592	1.20	1
11031	12378-PeCDF	57117-41-6	0.393	JBQ	0.0369	6.00	1
11031	23478-PeCDF	57117-31-4	1.01	JB	0.0383	6.00	1
11031	123478-HxCDF	70648-26-9	1.36	JB	0.0836	6.00	1
11031	123678-HxCDF	57117-44-9	0.802	JB	0.0603	6.00	1
11031	123789-HxCDF	72918-21-9	0.828	JB	0.0421	6.00	1
11031	234678-HxCDF	60851-34-5	1.00	JB	0.0376	6.00	1
11031	1234678-HpCDF	67562-39-4	9.75	B	0.0517	6.00	1
11031	1234789-HpCDF	55673-89-7	0.829	JB	0.0385	6.00	1
11031	OCDF	39001-02-0	16.9	B	0.0366	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-126-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SS-0.0-0.5

LLI Sample # SW 6216911
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 08:50

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX057-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-126-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SS-0.0-0.5

LLI Sample # SW 6216911
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 08:50

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX057-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/08/2011 22:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-127-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SS-0.0-0.5

LLI Sample # SW 6216912
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:05

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5702 SDG#: DX057-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-127-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SS-0.0-0.5

LLI Sample # SW 6216912
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:05

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5702 SDG#: DX057-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0734	JQ	0.0209	1.16	1
11031	12378-PeCDD	40321-76-4	0.509	JB	0.0392	5.80	1
11031	123478-HxCDD	39227-28-6	1.12	JB	0.0602	5.80	1
11031	123678-HxCDD	57653-85-7	2.82	JB	0.0594	5.80	1
11031	123789-HxCDD	19408-74-3	2.11	JB	0.0604	5.80	1
11031	1234678-HpCDD	35822-46-9	82.6	B	0.0878	5.80	1
11031	OCDD	3268-87-9	1,470	B	0.0616	11.6	1
11031	2378-TCDF	51207-31-9	0.193	JBQ	0.0383	1.16	1
11031	12378-PeCDF	57117-41-6	0.311	JB	0.0265	5.80	1
11031	23478-PeCDF	57117-31-4	0.687	JB	0.0266	5.80	1
11031	123478-HxCDF	70648-26-9	1.70	JB	0.0589	5.80	1
11031	123678-HxCDF	57117-44-9	1.06	JB	0.0469	5.80	1
11031	123789-HxCDF	72918-21-9	0.969	JB	0.0494	5.80	1
11031	234678-HxCDF	60851-34-5	1.48	JB	0.0392	5.80	1
11031	1234678-HpCDF	67562-39-4	19.9	B	0.0375	5.80	1
11031	1234789-HpCDF	55673-89-7	1.80	JB	0.0434	5.80	1
11031	OCDF	39001-02-0	32.6	B	0.0333	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-127-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SS-0.0-0.5

LLI Sample # SW 6216912
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:05

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5702 SDG#: DX057-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-127-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SS-0.0-0.5

LLI Sample # SW 6216912
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:05

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5702 SDG#: DX057-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/08/2011 23:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-132-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SS-0.0-0.5

LLI Sample # SW 6216914
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:20

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5704 SDG#: DX057-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SS-0.0-0.5

LLI Sample # SW 6216914
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:20

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5704 SDG#: DX057-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0174	U	0.0174	1.13	1
11031	12378-PeCDD	40321-76-4	0.136	JB	0.0215	5.66	1
11031	123478-HxCDD	39227-28-6	0.229	JB	0.0414	5.66	1
11031	123678-HxCDD	57653-85-7	1.12	JB	0.0424	5.66	1
11031	123789-HxCDD	19408-74-3	0.532	JB	0.0397	5.66	1
11031	1234678-HpCDD	35822-46-9	30.6	B	0.0555	5.66	1
11031	OCDD	3268-87-9	457	B	0.0420	11.3	1
11031	2378-TCDF	51207-31-9	0.0656	JBQ	0.0251	1.13	1
11031	12378-PeCDF	57117-41-6	0.124	JB	0.0170	5.66	1
11031	23478-PeCDF	57117-31-4	0.341	JB	0.0170	5.66	1
11031	123478-HxCDF	70648-26-9	0.558	JB	0.0359	5.66	1
11031	123678-HxCDF	57117-44-9	0.398	JBQ	0.0299	5.66	1
11031	123789-HxCDF	72918-21-9	0.411	JB	0.0313	5.66	1
11031	234678-HxCDF	60851-34-5	0.584	JB	0.0277	5.66	1
11031	1234678-HpCDF	67562-39-4	7.89	B	0.0281	5.66	1
11031	1234789-HpCDF	55673-89-7	0.590	JB	0.0307	5.66	1
11031	OCDF	39001-02-0	17.9	B	0.0269	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	96	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-132-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SS-0.0-0.5

LLI Sample # SW 6216914
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:20

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5704 SDG#: DX057-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-132-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SS-0.0-0.5

LLI Sample # SW 6216914
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:20

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5704 SDG#: DX057-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 00:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-133-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SS-0.0-0.5

LLI Sample # SW 6216915
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:00

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5705 SDG#: DX057-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-133-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SS-0.0-0.5

LLI Sample # SW 6216915
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:00

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5705 SDG#: DX057-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0316	J	0.0200	1.13	1
11031	12378-PeCDD	40321-76-4	0.271	JB	0.0314	5.67	1
11031	123478-HxCDD	39227-28-6	0.546	JB	0.0461	5.67	1
11031	123678-HxCDD	57653-85-7	1.42	JB	0.0475	5.67	1
11031	123789-HxCDD	19408-74-3	1.17	JB	0.0450	5.67	1
11031	1234678-HpCDD	35822-46-9	37.8	B	0.0690	5.67	1
11031	OCDD	3268-87-9	653	B	0.0471	11.3	1
11031	2378-TCDF	51207-31-9	0.0523	JBQ	0.0261	1.13	1
11031	12378-PeCDF	57117-41-6	0.162	JBQ	0.0183	5.67	1
11031	23478-PeCDF	57117-31-4	0.254	JB	0.0186	5.67	1
11031	123478-HxCDF	70648-26-9	0.792	JB	0.0345	5.67	1
11031	123678-HxCDF	57117-44-9	0.387	JBQ	0.0303	5.67	1
11031	123789-HxCDF	72918-21-9	0.542	JB	0.0338	5.67	1
11031	234678-HxCDF	60851-34-5	0.523	JB	0.0293	5.67	1
11031	1234678-HpCDF	67562-39-4	8.75	B	0.0237	5.67	1
11031	1234789-HpCDF	55673-89-7	0.765	JB	0.0280	5.67	1
11031	OCDF	39001-02-0	14.4	B	0.0270	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-133-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SS-0.0-0.5

LLI Sample # SW 6216915
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:00

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5705 SDG#: DX057-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SS-0.0-0.5

LLI Sample # SW 6216915
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:00

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5705 SDG#: DX057-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 01:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SS-0.0-0.5

LLI Sample # SW 6216919
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:05

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5707 SDG#: DX057-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-144-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SS-0.0-0.5

LLI Sample # SW 6216919
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:05

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5707 SDG#: DX057-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0209	U	0.0209	1.14	1
11031	12378-PeCDD	40321-76-4	0.133	JBQ	0.0214	5.70	1
11031	123478-HxCDD	39227-28-6	0.296	JB	0.0497	5.70	1
11031	123678-HxCDD	57653-85-7	0.752	JB	0.0503	5.70	1
11031	123789-HxCDD	19408-74-3	0.511	JB	0.0487	5.70	1
11031	1234678-HpCDD	35822-46-9	23.7	B	0.0583	5.70	1
11031	OCDD	3268-87-9	394	B	0.0482	11.4	1
11031	2378-TCDF	51207-31-9	0.0503	JB	0.0223	1.14	1
11031	12378-PeCDF	57117-41-6	0.105	JBQ	0.0192	5.70	1
11031	23478-PeCDF	57117-31-4	0.136	JBQ	0.0185	5.70	1
11031	123478-HxCDF	70648-26-9	0.548	JB	0.0442	5.70	1
11031	123678-HxCDF	57117-44-9	0.231	JB	0.0382	5.70	1
11031	123789-HxCDF	72918-21-9	0.191	JB	0.0418	5.70	1
11031	234678-HxCDF	60851-34-5	0.235	JBQ	0.0382	5.70	1
11031	1234678-HpCDF	67562-39-4	4.43	JB	0.0226	5.70	1
11031	1234789-HpCDF	55673-89-7	0.416	JBQ	0.0335	5.70	1
11031	OCDF	39001-02-0	8.41	JB	0.0307	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-144-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SS-0.0-0.5

LLI Sample # SW 6216919
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:05

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5707 SDG#: DX057-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SS-0.0-0.5

LLI Sample # SW 6216919
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:05

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5707 SDG#: DX057-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 02:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-146-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SS-0.0-0.5

LLI Sample # SW 6216920
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:45

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5708 SDG#: DX057-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-146-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SS-0.0-0.5

LLI Sample # SW 6216920
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:45

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5708 SDG#: DX057-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.225 J	0.0323	1.15	1
11031	12378-PeCDD	40321-76-4	3.07 JB	0.0812	5.73	1
11031	123478-HxCDD	39227-28-6	9.07 B	0.146	5.73	1
11031	123678-HxCDD	57653-85-7	23.1 B	0.150	5.73	1
11031	123789-HxCDD	19408-74-3	12.0 B	0.147	5.73	1
11031	1234678-HpCDD	35822-46-9	568 B	0.192	5.73	1
11031	OCDD	3268-87-9	11,500 EB	0.144	11.5	1
11031	2378-TCDF	51207-31-9	0.180 JB	0.0461	1.15	1
11031	12378-PeCDF	57117-41-6	1.68 JB	0.0423	5.73	1
11031	23478-PeCDF	57117-31-4	3.26 JB	0.0428	5.73	1
11031	123478-HxCDF	70648-26-9	14.6 B	0.103	5.73	1
11031	123678-HxCDF	57117-44-9	8.83 B	0.0890	5.73	1
11031	123789-HxCDF	72918-21-9	8.32 B	0.103	5.73	1
11031	234678-HxCDF	60851-34-5	10.0 B	0.0914	5.73	1
11031	1234678-HpCDF	67562-39-4	211 B	0.0846	5.73	1
11031	1234789-HpCDF	55673-89-7	15.7 B	0.0909	5.73	1
11031	OCDF	39001-02-0	301 B	0.0460	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	101	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	105	24 - 185
13C12-23478-PeCDF	101	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	81	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: **SL-146-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SS-0.0-0.5

LLI Sample # SW 6216920
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:45

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5708 SDG#: DX057-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-146-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SS-0.0-0.5

LLI Sample # SW 6216920
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 10:45

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5708 SDG#: DX057-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 03:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-171-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SS-0.0-0.5

LLI Sample # SW 6216921
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:10

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5709 SDG#: DX057-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-171-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SS-0.0-0.5

LLI Sample # SW 6216921
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:10

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5709 SDG#: DX057-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.02	J	0.0272	1.14	1
11031	12378-PeCDD	40321-76-4	0.139	JBQ	0.0335	5.68	1
11031	123478-HxCDD	39227-28-6	0.181	JB	0.0427	5.68	1
11031	123678-HxCDD	57653-85-7	0.545	JB	0.0451	5.68	1
11031	123789-HxCDD	19408-74-3	0.521	JB	0.0427	5.68	1
11031	1234678-HpCDD	35822-46-9	9.79	B	0.0322	5.68	1
11031	OCDD	3268-87-9	119	B	0.0312	11.4	1
11031	2378-TCDF	51207-31-9	0.109	JB	0.0379	1.14	1
11031	12378-PeCDF	57117-41-6	0.135	JB	0.0230	5.68	1
11031	23478-PeCDF	57117-31-4	0.250	JB	0.0233	5.68	1
11031	123478-HxCDF	70648-26-9	0.390	JB	0.0325	5.68	1
11031	123678-HxCDF	57117-44-9	0.0982	JB	0.0289	5.68	1
11031	123789-HxCDF	72918-21-9	0.171	JB	0.0356	5.68	1
11031	234678-HxCDF	60851-34-5	0.115	JBQ	0.0309	5.68	1
11031	1234678-HpCDF	67562-39-4	1.30	JB	0.0177	5.68	1
11031	1234789-HpCDF	55673-89-7	0.139	JBQ	0.0247	5.68	1
11031	OCDF	39001-02-0	3.59	JB	0.0303	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-171-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SS-0.0-0.5

LLI Sample # SW 6216921
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:10

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5709 SDG#: DX057-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-171-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SS-0.0-0.5

LLI Sample # SW 6216921
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:10

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5709 SDG#: DX057-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 07:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SS-0.0-0.5

LLI Sample # SW 6216922
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:45

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5710 SDG#: DX057-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-172-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SS-0.0-0.5

LLI Sample # SW 6216922
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:45

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5710 SDG#: DX057-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0869	JQ	0.0212	1.13	1
11031	12378-PeCDD	40321-76-4	0.192	JB	0.0262	5.63	1
11031	123478-HxCDD	39227-28-6	0.245	JB	0.0400	5.63	1
11031	123678-HxCDD	57653-85-7	0.832	JB	0.0425	5.63	1
11031	123789-HxCDD	19408-74-3	0.650	JB	0.0412	5.63	1
11031	1234678-HpCDD	35822-46-9	26.4	B	0.0546	5.63	1
11031	OCDD	3268-87-9	301	B	0.0455	11.3	1
11031	2378-TCDF	51207-31-9	0.179	JBQ	0.0617	1.13	1
11031	12378-PeCDF	57117-41-6	0.823	JB	0.0426	5.63	1
11031	23478-PeCDF	57117-31-4	0.737	JB	0.0413	5.63	1
11031	123478-HxCDF	70648-26-9	2.15	JB	0.0547	5.63	1
11031	123678-HxCDF	57117-44-9	0.334	JB	0.0473	5.63	1
11031	123789-HxCDF	72918-21-9	0.212	JB	0.0524	5.63	1
11031	234678-HxCDF	60851-34-5	0.329	JB	0.0447	5.63	1
11031	1234678-HpCDF	67562-39-4	3.91	JB	0.0209	5.63	1
11031	1234789-HpCDF	55673-89-7	0.269	JBQ	0.0243	5.63	1
11031	OCDF	39001-02-0	12.3	B	0.0280	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SS-0.0-0.5

LLI Sample # SW 6216922
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:45

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5710 SDG#: DX057-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SS-0.0-0.5

LLI Sample # SW 6216922
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:45

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5710 SDG#: DX057-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 08:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-173-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5A-SS-0.0-0.5

LLI Sample # SW 6216923
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:25

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5711 SDG#: DX057-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-173-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5A-SS-0.0-0.5

LLI Sample # SW 6216923
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:25

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5711 SDG#: DX057-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	3.34		0.0281	1.14	1
11031	12378-PeCDD	40321-76-4	0.294	JBQ	0.0252	5.68	1
11031	123478-HxCDD	39227-28-6	0.227	JB	0.0471	5.68	1
11031	123678-HxCDD	57653-85-7	0.737	JB	0.0415	5.68	1
11031	123789-HxCDD	19408-74-3	0.646	JB	0.0397	5.68	1
11031	1234678-HpCDD	35822-46-9	22.2	B	0.0342	5.68	1
11031	OCDD	3268-87-9	217	B	0.0405	11.4	1
11031	2378-TCDF	51207-31-9	0.254	JB	0.0635	1.14	1
11031	12378-PeCDF	57117-41-6	0.247	JB	0.0329	5.68	1
11031	23478-PeCDF	57117-31-4	0.672	JB	0.0328	5.68	1
11031	123478-HxCDF	70648-26-9	0.504	JB	0.0536	5.68	1
11031	123678-HxCDF	57117-44-9	0.290	JB	0.0405	5.68	1
11031	123789-HxCDF	72918-21-9	0.167	JBQ	0.0312	5.68	1
11031	234678-HxCDF	60851-34-5	0.241	JB	0.0274	5.68	1
11031	1234678-HpCDF	67562-39-4	2.40	JB	0.0245	5.68	1
11031	1234789-HpCDF	55673-89-7	0.213	JB	0.0183	5.68	1
11031	OCDF	39001-02-0	4.88	JB	0.0220	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-173-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5A-SS-0.0-0.5

LLI Sample # SW 6216923
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:25

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5711 SDG#: DX057-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-173-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5A-SS-0.0-0.5

LLI Sample # SW 6216923
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 13:25

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5711 SDG#: DX057-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 08:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-174-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SS-0.0-0.5

LLI Sample # SW 6216924
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 14:10

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5712 SDG#: DX057-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-174-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SS-0.0-0.5

LLI Sample # SW 6216924
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 14:10

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5712 SDG#: DX057-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0642	J	0.0181	1.18	1
11031	12378-PeCDD	40321-76-4	0.127	JB	0.0214	5.91	1
11031	123478-HxCDD	39227-28-6	0.125	JB	0.0385	5.91	1
11031	123678-HxCDD	57653-85-7	0.621	JB	0.0395	5.91	1
11031	123789-HxCDD	19408-74-3	0.604	JBQ	0.0392	5.91	1
11031	1234678-HpCDD	35822-46-9	15.0	B	0.0336	5.91	1
11031	OCDD	3268-87-9	130	B	0.0358	11.8	1
11031	2378-TCDF	51207-31-9	0.0260	U	0.0260	1.18	1
11031	12378-PeCDF	57117-41-6	0.0501	JB	0.0193	5.91	1
11031	23478-PeCDF	57117-31-4	0.123	JB	0.0188	5.91	1
11031	123478-HxCDF	70648-26-9	0.334	JBQ	0.0336	5.91	1
11031	123678-HxCDF	57117-44-9	0.0809	JB	0.0255	5.91	1
11031	123789-HxCDF	72918-21-9	0.180	JB	0.0258	5.91	1
11031	234678-HxCDF	60851-34-5	0.0999	JB	0.0221	5.91	1
11031	1234678-HpCDF	67562-39-4	0.934	JB	0.0171	5.91	1
11031	1234789-HpCDF	55673-89-7	0.0875	JB	0.0181	5.91	1
11031	OCDF	39001-02-0	2.59	JB	0.0283	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-174-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SS-0.0-0.5

LLI Sample # SW 6216924
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 14:10

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5712 SDG#: DX057-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-174-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SS-0.0-0.5

LLI Sample # SW 6216924
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 14:10

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5712 SDG#: DX057-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 09:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-053-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SB-3.0-4.0

LLI Sample # SW 6216925
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:28

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5713 SDG#: DX057-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-053-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SB-3.0-4.0

LLI Sample # SW 6216925
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:28

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5713 SDG#: DX057-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0179 U	0.0179	1.13	1
11031	12378-PeCDD	40321-76-4	0.0177 JBQ	0.0148	5.64	1
11031	123478-HxCDD	39227-28-6	0.0141 U	0.0141	5.64	1
11031	123678-HxCDD	57653-85-7	0.0487 JB	0.0147	5.64	1
11031	123789-HxCDD	19408-74-3	0.0837 JBQ	0.0137	5.64	1
11031	1234678-HpCDD	35822-46-9	0.196 JBQ	0.0167	5.64	1
11031	OCDD	3268-87-9	1.25 JB	0.0256	11.3	1
11031	2378-TCDF	51207-31-9	0.0172 U	0.0172	1.13	1
11031	12378-PeCDF	57117-41-6	0.0173 JBQ	0.00993	5.64	1
11031	23478-PeCDF	57117-31-4	0.0369 JBQ	0.00926	5.64	1
11031	123478-HxCDF	70648-26-9	0.0132 JB	0.00801	5.64	1
11031	123678-HxCDF	57117-44-9	0.0408 JB	0.00722	5.64	1
11031	123789-HxCDF	72918-21-9	0.0297 JBQ	0.00869	5.64	1
11031	234678-HxCDF	60851-34-5	0.0170 JBQ	0.00734	5.64	1
11031	1234678-HpCDF	67562-39-4	0.0452 JBQ	0.00711	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0329 JB	0.0107	5.64	1
11031	OCDF	39001-02-0	0.103 JB	0.0226	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-053-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SB-3.0-4.0

LLI Sample # SW 6216925
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:28

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5713 SDG#: DX057-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-053-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5A-SB-3.0-4.0

LLI Sample # SW 6216925
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 09:28

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5713 SDG#: DX057-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 10:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-054-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-4.0-5.0

LLI Sample # SW 6216926
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:25

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5714 SDG#: DX057-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-4.0-5.0

LLI Sample # SW 6216926
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:25

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5714 SDG#: DX057-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0238 U	0.0238	1.12	1
11031	12378-PeCDD	40321-76-4	0.0287 JBQ	0.0167	5.61	1
11031	123478-HxCDD	39227-28-6	0.0147 U	0.0147	5.61	1
11031	123678-HxCDD	57653-85-7	0.0277 JBQ	0.0152	5.61	1
11031	123789-HxCDD	19408-74-3	0.0218 JBQ	0.0148	5.61	1
11031	1234678-HpCDD	35822-46-9	0.181 JBQ	0.0165	5.61	1
11031	OCDD	3268-87-9	0.713 JB	0.0258	11.2	1
11031	2378-TCDF	51207-31-9	0.0193 U	0.0193	1.12	1
11031	12378-PeCDF	57117-41-6	0.0125 JBQ	0.00942	5.61	1
11031	23478-PeCDF	57117-31-4	0.0466 JB	0.00919	5.61	1
11031	123478-HxCDF	70648-26-9	0.0167 JBQ	0.00863	5.61	1
11031	123678-HxCDF	57117-44-9	0.0143 JBQ	0.00695	5.61	1
11031	123789-HxCDF	72918-21-9	0.0317 JB	0.00908	5.61	1
11031	234678-HxCDF	60851-34-5	0.0193 JBQ	0.00774	5.61	1
11031	1234678-HpCDF	67562-39-4	0.0493 JBQ	0.00628	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0244 JBQ	0.00998	5.61	1
11031	OCDF	39001-02-0	0.0896 JBQ	0.0254	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-4.0-5.0

LLI Sample # SW 6216926
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:25

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5714 SDG#: DX057-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-054-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-4.0-5.0

LLI Sample # SW 6216926
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:25

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5714 SDG#: DX057-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 11:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-054-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-9.0-10.0

LLI Sample # SW 6216927
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:30

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5715 SDG#: DX057-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-9.0-10.0

LLI Sample # SW 6216927
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:30

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5715 SDG#: DX057-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0215	U	0.0215	1.15	1
11031	12378-PeCDD	40321-76-4	0.0166	U	0.0166	5.76	1
11031	123478-HxCDD	39227-28-6	0.0122	U	0.0122	5.76	1
11031	123678-HxCDD	57653-85-7	0.0131	U	0.0131	5.76	1
11031	123789-HxCDD	19408-74-3	0.0130	U	0.0130	5.76	1
11031	1234678-HpCDD	35822-46-9	0.187	JBQ	0.0162	5.76	1
11031	OCDD	3268-87-9	0.814	JB	0.0256	11.5	1
11031	2378-TCDF	51207-31-9	0.0179	U	0.0179	1.15	1
11031	12378-PeCDF	57117-41-6	0.0103	JBQ	0.0100	5.76	1
11031	23478-PeCDF	57117-31-4	0.0606	JBQ	0.00979	5.76	1
11031	123478-HxCDF	70648-26-9	0.0180	JB	0.00772	5.76	1
11031	123678-HxCDF	57117-44-9	0.0107	JB	0.00680	5.76	1
11031	123789-HxCDF	72918-21-9	0.0242	JBQ	0.00818	5.76	1
11031	234678-HxCDF	60851-34-5	0.0128	JB	0.00703	5.76	1
11031	1234678-HpCDF	67562-39-4	0.0613	JBQ	0.00611	5.76	1
11031	1234789-HpCDF	55673-89-7	0.0267	JB	0.00910	5.76	1
11031	OCDF	39001-02-0	0.116	JB	0.0204	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-9.0-10.0

LLI Sample # SW 6216927
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:30

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5715 SDG#: DX057-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-054-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5A-SB-9.0-10.0

LLI Sample # SW 6216927
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 11:30

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5715 SDG#: DX057-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 12:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-055-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SB-2.0-3.0

LLI Sample # SW 6216928
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 12:38

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5716 SDG#: DX057-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-055-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SB-2.0-3.0

LLI Sample # SW 6216928
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 12:38

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5716 SDG#: DX057-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0229 U	0.0229	1.13	1
11031	12378-PeCDD	40321-76-4	0.0245 JBQ	0.0173	5.65	1
11031	123478-HxCDD	39227-28-6	0.0232 U	0.0232	5.65	1
11031	123678-HxCDD	57653-85-7	0.216 JB	0.0250	5.65	1
11031	123789-HxCDD	19408-74-3	0.380 JB	0.0247	5.65	1
11031	1234678-HpCDD	35822-46-9	0.169 JB	0.0172	5.65	1
11031	OCDD	3268-87-9	0.719 JBQ	0.0226	11.3	1
11031	2378-TCDF	51207-31-9	0.0199 U	0.0199	1.13	1
11031	12378-PeCDF	57117-41-6	0.0237 JBQ	0.0108	5.65	1
11031	23478-PeCDF	57117-31-4	0.0315 JBQ	0.0110	5.65	1
11031	123478-HxCDF	70648-26-9	0.00927 U	0.00927	5.65	1
11031	123678-HxCDF	57117-44-9	0.0704 JBQ	0.00780	5.65	1
11031	123789-HxCDF	72918-21-9	0.0425 JBQ	0.00983	5.65	1
11031	234678-HxCDF	60851-34-5	0.0199 JBQ	0.00847	5.65	1
11031	1234678-HpCDF	67562-39-4	0.0519 JBQ	0.00689	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0246 JBQ	0.00983	5.65	1
11031	OCDF	39001-02-0	0.123 JBQ	0.0236	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-055-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SB-2.0-3.0

LLI Sample # SW 6216928
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 12:38

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5716 SDG#: DX057-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-055-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5A-SB-2.0-3.0

LLI Sample # SW 6216928
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 12:38

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5716 SDG#: DX057-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 13:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-4.0-5.0

LLI Sample # SW 6216929
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:43

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5717 SDG#: DX057-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-056-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-4.0-5.0

LLI Sample # SW 6216929
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:43

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5717 SDG#: DX057-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0244 U	0.0244	1.15	1
11031	12378-PeCDD	40321-76-4	0.0357 JBQ	0.0209	5.73	1
11031	123478-HxCDD	39227-28-6	0.0186 U	0.0186	5.73	1
11031	123678-HxCDD	57653-85-7	0.0501 JB	0.0192	5.73	1
11031	123789-HxCDD	19408-74-3	0.152 JB	0.0190	5.73	1
11031	1234678-HpCDD	35822-46-9	0.160 JB	0.0174	5.73	1
11031	OCDD	3268-87-9	0.724 JB	0.0251	11.5	1
11031	2378-TCDF	51207-31-9	0.0214 U	0.0214	1.15	1
11031	12378-PeCDF	57117-41-6	0.0114 U	0.0114	5.73	1
11031	23478-PeCDF	57117-31-4	0.0366 JBQ	0.0110	5.73	1
11031	123478-HxCDF	70648-26-9	0.0223 JBQ	0.0106	5.73	1
11031	123678-HxCDF	57117-44-9	0.0223 JBQ	0.00906	5.73	1
11031	123789-HxCDF	72918-21-9	0.0892 JBQ	0.0117	5.73	1
11031	234678-HxCDF	60851-34-5	0.0205 JBQ	0.00963	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0491 JB	0.00711	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0201 JB	0.0109	5.73	1
11031	OCDF	39001-02-0	0.120 JBQ	0.0237	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-056-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-4.0-5.0

LLI Sample # SW 6216929
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:43

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5717 SDG#: DX057-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-4.0-5.0

LLI Sample # SW 6216929
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:43

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5717 SDG#: DX057-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 14:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-7.0-8.0

LLI Sample # SW 6216930
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:47

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5718 SDG#: DX057-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-056-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-7.0-8.0

LLI Sample # SW 6216930
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:47

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5718 SDG#: DX057-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0317 U	0.0317	1.17	1
11031	12378-PeCDD	40321-76-4	0.0622 JBQ	0.0245	5.83	1
11031	123478-HxCDD	39227-28-6	0.0177 U	0.0177	5.83	1
11031	123678-HxCDD	57653-85-7	0.0439 JBQ	0.0184	5.83	1
11031	123789-HxCDD	19408-74-3	0.0315 JBQ	0.0196	5.83	1
11031	1234678-HpCDD	35822-46-9	0.212 JBQ	0.0242	5.83	1
11031	OCDD	3268-87-9	0.795 JB	0.0280	11.7	1
11031	2378-TCDF	51207-31-9	0.0336 JBQ	0.0296	1.17	1
11031	12378-PeCDF	57117-41-6	0.0289 JBQ	0.0162	5.83	1
11031	23478-PeCDF	57117-31-4	0.0526 JB	0.0152	5.83	1
11031	123478-HxCDF	70648-26-9	0.0194 JBQ	0.0107	5.83	1
11031	123678-HxCDF	57117-44-9	0.0175 JBQ	0.00956	5.83	1
11031	123789-HxCDF	72918-21-9	0.0335 JBQ	0.0121	5.83	1
11031	234678-HxCDF	60851-34-5	0.0207 JB	0.0104	5.83	1
11031	1234678-HpCDF	67562-39-4	0.0500 JBQ	0.00828	5.83	1
11031	1234789-HpCDF	55673-89-7	0.0267 JBQ	0.0117	5.83	1
11031	OCDF	39001-02-0	0.0298 U	0.0298	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-7.0-8.0

LLI Sample # SW 6216930
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:47

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5718 SDG#: DX057-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-056-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5A-SB-7.0-8.0

LLI Sample # SW 6216930
LLI Group # 1234860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/25/2011 15:47

Submitted: 02/26/2011 09:15
Reported: 03/22/2011 18:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5718 SDG#: DX057-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11063001	03/09/2011 15:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11063001	03/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11066162401A	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234860
Reported: 03/22/11 at 06:07 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11066162401A	Sample number(s): 6216911-6216912,6216914-6216915,6216919-6216930								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11063001	Sample number(s): 6216911-6216912,6216914-6216915,6216919-6216930								
2378-TCDD	0.0216 U	0.0216	1.00	ng/kg	84		67-158		
12378-PeCDD	0.0750 J	0.0238	5.00	ng/kg	88		70-142		
123478-HxCDD	0.0426 J	0.0252	5.00	ng/kg	86		70-164		
123678-HxCDD	0.106 J	0.0229	5.00	ng/kg	88		76-134		
123789-HxCDD	0.133 J	0.0195	5.00	ng/kg	87		64-162		
1234678-HpCDD	1.58 J	0.0206	5.00	ng/kg	86		70-140		
OCDD	3.07 J	0.0236	10.0	ng/kg	86		78-144		
2378-TCDF	0.0934 J	0.0265	1.00	ng/kg	91		75-158		
12378-PeCDF	0.160 J	0.0161	5.00	ng/kg	87		80-134		
23478-PeCDF	0.477 J	0.0166	5.00	ng/kg	88		68-160		
123478-HxCDF	0.221 J	0.0485	5.00	ng/kg	87		72-134		
123678-HxCDF	0.159 J	0.0334	5.00	ng/kg	86		84-130		
123789-HxCDF	0.379 J	0.0211	5.00	ng/kg	87		78-130		
234678-HxCDF	1.81 J	0.0183	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.848 J	0.0280	5.00	ng/kg	86		82-122		
1234789-HpCDF	0.702 J	0.0187	5.00	ng/kg	86		78-138		
OCDF	2.51 J	0.0286	10.0	ng/kg	87		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11066162401A	Sample number(s): 6216911-6216912,6216914-6216915,6216919-6216930							BKG: P214520	
28a Moisture Content by 160.3						10.6	10.1	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234860
Reported: 03/22/11 at 06:07 PM

Surrogate Quality Control

Batch number: 11063001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6216911	83	89	39	54	84	82
6216912	80	85	58	73	82	75
6216914	84	93	70	82	85	83
6216915	82	92	80	89	88	85
6216919	79	90	75	86	82	81
6216920	80	101	76	86	81	79
6216921	78	87	80	87	79	76
6216922	80	95	74	85	85	80
6216923	77	86	45	58	83	81
6216924	79	89	57	73	81	78
6216925	73	86	73	83	77	72
6216926	69	85	71	84	74	67
6216927	69	81	72	82	76	71
6216928	74	86	74	86	79	75
6216929	69	81	68	77	69	64
6216930	70	78	74	83	73	69
Blank	70	71	29	41	71	69
OPR	72	81	38	55	74	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6216911	48	70	52	85	95	70
6216912	70	66	57	87	91	82
6216914	79	80	71	92	96	86
6216915	87	81	71	89	94	90
6216919	84	64	57	90	92	83
6216920	80	82	73	91	101	80
6216921	87	70	64	86	90	83
6216922	83	76	69	93	97	85
6216923	48	72	60	91	90	69
6216924	67	70	60	88	95	80
6216925	85	63	56	92	94	82
6216926	88	63	57	83	90	78
6216927	87	65	58	87	87	83
6216928	89	68	60	88	91	84
6216929	81	60	54	86	81	72
6216930	83	65	59	86	81	78
Blank	40	63	51	80	81	53
OPR	57	64	57	85	86	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6216911	79	92	76	68	83	98
6216912	84	82	74	66	78	91
6216914	85	87	81	75	85	97
6216915	88	89	81	75	86	98
6216919	86	86	70	64	78	97
6216920	80	81	79	78	82	105
6216921	81	81	76	72	78	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1234860
Reported: 03/22/11 at 06:07 PM

Surrogate Quality Control

6216922	84	85	78	73	82	98
6216923	80	83	71	64	82	95
6216924	84	84	76	67	81	94
6216925	82	85	74	66	72	91
6216926	78	80	74	69	69	93
6216927	82	81	74	67	70	89
6216928	82	82	77	71	75	95
6216929	73	71	68	65	65	86
6216930	78	77	71	68	71	81
Blank	62	73	68	66	67	81
OPR	75	79	74	73	69	88
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Op#1234560 Sample# 6216911-30

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 15 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCT's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS								SS ONLY		
SL-126-SA5A-SS-0.0-0.5	2.25.11	0850	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	~~Amended~~ NM 3/21/11 SL-131 & SL 134
SL-126-SA5A-SS-0.0-0.5	2.25.11	0850	SOIL	NONE	1-6 inch sleeve			X	X							€ Amended COC were voided PB.
SL-127-SA5A-SS-0.0-0.5	2.25.11	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	NM 3/21/11
SL-127-SA5A-SS-0.0-0.5	2.25.11	0905	SOIL	NONE	1-6 inch sleeve			X	X							
~~SL-131-SA5A-SS-0.0-0.5~~	~~2.25.11~~	~~1025~~	~~SOIL~~	~~NONE~~	~~1-16 oz jar~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	
~~SL-131-SA5A-SS-0.0-0.5~~	~~2.25.11~~	~~1025~~	~~SOIL~~	~~NONE~~	~~1-6 inch sleeve~~			~~X~~	~~X~~							
SL-132-SA5A-SS-0.0-0.5	2.25.11	0920	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-132-SA5A-SS-0.0-0.5	2.25.11	0920	SOIL	NONE	1-6 inch sleeve			X	X							
SL-133-SA5A-SS-0.0-0.5	2.25.11	1000	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-133-SA5A-SS-0.0-0.5	2.25.11	1000	SOIL	NONE	1-6 inch sleeve			X	X							
~~SL-134-SA5A-SS-0.0-0.5~~	~~2.25.11~~	~~1009~~	~~SOIL~~	~~NONE~~	~~2-16 oz jars~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~MS/MSD sample~~
~~SL-134-SA5A-SS-0.0-0.5~~	~~2.25.11~~	~~1009~~	~~SOIL~~	~~NONE~~	~~2-6 inch sleeves~~			~~X~~	~~X~~							~~MS/MSD sample~~
SL-144-SA5A-SS-0.0-0.5	2.25.11	1105	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-144-SA5A-SS-0.0-0.5	2.25.11	1105	SOIL	NONE	1-6 inch sleeve			X	X							
SL-146-SA5A-SS-0.0-0.5	2.25.11	1045	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-146-SA5A-SS-0.0-0.5	2.25.11	1045	SOIL	NONE	1-6 inch sleeve			X	X							
SL-171-SA5A-SS-0.0-0.5	2.25.11	1310	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-171-SA5A-SS-0.0-0.5	2.25.11	1310	SOIL	NONE	1-6 inch sleeve			X	X							
SL-172-SA5A-SS-0.0-0.5	2.25.11	1345	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-172-SA5A-SS-0.0-0.5	2.25.11	1345	SOIL	NONE	1-6 inch sleeve			X	X							
SL-173-SA5A-SS-0.0-0.5	2.25.11	1325	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-173-SA5A-SS-0.0-0.5	2.25.11	1325	SOIL	NONE	1-6 inch sleeve			X	X							
SL-174-SA5A-SS-0.0-0.5	2.25.11	1410	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-174-SA5A-SS-0.0-0.5	2.25.11	1410	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (*Signature*) — Date/Time: 02/25/2011 / 17:00 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time: 2/26/11 0800 — Airbill No.(s): 8695 1432 6595, 8695 1432 6600

Laboratory: Lancaster Laboratories, Inc.

acct#13013 Gp#1234860 Sample#6216911-30

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	Other Instructions and Notes
SL-053-SA5A-SB-3.0-4.0	2.25.11	0928	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-053-SA5A-SB-3.5	2.25.11	0925	SOIL	NONE	4-Encores									X	X		
SL-054-SA5A-SB-4.0-5.0	2.25.11	1125	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-054-SA5A-SB-4.5	2.25.11	1123	SOIL	NONE	4-Encores									X	X		
SL-054-SA5A-SB-9.0-10.0	2.25.11	1130	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-055-SA5A-SB-2.0-3.0	2.25.11	1238	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-055-SA5A-SB-2.5	2.25.11	1235	SOIL	NONE	4-Encores									X	X		
SL-056-SA5A-SB-4.0-5.0	2.25.11	1543	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-056-SA5A-SB-4.5	2.25.11	1540	SOIL	NONE	4-Encores									X	X		
SL-056-SA5A-SB-7.0-8.0	2.25.11	1547	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
TB-022511	2.25.11	1630	WATER	HCl	3-40 mL VOA VIALS									X	X		TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 02/25/2011 / 17:00 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time: 2/25/11 0915 — Airbill No.(s): 8695 1432 6595, 8695 1432 6600

Laboratory: Lancaster Laboratories, Inc.

Nicole Maljovec A#13013 Grp#1234860 S#G21G911-30

From: Nicole Maljovec
Sent: Monday, February 28, 2011 2:22 PM
To: 'Bloisa, Peggy'
Subject: RE: Do not analyze samples submitted on COC for 2/25/2011

Oh, that's never good having to fill two roles!

I can void these right now. Unfortunately there is nothing you can do to replace the QC for the work. The groups are capped at 20 samples to make full batches and if you did submit more QC, it's going to throw off the way the EDDs have been set up.

The best thing for us would be to leave SL-134, but I understand that you have to follow your sampling plan. These groups will just have batch QC instead of site specific QC.

Thanks,
Nicole

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Monday, February 28, 2011 12:55 PM
To: Nicole Maljovec
Subject: Do not analyze samples submitted on COC for 2/25/2011
Importance: High

Hi Nicole – Last week was awful! Pam Hartman, the geologist that's been working on the subsurface sampling rig got sick and was out Thursday and Friday and I tried filling in as the surface sampler AND the sample manager and failed miserably!

I collected a couple of samples that we have excluded from our chemical sampling plan, so the following samples should not be analyzed (and wouldn't you know it, one of them was the double volume sample that I collected):

SL-131-SA5A-SS-0.0-0.5 and
SL-134-SA5A-SS-0.0-0.5.

How would you like us to make up for the missing MS/MSD samples?

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Office Phone and Fax: (925) 296-8053| SSFL Phone (818) 466-8007

Please consider the environment before printing this email.

acct#13013 Gp#1234560 Sample# 6216911-30

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
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Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SL-126-SA5A-SS-0.0-0.5	2.25.11	0850	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-126-SA5A-SS-0.0-0.5	2.25.11	0850	SOIL	NONE	1-6 inch sleeve			X	X							
SL-127-SA5A-SS-0.0-0.5	2.25.11	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-127-SA5A-SS-0.0-0.5	2.25.11	0905	SOIL	NONE	1-6 inch sleeve			X	X							
SL-131-SA5A-SS-0.0-0.5	2.25.11	1025	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-131-SA5A-SS-0.0-0.5	2.25.11	1025	SOIL	NONE	1-6 inch sleeve			X	X							
SL-132-SA5A-SS-0.0-0.5	2.25.11	0920	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-132-SA5A-SS-0.0-0.5	2.25.11	0920	SOIL	NONE	1-6 inch sleeve			X	X							
SL-133-SA5A-SS-0.0-0.5	2.25.11	1000	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-133-SA5A-SS-0.0-0.5	2.25.11	1000	SOIL	NONE	1-6 inch sleeve			X	X							
SL-134-SA5A-SS-0.0-0.5	2.25.11	1009	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	MS/MSD sample
SL-134-SA5A-SS-0.0-0.5	2.25.11	1009	SOIL	NONE	2-6 inch sleeves			X	X							MS/MSD sample
SL-144-SA5A-SS-0.0-0.5	2.25.11	1105	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-144-SA5A-SS-0.0-0.5	2.25.11	1105	SOIL	NONE	1-6 inch sleeve			X	X							
SL-146-SA5A-SS-0.0-0.5	2.25.11	1045	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-146-SA5A-SS-0.0-0.5	2.25.11	1045	SOIL	NONE	1-6 inch sleeve			X	X							
SL-171-SA5A-SS-0.0-0.5	2.25.11	1310	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-171-SA5A-SS-0.0-0.5	2.25.11	1310	SOIL	NONE	1-6 inch sleeve			X	X							
SL-172-SA5A-SS-0.0-0.5	2.25.11	1345	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-172-SA5A-SS-0.0-0.5	2.25.11	1345	SOIL	NONE	1-6 inch sleeve			X	X							
SL-173-SA5A-SS-0.0-0.5	2.25.11	1325	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-173-SA5A-SS-0.0-0.5	2.25.11	1325	SOIL	NONE	1-6 inch sleeve			X	X							
SL-174-SA5A-SS-0.0-0.5	2.25.11	1410	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-174-SA5A-SS-0.0-0.5	2.25.11	1410	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (*Signature*) Date/Time 02/25/2011 / 17:00

Received for Laboratory by: (*Signature*)

Received by: (*Signature*) Date/Time

Airbill No.(s)
8695 1432 6595
8695 1432 6600

Laboratory:
Lancaster Laboratories, Inc.

acct#13013 Gp#1234860 Sample#6216911-30

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
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@ For hex chrome analysis, lab will measure pH and ORP
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Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
SL-053-SA5A-SB-3.0-4.0	2.25.11	0928	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-053-SA5A-SB-3.5	2.25.11	0925	SOIL	NONE	4-Encores									X	X		
SL-054-SA5A-SB-4.0-5.0	2.25.11	1125	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-054-SA5A-SB-4.5	2.25.11	1123	SOIL	NONE	4-Encores									X	X		
SL-054-SA5A-SB-9.0-10.0	2.25.11	1130	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-055-SA5A-SB-2.0-3.0	2.25.11	1238	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-055-SA5A-SB-2.5	2.25.11	1235	SOIL	NONE	4-Encores									X	X		
SL-056-SA5A-SB-4.0-5.0	2.25.11	1543	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-056-SA5A-SB-4.5	2.25.11	1540	SOIL	NONE	4-Encores									X	X		
SL-056-SA5A-SB-7.0-8.0	2.25.11	1547	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
TB-022511	2.25.11	1630	WATER	HCl	3-40 mL VOA VIALS									X	X		TRIP BLANK

Relinquished by: (*Signature*)	Date/Time 02/25/2011 / 17:00	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 2/25/11 0946	Airbill No.(s) 8695 1432 6595 8695 1432 6600	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/01/2011
Group Number: 1235023
SDG: DE093
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-05-SA5A-QC-022811 Soil	6217790
SL-087-SA5A-SS-0.0-0.5 Soil	6217791
SL-087-SA5A-SS-0.0-0.5MS Soil	6217792
SL-087-SA5A-SS-0.0-0.5MSD Soil	6217793
SL-087-SA5A-SS-0.0-0.5DUP Soil	6217794
SL-105-SA5A-SS-0.0-0.5 Soil	6217795
SL-106-SA5A-SS-0.0-0.5 Soil	6217796
SL-107-SA5A-SS-0.0-0.5 Soil	6217797
SL-108-SA5A-SS-0.0-0.5 Soil	6217798
SL-109-SA5A-SS-0.0-0.5 Soil	6217799
SL-111-SA5A-SS-0.0-0.5 Soil	6217800
SL-145-SA5A-SS-0.0-0.5 Soil	6217801
SL-253-SA5A-SS-0.0-0.5 Soil	6217802
SL-255-SA5A-SS-0.0-0.5 Soil	6217803
EB02-SA5A-022811 Water	6217804
EB03-SA5A-022811 Water	6217805
SL-237-SA5A-SB-4.0-5.0 Soil	6217806
SL-237-SA5A-SB-9.0-10.0 Soil	6217807
TB-022811 Water	6217808

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

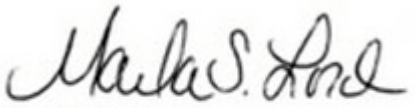
Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Marla S. Lord
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-05-SA5A-QC-022811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-05-SA5A-QC-022811

LLI Sample # SW 6217790
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:05

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE093-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-05-SA5A-QC-022811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-05-SA5A-QC-022811

LLI Sample # SW 6217790
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:05

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE093-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21	1
10138	Chrysene	218-01-9	0.53	J	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21	1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0	1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0	1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21	1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0	1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	20		0.74	2.0	1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4	1
10401	Dinoseb	88-85-7	0.95	U	0.95	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.4	J	0.95	2.0	1
10401	MCPA	94-74-6	90	U	90	300	1
10401	MCPP (Mecoprop)	93-65-2	89	U	89	300	1
10401	2,4,5-T	93-76-5	0.098	U	0.098	0.20	1
10401	2,4,5-TP	93-72-1	0.089	U	0.089	0.20	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20	1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20	1
01363	Chlordane	57-74-9	0.95	U	0.95	4.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-05-SA5A-QC-022811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-05-SA5A-QC-022811

LLI Sample # SW 6217790
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:05

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE093-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40	1
01363	p,p-DDE	72-55-9	0.30	J	0.078	0.40	1
01363	p,p-DDT	50-29-3	0.40		0.078	0.40	1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20	1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40	1
01363	Endrin	72-20-8	0.078	U	0.078	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.078	U	0.078	0.40	1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40	1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0	1
01363	Mirex	2385-85-5	0.078	U	0.078	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		5.86	23.3	1
07914	Boron	7440-42-8	6.79		1.04	5.83	1
01650	Calcium	7440-70-2	2,650		7.15	23.3	1
01654	Iron	7439-89-6	22,800		5.49	23.3	1
01656	Lithium	7439-93-2	25.0		0.26	2.3	1
01657	Magnesium	7439-95-4	4,930		2.96	11.7	1
06958	Manganese	7439-96-5	306		0.0909	0.583	1
10145	Phosphorus	7723-14-0	418		0.653	11.7	1
01662	Potassium	7440-09-7	3,400		21.0	58.3	1
01667	Sodium	7440-23-5	67.9	J	43.5	117	1
07968	Strontium	7440-24-6	19.1		0.0723	0.583	1
06969	Tin	7440-31-5	2.90	J	1.17	11.7	1
06970	Titanium	7440-32-6	1,230		0.443	1.17	1
10146	Zirconium	7440-67-7	1.18	J	0.979	5.83	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-05-SA5A-QC-022811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-05-SA5A-QC-022811

LLI Sample # SW 6217790
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:05

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE093-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.236	J	0.0713	0.238	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.71		0.0951	0.476	2
06126	Barium	7440-39-3	146		0.128	0.476	2
06127	Beryllium	7440-41-7	0.937		0.0190	0.119	2
06128	Cadmium	7440-43-9	0.243		0.0476	0.119	2
06131	Chromium	7440-47-3	30.3		0.143	0.476	2
06132	Cobalt	7440-48-4	7.72		0.0238	0.119	2
06133	Copper	7440-50-8	11.6		0.0785	0.476	2
06135	Lead	7439-92-1	14.4		0.0124	0.238	2
06138	Molybdenum	7439-98-7	1.07		0.0595	0.119	2
06139	Nickel	7440-02-0	18.6		0.119	0.476	2
06141	Selenium	7782-49-2	0.226	J	0.0476	0.476	2
06142	Silver	7440-22-4	0.0525	J	0.0143	0.119	2
06145	Thallium	7440-28-0	0.412		0.0357	0.119	2
06148	Vanadium	7440-62-2	56.7		0.0262	0.119	2
06149	Zinc	7440-66-6	82.8		0.666	3.57	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0082	J	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.74	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	380		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.28		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-05-SA5A-QC-022811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-05-SA5A-QC-022811

LLI Sample # SW 6217790
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:05

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE093-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 07:42	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/17/2011 13:55	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/12/2011 15:52	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/17/2011 08:41	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 05:43	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110670001A	03/08/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690015A	03/11/2011 03:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 03:40	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 15:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 15:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 15:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 15:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110731026001A	03/15/2011 12:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 15:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 15:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 15:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 15:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 15:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 15:04	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP-05-SA5A-QC-022811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-05-SA5A-QC-022811

LLI Sample # SW 6217790
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:05

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE093-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 15:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 15:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 15:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202A	03/15/2011 07:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201A	03/10/2011 10:04	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11064243201A	03/08/2011 13:36	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202A	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201A	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101A	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401A	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-087-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217791
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	78	U	78	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	78	U	78	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217791
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	J	0.78	1.9	1
10138	Acenaphthylene	208-96-8	0.67	J	0.39	1.9	1
10138	Anthracene	120-12-7	1.6	J	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	2.8		0.78	1.9	1
10138	Benzo(a)pyrene	50-32-8	3.3		0.78	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	12		0.78	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.78	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	3.1		0.78	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	4.4		0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.94	J	0.78	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	7.0	21	1
10138	Fluoranthene	206-44-0	7.0		0.78	1.9	1
10138	Fluorene	86-73-7	1.4	J	0.78	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.5	J	0.78	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9	1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9	1
10138	Di-n-octylphthalate	117-84-0	14	J	7.0	21	1
10138	Phenanthrene	85-01-8	3.6		0.78	1.9	1
10138	Pyrene	129-00-0	6.6		0.78	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	39	U	39	39	5
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4	1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	3.4		0.94	2.0	1
10401	MCPA	94-74-6	520	U	520	520	1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290	1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20	1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217791
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19	1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19	1
01363	Chlordane	57-74-9	0.93	U	0.93	4.0	1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40	1
01363	p,p-DDE	72-55-9	0.22	U	0.22	0.40	1
01363	p,p-DDT	50-29-3	0.39	U	0.39	0.40	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19	1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40	1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19	1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40	1
01363	Endrin	72-20-8	0.077	U	0.077	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40	1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40	1
01363	Heptachlor	76-44-8	0.076	U	0.076	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9	1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	J	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.68	J	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1

Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,900	5.73	22.8	1
07914	Boron	7440-42-8	7.26	1.01	5.69	1
01650	Calcium	7440-70-2	2,750	6.98	22.8	1
01654	Iron	7439-89-6	23,900	5.36	22.8	1
01656	Lithium	7439-93-2	26.3	0.25	2.3	1
01657	Magnesium	7439-95-4	5,010	2.89	11.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217791
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	304		0.0888	0.569	1
10145	Phosphorus	7723-14-0	399		0.637	11.4	1
01662	Potassium	7440-09-7	3,310		20.5	56.9	1
01667	Sodium	7440-23-5	76.1	J	42.5	114	1
07968	Strontium	7440-24-6	20.1		0.0706	0.569	1
06969	Tin	7440-31-5	2.91	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,260		0.433	1.14	1
10146	Zirconium	7440-67-7	1.12	J	0.956	5.69	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.259		0.0690	0.230	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.16		0.0919	0.460	2
06126	Barium	7440-39-3	142		0.124	0.460	2
06127	Beryllium	7440-41-7	0.922		0.0184	0.115	2
06128	Cadmium	7440-43-9	0.186		0.0469	0.117	2
06131	Chromium	7440-47-3	29.6		0.138	0.460	2
06132	Cobalt	7440-48-4	7.59		0.0230	0.115	2
06133	Copper	7440-50-8	9.40		0.0774	0.469	2
06135	Lead	7439-92-1	13.3		0.0120	0.230	2
06138	Molybdenum	7439-98-7	0.738		0.0586	0.117	2
06139	Nickel	7440-02-0	17.2		0.115	0.460	2
06141	Selenium	7782-49-2	0.200	J	0.0460	0.460	2
06142	Silver	7440-22-4	0.0838	J	0.0138	0.115	2
06145	Thallium	7440-28-0	0.316		0.0345	0.115	2
06148	Vanadium	7440-62-2	54.8		0.0253	0.115	2
06149	Zinc	7440-66-6	74.2		0.644	3.45	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0155	J	0.0033	0.115	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.94	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.64	J	0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	390		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217791
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.42	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 06:27	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/17/2011 12:23	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/12/2011 14:29	John W Perkins	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/15/2011 15:04	John W Perkins	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/17/2011 08:54	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 06:06	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110670001A	03/08/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690015A	03/11/2011 03:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-087-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217791
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

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14420 Albemarle Point Place
Suite 210
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SL087 SDG#: DE093-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 03:16	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 14:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 14:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 14:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 14:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	110731026001A	03/16/2011 08:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 14:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 14:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 14:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 14:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 14:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 14:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 14:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 14:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 14:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202A	03/15/2011 06:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201A	03/10/2011 05:40	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11064243201A	03/08/2011 13:48	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202A	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201A	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101A	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401A	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-087-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217792
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		20	200	1
04688	Acenaphthylene	208-96-8	1,900		20	200	1
04688	Aniline	62-53-3	2,100		200	590	1
04688	Anthracene	120-12-7	1,900		20	200	1
04688	Benzidine	92-87-5	2,500	J	1,400	3,900	1
04688	Benzo(a)anthracene	56-55-3	1,900		20	200	1
04688	Benzo(a)pyrene	50-32-8	1,800		20	200	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		20	200	1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		20	200	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		20	200	1
04688	Benzoic acid	65-85-0	2,000		200	590	1
04688	Benzyl alcohol	100-51-6	1,900		200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		20	200	1
04688	Butylbenzylphthalate	85-68-7	2,000		20	200	1
04688	Di-n-butylphthalate	84-74-2	1,900		20	200	1
04688	Carbazole	86-74-8	1,800		20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		39	200	1
04688	4-Chloroaniline	106-47-8	1,400		78	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,000		20	200	1
04688	2-Chloronaphthalene	91-58-7	2,000		20	200	1
04688	2-Chlorophenol	95-57-8	1,900		20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900		39	200	1
04688	Chrysene	218-01-9	1,900		20	200	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		20	200	1
04688	Dibenzofuran	132-64-9	1,900		20	200	1
04688	1,2-Dichlorobenzene	95-50-1	1,700		20	200	1
04688	1,3-Dichlorobenzene	541-73-1	1,700		20	200	1
04688	1,4-Dichlorobenzene	106-46-7	1,700		20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,600		120	390	1
04688	2,4-Dichlorophenol	120-83-2	2,000		20	200	1
04688	Diethylphthalate	84-66-2	1,800		20	200	1
04688	2,4-Dimethylphenol	105-67-9	1,900		39	200	1
04688	3,5-Dimethylphenol	108-68-9	2,000		39	200	1
04688	Dimethylphthalate	131-11-3	1,900		20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,700		200	590	1
04688	2,4-Dinitrophenol	51-28-5	3,300		390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	1,900		39	200	1
04688	2,6-Dinitrotoluene	606-20-2	1,900		20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		20	390	1
04688	Fluoranthene	206-44-0	1,800		20	200	1
04688	Fluorene	86-73-7	1,800		20	200	1
04688	Hexachlorobenzene	118-74-1	2,000		20	200	1
04688	Hexachlorobutadiene	87-68-3	1,900		78	200	1
04688	Hexachlorocyclopentadiene	77-47-4	3,400		200	590	1
04688	Hexachloroethane	67-72-1	1,600		20	200	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		20	200	1
04688	Isophorone	78-59-1	1,900		20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217792
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,900	20	200	1
04688	2-Methylnaphthalene	91-57-6	1,800	20	200	1
04688	2-Methylphenol	95-48-7	1,900	39	200	1
04688	4-Methylphenol	106-44-5	1,800	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,800	20	200	1
04688	2-Nitroaniline	88-74-4	1,900	20	200	1
04688	3-Nitroaniline	99-09-2	1,800	39	200	1
04688	4-Nitroaniline	100-01-6	1,500	78	200	1
04688	Nitrobenzene	98-95-3	1,800	20	200	1
04688	2-Nitrophenol	88-75-5	2,000	20	200	1
04688	4-Nitrophenol	100-02-7	1,500	200	590	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	39	200	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,000	20	200	1
04688	Pentachlorophenol	87-86-5	1,700	200	590	1
04688	Phenanthrene	85-01-8	1,800	20	200	1
04688	Phenol	108-95-2	1,800	20	200	1
04688	Pyrene	129-00-0	2,000	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	2,000	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	39	200	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.					
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	37	0.78	1.9	1
10138	Acenaphthylene	208-96-8	39	0.39	1.9	1
10138	Anthracene	120-12-7	38	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	38	0.78	1.9	1
10138	Benzo(a)pyrene	50-32-8	39	0.78	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	52	0.78	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	20	0.78	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	44	0.78	1.9	1
10138	Butylbenzylphthalate	85-68-7	52	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	43	7.0	21	1
10138	Chrysene	218-01-9	38	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	26	0.78	1.9	1
10138	Diethylphthalate	84-66-2	37	7.0	21	1
10138	Dimethylphthalate	131-11-3	41	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	56	7.0	21	1
10138	Fluoranthene	206-44-0	43	0.78	1.9	1
10138	Fluorene	86-73-7	39	0.78	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217792
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	25		0.78	1.9	1
10138	1-Methylnaphthalene	90-12-0	37		0.78	1.9	1
10138	2-Methylnaphthalene	91-57-6	34		0.78	1.9	1
10138	Naphthalene	91-20-3	37		0.78	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	36		0.78	1.9	1
10138	Di-n-octylphthalate	117-84-0	70		7.0	21	1
10138	Phenanthrene	85-01-8	38		0.78	1.9	1
10138	Pyrene	129-00-0	41		0.78	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.1		1.4	4.2	1
10401	Dalapon	75-99-0	13		5.2	11	1
10401	2,4-DB	94-82-6	42		0.73	2.0	1
10401	Dicamba	1918-00-9	0.87	J	0.47	1.4	1
10401	Dinoseb	88-85-7	1.3	J	0.94	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	11		0.94	2.0	1
10401	MCPA	94-74-6	920		89	290	1
10401	MCPP (Mecoprop)	93-65-2	370		88	290	1
10401	2,4,5-T	93-76-5	0.14	J	0.096	0.20	1
10401	2,4,5-TP	93-72-1	0.67		0.088	0.20	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.22		0.077	0.20	1
01363	Alpha BHC	319-84-6	0.36		0.040	0.20	1
01363	Beta BHC	319-85-7	0.25		0.070	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.33		0.040	0.20	1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0	1
01363	p,p-DDD	72-54-8	0.66		0.077	0.40	1
01363	p,p-DDE	72-55-9	0.69		0.077	0.40	1
01363	p,p-DDT	50-29-3	1.0		0.077	0.40	1
01363	Delta BHC	319-86-8	0.25		0.042	0.20	1
01363	Dieldrin	60-57-1	0.70		0.077	0.40	1
01363	Endosulfan I	959-98-8	0.23		0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.52		0.077	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.55		0.077	0.40	1
01363	Endrin	72-20-8	0.67		0.077	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.45		0.077	0.40	1
01363	Endrin Ketone	53494-70-5	0.54		0.077	0.40	1
01363	Heptachlor	76-44-8	0.41		0.070	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.25		0.040	0.20	1
01363	Methoxychlor	72-43-5	3.7		0.40	1.9	1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217792
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	16		0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	17		0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,100		5.78	23.0	1
07914	Boron	7440-42-8	235		1.02	5.75	1
01650	Calcium	7440-70-2	3,350		7.05	23.0	1
01654	Iron	7439-89-6	23,700		5.41	23.0	1
01656	Lithium	7439-93-2	145		0.25	2.3	1
01657	Magnesium	7439-95-4	5,450		2.92	11.5	1
06958	Manganese	7439-96-5	378		0.0896	0.575	1
10145	Phosphorus	7723-14-0	522		0.644	11.5	1
01662	Potassium	7440-09-7	4,780		20.7	57.5	1
01667	Sodium	7440-23-5	1,210		42.9	115	1
07968	Strontium	7440-24-6	135		0.0713	0.575	1
06969	Tin	7440-31-5	413		1.15	11.5	1
06970	Titanium	7440-32-6	1,520		0.437	1.15	1
10146	Zirconium	7440-67-7	108		0.965	5.75	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.18		0.0703	0.234	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.7		0.0938	0.469	2
06126	Barium	7440-39-3	165		0.127	0.469	2
06127	Beryllium	7440-41-7	2.37		0.0188	0.117	2
06128	Cadmium	7440-43-9	1.87		0.0469	0.117	2
06131	Chromium	7440-47-3	48.2		0.141	0.469	2
06132	Cobalt	7440-48-4	81.2		0.0234	0.117	2
06133	Copper	7440-50-8	24.6		0.0774	0.469	2
06135	Lead	7439-92-1	19.5		0.0122	0.234	2
06138	Molybdenum	7439-98-7	21.6		0.0586	0.117	2
06139	Nickel	7440-02-0	35.2		0.117	0.469	2
06141	Selenium	7782-49-2	2.90		0.0469	0.469	2
06142	Silver	7440-22-4	18.2		0.0141	0.117	2
06145	Thallium	7440-28-0	1.02		0.0352	0.117	2
06148	Vanadium	7440-62-2	75.8		0.0258	0.117	2
06149	Zinc	7440-66-6	101		0.657	3.52	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217792
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

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Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02MS

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.213	0.0033	0.114	1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	6.5	0.94	1.2	1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	667	10.6	35.2	1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	44.4	1.2	5.9	5
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3		n.a.	14.7	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 06:52	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/17/2011 12:54	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/12/2011 14:57	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/17/2011 09:06	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 06:29	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110670001A	03/08/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690015A	03/11/2011 03:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217792
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 03:28	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 14:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 14:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 14:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 14:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	110731026001A	03/15/2011 12:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 14:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 14:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 14:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 14:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 14:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 14:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 14:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 14:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 14:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202A	03/15/2011 07:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201A	03/10/2011 06:28	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11064243201A	03/08/2011 14:01	Carrie E Miller	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202A	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201A	03/08/2011 02:00	James S Mathiot	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-087-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217793
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		20	200	1
04688	Acenaphthylene	208-96-8	1,900		20	200	1
04688	Aniline	62-53-3	2,200		200	590	1
04688	Anthracene	120-12-7	1,900		20	200	1
04688	Benzidine	92-87-5	3,000	J	1,400	3,900	1
04688	Benzo(a)anthracene	56-55-3	1,900		20	200	1
04688	Benzo(a)pyrene	50-32-8	1,900		20	200	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		20	200	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		20	200	1
04688	Benzo(k)fluoranthene	207-08-9	2,000		20	200	1
04688	Benzoic acid	65-85-0	2,100		200	590	1
04688	Benzyl alcohol	100-51-6	1,900		200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	2,000		20	200	1
04688	Butylbenzylphthalate	85-68-7	2,100		20	200	1
04688	Di-n-butylphthalate	84-74-2	2,000		20	200	1
04688	Carbazole	86-74-8	1,900		20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		39	200	1
04688	4-Chloroaniline	106-47-8	1,700		78	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,000		20	200	1
04688	2-Chloronaphthalene	91-58-7	2,000		20	200	1
04688	2-Chlorophenol	95-57-8	1,900		20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900		39	200	1
04688	Chrysene	218-01-9	1,900		20	200	1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		20	200	1
04688	Dibenzofuran	132-64-9	1,900		20	200	1
04688	1,2-Dichlorobenzene	95-50-1	1,700		20	200	1
04688	1,3-Dichlorobenzene	541-73-1	1,700		20	200	1
04688	1,4-Dichlorobenzene	106-46-7	1,700		20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,700		120	390	1
04688	2,4-Dichlorophenol	120-83-2	2,000		20	200	1
04688	Diethylphthalate	84-66-2	1,900		20	200	1
04688	2,4-Dimethylphenol	105-67-9	1,900		39	200	1
04688	3,5-Dimethylphenol	108-68-9	2,000		39	200	1
04688	Dimethylphthalate	131-11-3	1,900		20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,700		200	590	1
04688	2,4-Dinitrophenol	51-28-5	3,100		390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	2,000		39	200	1
04688	2,6-Dinitrotoluene	606-20-2	1,900		20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		20	390	1
04688	Fluoranthene	206-44-0	1,900		20	200	1
04688	Fluorene	86-73-7	1,800		20	200	1
04688	Hexachlorobenzene	118-74-1	2,000		20	200	1
04688	Hexachlorobutadiene	87-68-3	1,900		78	200	1
04688	Hexachlorocyclopentadiene	77-47-4	3,300		200	590	1
04688	Hexachloroethane	67-72-1	1,600		20	200	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		20	200	1
04688	Isophorone	78-59-1	1,900		20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217793
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,900	20	200	1
04688	2-Methylnaphthalene	91-57-6	1,900	20	200	1
04688	2-Methylphenol	95-48-7	1,900	39	200	1
04688	4-Methylphenol	106-44-5	1,800	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,800	20	200	1
04688	2-Nitroaniline	88-74-4	1,900	20	200	1
04688	3-Nitroaniline	99-09-2	1,900	39	200	1
04688	4-Nitroaniline	100-01-6	1,600	78	200	1
04688	Nitrobenzene	98-95-3	1,800	20	200	1
04688	2-Nitrophenol	88-75-5	2,000	20	200	1
04688	4-Nitrophenol	100-02-7	1,500	200	590	1
04688	N-Nitrosodimethylamine	62-75-9	1,700	39	200	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,000	20	200	1
04688	Pentachlorophenol	87-86-5	1,900	200	590	1
04688	Phenanthrene	85-01-8	1,800	20	200	1
04688	Phenol	108-95-2	1,800	20	200	1
04688	Pyrene	129-00-0	2,000	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	2,000	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	2,100	39	200	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.					
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	36	0.77	1.9	1
10138	Acenaphthylene	208-96-8	38	0.39	1.9	1
10138	Anthracene	120-12-7	37	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	38	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	39	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	62	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	18	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	47	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	55	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	43	7.0	21	1
10138	Chrysene	218-01-9	38	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	23	0.77	1.9	1
10138	Diethylphthalate	84-66-2	37	7.0	21	1
10138	Dimethylphthalate	131-11-3	40	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	62	7.0	21	1
10138	Fluoranthene	206-44-0	44	0.77	1.9	1
10138	Fluorene	86-73-7	38	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217793
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	22		0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	36		0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	33		0.77	1.9	1
10138	Naphthalene	91-20-3	36		0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	35		0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	79		7.0	21	1
10138	Phenanthrene	85-01-8	38		0.77	1.9	1
10138	Pyrene	129-00-0	42		0.77	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.3		1.4	4.2	1
10401	Dalapon	75-99-0	7.5	J	5.2	11	1
10401	2,4-DB	94-82-6	46		0.73	2.0	1
10401	Dicamba	1918-00-9	0.97	J	0.47	1.4	1
10401	Dinoseb	88-85-7	1.3	J	0.94	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	11		0.94	2.0	1
10401	MCPA	94-74-6	920		89	290	1
10401	MCPP (Mecoprop)	93-65-2	1,100		88	290	1
10401	2,4,5-T	93-76-5	0.27		0.096	0.20	1
10401	2,4,5-TP	93-72-1	0.72		0.088	0.20	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.32		0.077	0.20	1
01363	Alpha BHC	319-84-6	0.49		0.040	0.20	1
01363	Beta BHC	319-85-7	0.34		0.070	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.43		0.040	0.20	1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0	1
01363	p,p-DDD	72-54-8	0.87		0.077	0.40	1
01363	p,p-DDE	72-55-9	0.86		0.077	0.40	1
01363	p,p-DDT	50-29-3	1.3		0.077	0.40	1
01363	Delta BHC	319-86-8	0.49		0.042	0.20	1
01363	Dieldrin	60-57-1	0.94		0.077	0.40	1
01363	Endosulfan I	959-98-8	0.49		0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.64		0.077	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.72		0.077	0.40	1
01363	Endrin	72-20-8	0.91		0.077	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.60		0.077	0.40	1
01363	Endrin Ketone	53494-70-5	0.72		0.077	0.40	1
01363	Heptachlor	76-44-8	0.83		0.070	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.34		0.040	0.20	1
01363	Methoxychlor	72-43-5	5.2		0.40	1.9	1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217793
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	2.3	J	1.2	3.9	1
10225	PCB-1016	12674-11-2	16		0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	18		0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,100		5.78	23.0	1
07914	Boron	7440-42-8	238		1.02	5.75	1
01650	Calcium	7440-70-2	3,370		7.05	23.0	1
01654	Iron	7439-89-6	22,900		5.41	23.0	1
01656	Lithium	7439-93-2	145		0.25	2.3	1
01657	Magnesium	7439-95-4	5,270		2.92	11.5	1
06958	Manganese	7439-96-5	345		0.0896	0.575	1
10145	Phosphorus	7723-14-0	523		0.644	11.5	1
01662	Potassium	7440-09-7	4,610		20.7	57.5	1
01667	Sodium	7440-23-5	1,200		42.9	115	1
07968	Strontium	7440-24-6	135		0.0713	0.575	1
06969	Tin	7440-31-5	414		1.15	11.5	1
06970	Titanium	7440-32-6	1,490		0.437	1.15	1
10146	Zirconium	7440-67-7	107		0.965	5.75	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.995		0.0690	0.230	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.7		0.0919	0.460	2
06126	Barium	7440-39-3	172		0.124	0.460	2
06127	Beryllium	7440-41-7	2.44		0.0184	0.115	2
06128	Cadmium	7440-43-9	1.99		0.0464	0.116	2
06131	Chromium	7440-47-3	49.5		0.138	0.460	2
06132	Cobalt	7440-48-4	82.3		0.0230	0.115	2
06133	Copper	7440-50-8	27.5		0.0766	0.464	2
06135	Lead	7439-92-1	21.2		0.0120	0.230	2
06138	Molybdenum	7439-98-7	23.8		0.0580	0.116	2
06139	Nickel	7440-02-0	35.4		0.115	0.460	2
06141	Selenium	7782-49-2	2.96		0.0460	0.460	2
06142	Silver	7440-22-4	18.0		0.0138	0.115	2
06145	Thallium	7440-28-0	1.06		0.0345	0.115	2
06148	Vanadium	7440-62-2	78.0		0.0253	0.115	2
06149	Zinc	7440-66-6	102		0.644	3.45	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-087-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217793
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.195	0.0032	0.111	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 07:17	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/17/2011 13:24	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/12/2011 15:25	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/17/2011 09:19	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 06:52	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110670001A	03/08/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690015A	03/11/2011 03:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 03:32	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 14:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 14:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 14:57	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217793
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 14:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	110731026001A	03/15/2011 12:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 14:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 14:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 14:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 14:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 14:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 14:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 14:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 14:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 14:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-087-SA5A-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217794
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,400		5.78	23.0	1
07914	Boron	7440-42-8	6.69		1.02	5.75	1
01650	Calcium	7440-70-2	2,690		7.05	23.0	1
01654	Iron	7439-89-6	23,300		5.41	23.0	1
01656	Lithium	7439-93-2	26.3		0.25	2.3	1
01657	Magnesium	7439-95-4	4,860		2.92	11.5	1
06958	Manganese	7439-96-5	297		0.0896	0.575	1
10145	Phosphorus	7723-14-0	404		0.644	11.5	1
01662	Potassium	7440-09-7	3,260		20.7	57.5	1
01667	Sodium	7440-23-5	71.0	J	42.9	115	1
07968	Strontium	7440-24-6	19.9		0.0713	0.575	1
06969	Tin	7440-31-5	2.86	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,240		0.437	1.15	1
10146	Zirconium	7440-67-7	1.92	J	0.965	5.75	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.250		0.0696	0.232	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.00		0.0929	0.464	2
06126	Barium	7440-39-3	144		0.125	0.464	2
06127	Beryllium	7440-41-7	0.968		0.0186	0.116	2
06128	Cadmium	7440-43-9	0.191		0.0455	0.114	2
06131	Chromium	7440-47-3	30.7		0.139	0.464	2
06132	Cobalt	7440-48-4	7.66		0.0232	0.116	2
06133	Copper	7440-50-8	11.3		0.0751	0.455	2
06135	Lead	7439-92-1	13.8		0.0121	0.232	2
06138	Molybdenum	7439-98-7	1.09		0.0569	0.114	2
06139	Nickel	7440-02-0	18.2		0.116	0.464	2
06141	Selenium	7782-49-2	0.214	J	0.0464	0.464	2
06142	Silver	7440-22-4	0.0745	J	0.0139	0.116	2
06145	Thallium	7440-28-0	0.297		0.0348	0.116	2
06148	Vanadium	7440-62-2	58.0		0.0255	0.116	2
06149	Zinc	7440-66-6	78.3		0.650	3.48	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0093	J	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.94	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.23	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5A-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217794
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	406	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.52	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 03:24	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 14:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 14:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 14:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 14:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110731026001A	03/15/2011 12:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 14:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 14:51	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-087-SA5A-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217794
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE093-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 14:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 14:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 14:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 14:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 14:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 14:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 14:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202A	03/15/2011 07:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201A	03/10/2011 06:04	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11064243201A	03/08/2011 14:38	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202A	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201A	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101A	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401A	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-105-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5A-SS-0.0-0.5

LLI Sample # SW 6217795
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:22

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL105 SDG#: DE093-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzo(a)anthracene	56-55-3	42	J	20	200	1
04688	Benzo(a)pyrene	50-32-8	33	J	20	200	1
04688	Benzo(g,h,i)perylene	191-24-2	24	J	20	200	1
04688	Benzo(k)fluoranthene	207-08-9	28	J	20	200	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200	1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	78	U	78	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Chrysene	218-01-9	58	J	20	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Fluoranthene	206-44-0	81	J	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	21	J	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-105-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5A-SS-0.0-0.5

LLI Sample # SW 6217795
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:22

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL105 SDG#: DE093-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	4-Nitroaniline	100-01-6	78	U	78	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	20	U	20	200	1
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenanthrene	85-01-8	29	J	20	200	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	Pyrene	129-00-0	96	J	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.7	5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.7	5
10138	Anthracene	120-12-7	2.4	J	1.9	9.7	5
10138	Benzo(b)fluoranthene	205-99-2	51		3.9	9.7	5
10138	Dibenz(a,h)anthracene	53-70-3	3.9	U	3.9	9.7	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	100	J	35	100	5
10138	Fluorene	86-73-7	3.9	U	3.9	9.7	5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.7	5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.7	5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.7	5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.7	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	23		0.73	2.0	1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4	1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0	1
10401	MCPA	94-74-6	340	U	340	340	1
10401	MCPP (Mecoprop)	93-65-2	750		190	290	1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20	1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20	1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and MCPA.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-105-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5A-SS-0.0-0.5

LLI Sample # SW 6217795
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:22

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL105 SDG#: DE093-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20	1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20	1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0	1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40	1
01363	p,p-DDE	72-55-9	0.25	U	0.25	0.40	1
01363	p,p-DDT	50-29-3	1.6	U	1.6	1.6	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.20	1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.26	U	0.26	0.40	1
01363	Endrin	72-20-8	0.15	U	0.15	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.078	U	0.078	0.40	1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40	1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.11	U	0.11	0.20	1
01363	Methoxychlor	72-43-5	0.61	U	0.61	2.0	1
01363	Mirex	2385-85-5	0.21	U	0.21	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	28		1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	8.0		0.39	2.0	1
10225	PCB-1260	11096-82-5	4.9		0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,300		5.81	23.1	1
07914	Boron	7440-42-8	8.35		1.03	5.77	1
01650	Calcium	7440-70-2	3,480		7.08	23.1	1
01654	Iron	7439-89-6	23,800		5.44	23.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-105-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5A-SS-0.0-0.5

LLI Sample # SW 6217795
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:22

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL105 SDG#: DE093-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	24.1		0.25	2.3	1
01657	Magnesium	7439-95-4	5,230		2.93	11.5	1
06958	Manganese	7439-96-5	381		0.0901	0.577	1
10145	Phosphorus	7723-14-0	534		0.647	11.5	1
01662	Potassium	7440-09-7	3,650		20.8	57.7	1
01667	Sodium	7440-23-5	77.4	J	43.1	115	1
07968	Strontium	7440-24-6	21.5		0.0716	0.577	1
06969	Tin	7440-31-5	2.94	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,230		0.439	1.15	1
10146	Zirconium	7440-67-7	1.45	J	0.970	5.77	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.282		0.0700	0.233	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.13		0.0933	0.466	2
06126	Barium	7440-39-3	157		0.126	0.466	2
06127	Beryllium	7440-41-7	0.990		0.0187	0.117	2
06128	Cadmium	7440-43-9	0.526		0.0462	0.115	2
06131	Chromium	7440-47-3	32.7		0.140	0.466	2
06132	Cobalt	7440-48-4	9.43		0.0233	0.117	2
06133	Copper	7440-50-8	15.0		0.0762	0.462	2
06135	Lead	7439-92-1	26.1		0.0121	0.233	2
06138	Molybdenum	7439-98-7	14.5		0.0577	0.115	2
06139	Nickel	7440-02-0	21.7		0.117	0.466	2
06141	Selenium	7782-49-2	0.193	J	0.0466	0.466	2
06142	Silver	7440-22-4	0.0723	J	0.0140	0.117	2
06145	Thallium	7440-28-0	0.380		0.0350	0.117	2
06148	Vanadium	7440-62-2	59.9		0.0257	0.117	2
06149	Zinc	7440-66-6	205		0.653	3.50	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0311	J	0.0032	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.94	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.82	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	406		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-105-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5A-SS-0.0-0.5

LLI Sample # SW 6217795
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:22

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL105 SDG#: DE093-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.36	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 08:07	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/17/2011 14:26	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/12/2011 16:20	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/17/2011 09:32	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 07:15	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110670001A	03/08/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690015A	03/11/2011 03:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-105-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5A-SS-0.0-0.5

LLI Sample # SW 6217795
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:22

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL105 SDG#: DE093-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 03:52	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 15:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 15:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 15:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 15:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110731026001A	03/15/2011 12:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 15:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 15:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 15:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 15:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 15:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 15:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 15:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 15:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 15:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202A	03/15/2011 07:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201A	03/10/2011 10:28	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11064243201A	03/08/2011 14:50	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202A	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201A	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101A	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401A	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-106-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA5A-SS-0.0-0.5

LLI Sample # SW 6217796
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:05

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL106 SDG#: DE093-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA5A-SS-0.0-0.5

LLI Sample # SW 6217796
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:05

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL106 SDG#: DE093-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	1.0	U	1.0	1.9	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	1.9	1
10401	MCPA	94-74-6	87	U	87	290	1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290	1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19	1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-106-SA5A-SS-0.0-0.5

LLI Sample # SW 6217796
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:05

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL106 SDG#: DE093-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.19		0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9	1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39	1
01363	p,p-DDE	72-55-9	0.15	J	0.076	0.39	1
01363	p,p-DDT	50-29-3	0.076	U	0.076	0.39	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39	1
01363	Endrin	72-20-8	0.076	U	0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39	1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39	1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.88	J	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,400		5.70	22.7	1
07914	Boron	7440-42-8	8.26		1.01	5.67	1
01650	Calcium	7440-70-2	2,870		6.95	22.7	1
01654	Iron	7439-89-6	24,100		5.34	22.7	1
01656	Lithium	7439-93-2	26.7		0.25	2.3	1
01657	Magnesium	7439-95-4	5,190		2.88	11.3	1
06958	Manganese	7439-96-5	328		0.0885	0.567	1
10145	Phosphorus	7723-14-0	433		0.635	11.3	1
01662	Potassium	7440-09-7	3,480		20.4	56.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5A-SS-0.0-0.5

LLI Sample # SW 6217796
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:05

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL106 SDG#: DE093-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	80.5	J	42.3	113	1
07968	Strontium	7440-24-6	22.0		0.0703	0.567	1
06969	Tin	7440-31-5	2.96	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,270		0.431	1.13	1
10146	Zirconium	7440-67-7	3.12	J	0.953	5.67	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.230		0.0680	0.227	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.96		0.0907	0.454	2
06126	Barium	7440-39-3	164		0.122	0.454	2
06127	Beryllium	7440-41-7	1.19		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.167		0.0449	0.112	2
06131	Chromium	7440-47-3	35.4		0.136	0.454	2
06132	Cobalt	7440-48-4	10.1		0.0227	0.113	2
06133	Copper	7440-50-8	15.8		0.0741	0.449	2
06135	Lead	7439-92-1	11.8		0.0118	0.227	2
06138	Molybdenum	7439-98-7	1.02		0.0562	0.112	2
06139	Nickel	7440-02-0	22.2		0.113	0.454	2
06141	Selenium	7782-49-2	0.223	J	0.0454	0.454	2
06142	Silver	7440-22-4	0.0714	J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.428		0.0340	0.113	2
06148	Vanadium	7440-62-2	61.5		0.0250	0.113	2
06149	Zinc	7440-66-6	89.6		0.635	3.40	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0245	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.92	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	421		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.90		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-106-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5A-SS-0.0-0.5

LLI Sample # SW 6217796
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Collected: 02/28/2011 14:05

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Suite 210
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SL106 SDG#: DE093-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 08:32	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/17/2011 14:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/12/2011 16:47	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/17/2011 09:59	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 07:39	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110670001A	03/08/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690015A	03/11/2011 03:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 03:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 15:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 15:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 15:16	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

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SL-106-SA5A-SS-0.0-0.5

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Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL106 SDG#: DE093-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 15:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110731026001A	03/16/2011 08:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 15:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 15:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 15:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 15:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 15:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 15:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 15:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 15:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 15:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202A	03/15/2011 08:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201B	03/10/2011 10:52	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11064243201A	03/08/2011 15:03	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202A	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201B	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101A	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401A	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-107-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA5A-SS-0.0-0.5

LLI Sample # SW 6217797
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL107 SDG#: DE093-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	600	1
04688	Anthracene	120-12-7	27	J	20	200	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzo(a)anthracene	56-55-3	68	J	20	200	1
04688	Benzo(a)pyrene	50-32-8	73	J	20	200	1
04688	Benzo(b)fluoranthene	205-99-2	130	J	20	200	1
04688	Benzo(g,h,i)perylene	191-24-2	89	J	20	200	1
04688	Benzo(k)fluoranthene	207-08-9	76	J	20	200	1
04688	Benzoic acid	65-85-0	200	U	200	600	1
04688	Benzyl alcohol	100-51-6	200	U	200	600	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	22	J	20	200	1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200	1
04688	Carbazole	86-74-8	33	J	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	80	U	80	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Chrysene	218-01-9	150	J	20	200	1
04688	Dibenz(a,h)anthracene	53-70-3	38	J	20	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	54	J	20	400	1
04688	Fluoranthene	206-44-0	210		20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	72	J	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-107-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA5A-SS-0.0-0.5

LLI Sample # SW 6217797
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL107 SDG#: DE093-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	80	U	80	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	600	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	20	U	20	200	1
04688	Pentachlorophenol	87-86-5	200	U	200	600	1
04688	Phenanthrene	85-01-8	96	J	20	200	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	Pyrene	129-00-0	200	J	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.0	U	4.0	9.9	5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	9.9	5
10138	Fluorene	86-73-7	4.0	U	4.0	9.9	5
10138	1-Methylnaphthalene	90-12-0	4.0	U	4.0	9.9	5
10138	2-Methylnaphthalene	91-57-6	4.0	U	4.0	9.9	5
10138	Naphthalene	91-20-3	4.0	U	4.0	9.9	5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	9.9	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.3	U	5.3	11	1
10401	2,4-DB	94-82-6	6.6	U	6.6	6.6	1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4	1
10401	Dinoseb	88-85-7	0.95	U	0.95	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.95	U	0.95	2.0	1
10401	MCPA	94-74-6	880		91	300	1
10401	MCPP (Mecoprop)	93-65-2	89	U	89	300	1
10401	2,4,5-T	93-76-5	0.098	U	0.098	0.20	1
10401	2,4,5-TP	93-72-1	0.089	U	0.089	0.20	1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the						

Sample Description: **SL-107-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5A-SS-0.0-0.5

LLI Sample # SW 6217797
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL107 SDG#: DE093-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.39	U	0.39	0.99	5
01363	Alpha BHC	319-84-6	0.20	U	0.20	0.99	5
01363	Beta BHC	319-85-7	0.36	U	0.36	0.99	5
01363	Gamma BHC - Lindane	58-89-9	0.20	U	0.20	0.99	5
01363	Chlordane	57-74-9	10	U	10	20	5
01363	p,p-DDD	72-54-8	1.1	U	1.1	2.0	5
01363	p,p-DDE	72-55-9	0.67	U	0.67	2.0	5
01363	p,p-DDT	50-29-3	10		0.39	2.0	5
01363	Delta BHC	319-86-8	0.21	U	0.21	0.99	5
01363	Dieldrin	60-57-1	0.39	U	0.39	2.0	5
01363	Endosulfan I	959-98-8	0.26	U	0.26	0.99	5
01363	Endosulfan II	33213-65-9	0.39	U	0.39	2.0	5
01363	Endosulfan Sulfate	1031-07-8	0.39	U	0.39	2.0	5
01363	Endrin	72-20-8	0.39	U	0.39	2.0	5
01363	Endrin Aldehyde	7421-93-4	1.7	U	1.7	2.0	5
01363	Endrin Ketone	53494-70-5	0.39	U	0.39	2.0	5
01363	Heptachlor	76-44-8	0.36	U	0.36	0.99	5
01363	Heptachlor Epoxide	1024-57-3	0.76	U	0.76	0.99	5
01363	Methoxychlor	72-43-5	2.0	U	2.0	9.9	5
01363	Mirex	2385-85-5	1.4	U	1.4	2.0	5
01363	Toxaphene	8001-35-2	13	U	13	39	5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.0	U	6.0	20	5
10225	Aroclor 5442	12642-23-8	6.0	U	6.0	20	5
10225	Aroclor 5460	11126-42-4	30		6.0	20	5
10225	PCB-1016	12674-11-2	2.0	U	2.0	10	5
10225	PCB-1221	11104-28-2	2.0	U	2.0	10	5
10225	PCB-1232	11141-16-5	2.0	U	2.0	10	5
10225	PCB-1242	53469-21-9	2.0	U	2.0	10	5
10225	PCB-1248	12672-29-6	2.0	U	2.0	10	5
10225	PCB-1254	11097-69-1	15		2.0	10	5
10225	PCB-1260	11096-82-5	8.4	J	2.3	10	5
10225	PCB-1262	37324-23-5	2.0	U	2.0	10	5

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5A-SS-0.0-0.5

LLI Sample # SW 6217797
LLI Group # 1235023
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:40

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SL107 SDG#: DE093-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	2.0	U	2.0	10	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		5.77	22.9	1
07914	Boron	7440-42-8	9.52		1.02	5.74	1
01650	Calcium	7440-70-2	5,170		7.03	22.9	1
01654	Iron	7439-89-6	23,000		5.40	22.9	1
01656	Lithium	7439-93-2	20.9		0.25	2.3	1
01657	Magnesium	7439-95-4	4,910		2.91	11.5	1
06958	Manganese	7439-96-5	334		0.0895	0.574	1
10145	Phosphorus	7723-14-0	637		0.643	11.5	1
01662	Potassium	7440-09-7	3,790		20.7	57.4	1
01667	Sodium	7440-23-5	103	J	42.8	115	1
07968	Strontium	7440-24-6	27.2		0.0711	0.574	1
06969	Tin	7440-31-5	3.14	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,220		0.436	1.15	1
10146	Zirconium	7440-67-7	1.64	J	0.964	5.74	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.206	J	0.0695	0.232	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.96		0.0927	0.463	2
06126	Barium	7440-39-3	140		0.125	0.463	2
06127	Beryllium	7440-41-7	0.634		0.0185	0.116	2
06128	Cadmium	7440-43-9	0.750		0.0473	0.118	2
06131	Chromium	7440-47-3	25.3		0.139	0.463	2
06132	Cobalt	7440-48-4	7.36		0.0232	0.116	2
06133	Copper	7440-50-8	18.4		0.0780	0.473	2
06135	Lead	7439-92-1	59.7		0.0120	0.232	2
06138	Molybdenum	7439-98-7	1.41		0.0591	0.118	2
06139	Nickel	7440-02-0	18.5		0.116	0.463	2
06141	Selenium	7782-49-2	0.180	J	0.0463	0.463	2
06142	Silver	7440-22-4	0.106	J	0.0139	0.116	2
06145	Thallium	7440-28-0	0.264		0.0348	0.116	2
06148	Vanadium	7440-62-2	49.3		0.0255	0.116	2
06149	Zinc	7440-66-6	131		0.649	3.48	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0308	J	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-107-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA5A-SS-0.0-0.5

LLI Sample # SW 6217797
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

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SL107 SDG#: DE093-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.92	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	444		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.11		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.2		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 08:57	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/17/2011 15:27	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/12/2011 17:15	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/18/2011 23:08	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 08:02	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110670001A	03/08/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690015A	03/11/2011 03:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5A-SS-0.0-0.5

LLI Sample # SW 6217797
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL107 SDG#: DE093-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 04:00	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 15:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 15:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 15:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 15:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110731026001A	03/15/2011 12:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 15:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 15:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 15:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 15:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 15:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 15:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 15:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 15:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 15:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202A	03/15/2011 08:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201B	03/10/2011 12:29	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11064243201A	03/08/2011 15:15	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202A	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201B	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101A	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401A	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-108-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5A-SS-0.0-0.5

LLI Sample # SW 6217798
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:56

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL108 SDG#: DE093-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	600	1
04688	Benzyl alcohol	100-51-6	200	U	200	600	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200	1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	81	U	81	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	20	400	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	81	U	81	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	600	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-108-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5A-SS-0.0-0.5

LLI Sample # SW 6217798
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:56

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL108 SDG#: DE093-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	20	U	20	200	1
04688	Pentachlorophenol	87-86-5	200	U	200	600	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.0	U	4.0	10	5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	10	5
10138	Anthracene	120-12-7	2.4	J	2.0	10	5
10138	Benzo(a)anthracene	56-55-3	18		4.0	10	5
10138	Benzo(a)pyrene	50-32-8	17		4.0	10	5
10138	Benzo(b)fluoranthene	205-99-2	46		4.0	10	5
10138	Benzo(g,h,i)perylene	191-24-2	8.7	J	4.0	10	5
10138	Benzo(k)fluoranthene	207-08-9	18		4.0	10	5
10138	Chrysene	218-01-9	36		2.0	10	5
10138	Dibenz(a,h)anthracene	53-70-3	4.0	U	4.0	10	5
10138	Fluoranthene	206-44-0	70		4.0	10	5
10138	Fluorene	86-73-7	4.0	U	4.0	10	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	8.3	J	4.0	10	5
10138	1-Methylnaphthalene	90-12-0	4.0	U	4.0	10	5
10138	2-Methylnaphthalene	91-57-6	4.0	U	4.0	10	5
10138	Naphthalene	91-20-3	4.0	U	4.0	10	5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	10	5
10138	Phenanthrene	85-01-8	22		4.0	10	5
10138	Pyrene	129-00-0	64		4.0	10	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.4	1
10401	Dalapon	75-99-0	5.3	U	5.3	11	1
10401	2,4-DB	94-82-6	0.75	U	0.75	2.1	1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.5	1
10401	Dinoseb	88-85-7	0.97	U	0.97	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.97	U	0.97	2.1	1
10401	MCPA	94-74-6	450		92	300	1
10401	MCPP (Mecoprop)	93-65-2	97	U	97	300	1
10401	2,4,5-T	93-76-5	0.099	U	0.099	0.21	1
10401	2,4,5-TP	93-72-1	0.091	U	0.091	0.21	1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these						

Sample Description: **SL-108-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5A-SS-0.0-0.5

LLI Sample # SW 6217798
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:56

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL108 SDG#: DE093-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	cases, the reporting limits have been raised. The following compounds were affected: MCPP.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.080	U	0.080	0.20	1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20	1
01363	Beta BHC	319-85-7	0.073	U	0.073	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20	1
01363	Chlordane	57-74-9	1.7	U	1.7	4.1	1
01363	p,p-DDD	72-54-8	0.25	U	0.25	0.41	1
01363	p,p-DDE	72-55-9	2.5		0.080	0.41	1
01363	p,p-DDT	50-29-3	4.8		0.40	2.1	5
01363	Delta BHC	319-86-8	0.044	U	0.044	0.20	1
01363	Dieldrin	60-57-1	0.080	U	0.080	0.41	1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20	1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.41	1
01363	Endosulfan Sulfate	1031-07-8	0.080	U	0.080	0.41	1
01363	Endrin	72-20-8	0.080	U	0.080	0.41	1
01363	Endrin Aldehyde	7421-93-4	0.19	U	0.19	0.41	1
01363	Endrin Ketone	53494-70-5	0.36	U	0.36	0.41	1
01363	Heptachlor	76-44-8	0.073	U	0.073	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.20	1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0	1
01363	Mirex	2385-85-5	0.58	U	0.58	0.58	1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0	1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1	1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1	1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1	1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1	1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1	1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1	1
10225	PCB-1260	11096-82-5	0.72	J	0.47	2.1	1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1	1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.03	24.0	1
07914	Boron	7440-42-8	6.30		1.07	5.99	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-108-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5A-SS-0.0-0.5

LLI Sample # SW 6217798
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:56

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL108 SDG#: DE093-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,860		7.35	24.0	1
01654	Iron	7439-89-6	21,400		5.65	24.0	1
01656	Lithium	7439-93-2	25.9		0.26	2.4	1
01657	Magnesium	7439-95-4	4,980		3.04	12.0	1
06958	Manganese	7439-96-5	286		0.0935	0.599	1
10145	Phosphorus	7723-14-0	501		0.671	12.0	1
01662	Potassium	7440-09-7	2,960		21.6	59.9	1
01667	Sodium	7440-23-5	70.1	J	44.7	120	1
07968	Strontium	7440-24-6	16.2		0.0743	0.599	1
06969	Tin	7440-31-5	2.90	J	1.20	12.0	1
06970	Titanium	7440-32-6	1,220		0.455	1.20	1
10146	Zirconium	7440-67-7	1.01	U	1.01	5.99	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.280		0.0726	0.242	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.54		0.0969	0.484	2
06126	Barium	7440-39-3	117		0.131	0.484	2
06127	Beryllium	7440-41-7	0.825		0.0194	0.121	2
06128	Cadmium	7440-43-9	0.112	J	0.0466	0.116	2
06131	Chromium	7440-47-3	25.8		0.145	0.484	2
06132	Cobalt	7440-48-4	7.48		0.0242	0.121	2
06133	Copper	7440-50-8	12.3		0.0768	0.466	2
06135	Lead	7439-92-1	27.8		0.0126	0.242	2
06138	Molybdenum	7439-98-7	0.801		0.0582	0.116	2
06139	Nickel	7440-02-0	18.2		0.121	0.484	2
06141	Selenium	7782-49-2	0.233	J	0.0484	0.484	2
06142	Silver	7440-22-4	0.0506	J	0.0145	0.121	2
06145	Thallium	7440-28-0	0.326		0.0363	0.121	2
06148	Vanadium	7440-62-2	51.4		0.0266	0.121	2
06149	Zinc	7440-66-6	104		0.678	3.63	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0177	J	0.0033	0.115	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.97	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.55	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-108-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5A-SS-0.0-0.5

LLI Sample # SW 6217798
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:56

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL108 SDG#: DE093-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	439	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.89	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 09:21	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/17/2011 15:58	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/12/2011 17:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/18/2011 23:35	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/18/2011 23:48	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 08:25	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110670001A	03/08/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690015A	03/11/2011 03:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-108-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5A-SS-0.0-0.5

LLI Sample # SW 6217798
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:56

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL108 SDG#: DE093-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 04:04	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 15:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 15:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 15:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 15:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	110731026001A	03/16/2011 08:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 15:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 15:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 15:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 15:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 15:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 15:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 15:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 15:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 15:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202A	03/15/2011 08:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201B	03/10/2011 12:53	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11064243201A	03/08/2011 15:34	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202A	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201B	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101A	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401A	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-109-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA5A-SS-0.0-0.5

LLI Sample # SW 6217799
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:12

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL109 SDG#: DE093-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	78	U	78	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	20	390	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	78	U	78	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5A-SS-0.0-0.5

LLI Sample # SW 6217799
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:12

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL109 SDG#: DE093-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0	1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0	1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0	1
10138	Di-n-octylphthalate	117-84-0	13	J	7.0	21	1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0	1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	16		0.73	2.0	1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4	1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0	1
10401	MCPA	94-74-6	160	J	89	290	1
10401	MCPP (Mecoprop)	93-65-2	110	U	110	290	1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20	1
10401	2,4,5-TP	93-72-1	0.29		0.088	0.20	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

Sample Description: **SL-109-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5A-SS-0.0-0.5

LLI Sample # SW 6217799
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:12

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL109 SDG#: DE093-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
compounds were affected: MCPP.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19	1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19	1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0	1
01363	p,p-DDD	72-54-8	0.11	U	0.11	0.40	1
01363	p,p-DDE	72-55-9	1.3		0.077	0.40	1
01363	p,p-DDT	50-29-3	3.0		0.077	0.40	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19	1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.19	1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40	1
01363	Endrin	72-20-8	0.077	U	0.077	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40	1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40	1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9	1
01363	Mirex	2385-85-5	0.22	U	0.22	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7	1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.7	2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.7	2
10225	Aroclor 5460	11126-42-4	14		2.3	7.7	2
10225	PCB-1016	12674-11-2	0.77	U	0.77	4.0	2
10225	PCB-1221	11104-28-2	0.77	U	0.77	4.0	2
10225	PCB-1232	11141-16-5	0.77	U	0.77	4.0	2
10225	PCB-1242	53469-21-9	0.77	U	0.77	4.0	2
10225	PCB-1248	12672-29-6	0.77	U	0.77	4.0	2
10225	PCB-1254	11097-69-1	3.4	J	0.77	4.0	2
10225	PCB-1260	11096-82-5	2.7	J	0.92	4.0	2
10225	PCB-1262	37324-23-5	0.77	U	0.77	4.0	2
10225	PCB-1268	11100-14-4	0.77	U	0.77	4.0	2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.79	23.0	1
07914	Boron	7440-42-8	5.91		1.02	5.75	1
01650	Calcium	7440-70-2	2,740		7.05	23.0	1
01654	Iron	7439-89-6	19,700		5.42	23.0	1
01656	Lithium	7439-93-2	26.9		0.25	2.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5A-SS-0.0-0.5

LLI Sample # SW 6217799
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:12

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL109 SDG#: DE093-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,690		2.92	11.5	1
06958	Manganese	7439-96-5	285		0.0898	0.575	1
10145	Phosphorus	7723-14-0	431		0.644	11.5	1
01662	Potassium	7440-09-7	2,880		20.7	57.5	1
01667	Sodium	7440-23-5	68.1	J	42.9	115	1
07968	Strontium	7440-24-6	13.4		0.0713	0.575	1
06969	Tin	7440-31-5	2.63	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,160		0.437	1.15	1
10146	Zirconium	7440-67-7	1.08	J	0.967	5.75	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.197	J	0.0697	0.232	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.77		0.0930	0.465	2
06126	Barium	7440-39-3	95.5		0.126	0.465	2
06127	Beryllium	7440-41-7	0.603		0.0186	0.116	2
06128	Cadmium	7440-43-9	0.214		0.0460	0.115	2
06131	Chromium	7440-47-3	27.6		0.139	0.465	2
06132	Cobalt	7440-48-4	6.46		0.0232	0.116	2
06133	Copper	7440-50-8	14.2		0.0759	0.460	2
06135	Lead	7439-92-1	17.9		0.0121	0.232	2
06138	Molybdenum	7439-98-7	6.42		0.0575	0.115	2
06139	Nickel	7440-02-0	15.1		0.116	0.465	2
06141	Selenium	7782-49-2	0.136	J	0.0465	0.465	2
06142	Silver	7440-22-4	0.135		0.0139	0.116	2
06145	Thallium	7440-28-0	0.250		0.0349	0.116	2
06148	Vanadium	7440-62-2	45.1		0.0256	0.116	2
06149	Zinc	7440-66-6	88.6		0.651	3.49	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0196	J	0.0033	0.115	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.94	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	6.6		0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	448		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5A-SS-0.0-0.5

LLI Sample # SW 6217799
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:12

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL109 SDG#: DE093-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.11	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	14.8	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 09:46	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/17/2011 23:38	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/12/2011 18:10	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/19/2011 00:02	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 08:48	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110670001A	03/08/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690015A	03/11/2011 03:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA5A-SS-0.0-0.5

LLI Sample # SW 6217799
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:12

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL109 SDG#: DE093-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 04:08	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 15:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 15:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 15:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 15:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110731026001A	03/15/2011 12:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 15:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 15:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 15:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 15:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 15:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 15:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 15:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 15:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 15:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202A	03/15/2011 09:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201B	03/10/2011 13:17	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11064243201A	03/08/2011 15:59	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202A	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201B	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101A	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401A	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-111-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5A-SS-0.0-0.5

LLI Sample # SW 6217800
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 10:25

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL111 SDG#: DE093-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	210	U	210	630	1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200	1
04688	Benzoic acid	65-85-0	210	U	210	630	1
04688	Benzyl alcohol	100-51-6	210	U	210	630	1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210	1
04688	Carbazole	86-74-8	21	U	21	210	1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210	1
04688	4-Chloroaniline	106-47-8	85	U	85	210	1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210	1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210	1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210	1
04688	2-Chlorophenol	95-57-8	21	U	21	210	1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210	1
04688	Dibenzofuran	132-64-9	21	U	21	210	1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210	1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210	1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210	1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	420	1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210	1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210	1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	630	1
04688	2,4-Dinitrophenol	51-28-5	420	U	420	1,300	1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210	1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210	1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210	1
04688	Hexachlorobenzene	118-74-1	21	U	21	210	1
04688	Hexachlorobutadiene	87-68-3	85	U	85	210	1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	630	1
04688	Hexachloroethane	67-72-1	21	U	21	210	1
04688	Isophorone	78-59-1	21	U	21	210	1
04688	2-Methylphenol	95-48-7	42	U	42	210	1
04688	4-Methylphenol	106-44-5	42	U	42	210	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	21	U	21	210	1
04688	3-Nitroaniline	99-09-2	42	U	42	210	1
04688	4-Nitroaniline	100-01-6	85	U	85	210	1
04688	Nitrobenzene	98-95-3	21	U	21	210	1
04688	2-Nitrophenol	88-75-5	21	U	21	210	1
04688	4-Nitrophenol	100-02-7	210	U	210	630	1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210	1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	210	U	210	630	1
04688	Phenol	108-95-2	21	U	21	210	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-111-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5A-SS-0.0-0.5

LLI Sample # SW 6217800
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 10:25

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL111 SDG#: DE093-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210	1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210	1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.83	U	0.83	2.1	1
10138	Acenaphthylene	208-96-8	0.42	U	0.42	2.1	1
10138	Anthracene	120-12-7	0.51	J	0.42	2.1	1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.83	2.1	1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.83	2.1	1
10138	Benzo(b)fluoranthene	205-99-2	7.1		0.83	2.1	1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.83	2.1	1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.83	2.1	1
10138	Butylbenzylphthalate	85-68-7	7.5	U	7.5	22	1
10138	Di-n-butylphthalate	84-74-2	7.5	U	7.5	22	1
10138	Chrysene	218-01-9	3.2		0.42	2.1	1
10138	Dibenz(a,h)anthracene	53-70-3	0.83	U	0.83	2.1	1
10138	Diethylphthalate	84-66-2	7.5	U	7.5	22	1
10138	Dimethylphthalate	131-11-3	7.5	U	7.5	22	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45		7.5	22	1
10138	Fluoranthene	206-44-0	3.7		0.83	2.1	1
10138	Fluorene	86-73-7	0.83	U	0.83	2.1	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.94	J	0.83	2.1	1
10138	1-Methylnaphthalene	90-12-0	0.83	U	0.83	2.1	1
10138	2-Methylnaphthalene	91-57-6	0.83	U	0.83	2.1	1
10138	Naphthalene	91-20-3	0.83	U	0.83	2.1	1
10138	N-Nitrosodimethylamine	62-75-9	0.83	U	0.83	2.1	1
10138	Di-n-octylphthalate	117-84-0	12	J	7.5	22	1
10138	Phenanthrene	85-01-8	1.5	J	0.83	2.1	1
10138	Pyrene	129-00-0	3.0		0.83	2.1	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.6	1
10401	Dalapon	75-99-0	5.6	U	5.6	11	1
10401	2,4-DB	94-82-6	6.2	U	6.2	6.2	1
10401	Dicamba	1918-00-9	0.51	U	0.51	1.5	1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.0	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	U	1.0	2.2	1
10401	MCPA	94-74-6	960		96	320	1
10401	MCPP (Mecoprop)	93-65-2	280	U	280	320	1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.22	1
10401	2,4,5-TP	93-72-1	0.12	U	0.12	0.22	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-111-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5A-SS-0.0-0.5

LLI Sample # SW 6217800
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 10:25

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL111 SDG#: DE093-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.084	U	0.084	0.21	1
01363	Alpha BHC	319-84-6	0.043	U	0.043	0.21	1
01363	Beta BHC	319-85-7	0.076	U	0.076	0.21	1
01363	Gamma BHC - Lindane	58-89-9	0.043	U	0.043	0.21	1
01363	Chlordane	57-74-9	1.0	U	1.0	4.3	1
01363	p,p-DDD	72-54-8	0.084	U	0.084	0.43	1
01363	p,p-DDE	72-55-9	2.9		0.42	2.2	5
01363	p,p-DDT	50-29-3	2.6		0.084	0.43	1
01363	Delta BHC	319-86-8	0.046	U	0.046	0.21	1
01363	Dieldrin	60-57-1	0.084	U	0.084	0.43	1
01363	Endosulfan I	959-98-8	0.056	U	0.056	0.21	1
01363	Endosulfan II	33213-65-9	0.26	U	0.26	0.43	1
01363	Endosulfan Sulfate	1031-07-8	0.084	U	0.084	0.43	1
01363	Endrin	72-20-8	0.084	U	0.084	0.43	1
01363	Endrin Aldehyde	7421-93-4	0.084	U	0.084	0.43	1
01363	Endrin Ketone	53494-70-5	0.084	U	0.084	0.43	1
01363	Heptachlor	76-44-8	0.076	U	0.076	0.21	1
01363	Heptachlor Epoxide	1024-57-3	0.043	U	0.043	0.21	1
01363	Methoxychlor	72-43-5	0.43	U	0.43	2.1	1
01363	Mirex	2385-85-5	0.53	U	0.53	0.53	1
01363	Toxaphene	8001-35-2	2.8	U	2.8	8.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.3	U	6.3	21	5
10225	Aroclor 5442	12642-23-8	6.3	U	6.3	21	5
10225	Aroclor 5460	11126-42-4	16	J	6.3	21	5
10225	PCB-1016	12674-11-2	2.1	U	2.1	11	5
10225	PCB-1221	11104-28-2	2.1	U	2.1	11	5
10225	PCB-1232	11141-16-5	2.1	U	2.1	11	5
10225	PCB-1242	53469-21-9	2.1	U	2.1	11	5
10225	PCB-1248	12672-29-6	2.1	U	2.1	11	5
10225	PCB-1254	11097-69-1	2.1	U	2.1	11	5
10225	PCB-1260	11096-82-5	5.8	J	2.5	11	5
10225	PCB-1262	37324-23-5	2.1	U	2.1	11	5
10225	PCB-1268	11100-14-4	2.1	U	2.1	11	5

Reporting limits were raised due to interference from the sample matrix.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,400		6.20	24.6	1
07914	Boron	7440-42-8	5.28	J	1.10	6.16	1
01650	Calcium	7440-70-2	2,250		7.55	24.6	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-111-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5A-SS-0.0-0.5

LLI Sample # SW 6217800
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 10:25

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL111 SDG#: DE093-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	13,500		5.80	24.6	1
01656	Lithium	7439-93-2	13.9		0.27	2.5	1
01657	Magnesium	7439-95-4	2,790		3.13	12.3	1
06958	Manganese	7439-96-5	228		0.0961	0.616	1
10145	Phosphorus	7723-14-0	324		0.690	12.3	1
01662	Potassium	7440-09-7	2,430		22.2	61.6	1
01667	Sodium	7440-23-5	52.1	J	46.0	123	1
07968	Strontium	7440-24-6	18.3		0.0764	0.616	1
06969	Tin	7440-31-5	2.62	J	1.23	12.3	1
06970	Titanium	7440-32-6	872		0.468	1.23	1
10146	Zirconium	7440-67-7	1.03	U	1.03	6.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.202	J	0.0754	0.251	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.97		0.101	0.503	2
06126	Barium	7440-39-3	109		0.136	0.503	2
06127	Beryllium	7440-41-7	0.623		0.0201	0.126	2
06128	Cadmium	7440-43-9	0.226		0.0498	0.124	2
06131	Chromium	7440-47-3	21.9		0.151	0.503	2
06132	Cobalt	7440-48-4	5.56		0.0251	0.126	2
06133	Copper	7440-50-8	7.75		0.0821	0.498	2
06135	Lead	7439-92-1	33.9		0.0131	0.251	2
06138	Molybdenum	7439-98-7	0.637		0.0622	0.124	2
06139	Nickel	7440-02-0	11.6		0.126	0.503	2
06141	Selenium	7782-49-2	0.0990	J	0.0503	0.503	2
06142	Silver	7440-22-4	0.414		0.0151	0.126	2
06145	Thallium	7440-28-0	0.281		0.0377	0.126	2
06148	Vanadium	7440-62-2	35.8		0.0276	0.126	2
06149	Zinc	7440-66-6	143		0.704	3.77	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0331	J	0.0035	0.121	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		1.0	1.3	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.4	U	11.4	38.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	J	0.25	1.3	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	478		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-111-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5A-SS-0.0-0.5

LLI Sample # SW 6217800
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 10:25

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL111 SDG#: DE093-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.52	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	21.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 10:11	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/18/2011 00:09	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/12/2011 19:33	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/19/2011 00:31	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/19/2011 00:45	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 09:11	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110670001A	03/08/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690015A	03/11/2011 03:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-111-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5A-SS-0.0-0.5

LLI Sample # SW 6217800
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 10:25

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL111 SDG#: DE093-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 04:12	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 15:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 15:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 15:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 15:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	110731026001A	03/16/2011 08:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 15:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 15:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 15:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 15:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 15:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 15:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 15:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 15:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 15:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202A	03/15/2011 09:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201B	03/10/2011 13:41	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11064243201A	03/08/2011 16:11	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202A	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201B	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101A	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401A	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-145-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5A-SS-0.0-0.5

LLI Sample # SW 6217801
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 09:42

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL145 SDG#: DE093-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	19	390	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-145-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5A-SS-0.0-0.5

LLI Sample # SW 6217801
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 09:42

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL145 SDG#: DE093-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.5	5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.5	5
10138	Anthracene	120-12-7	1.9	U	1.9	9.5	5
10138	Benzo(a)anthracene	56-55-3	6.7	J	3.8	9.5	5
10138	Benzo(a)pyrene	50-32-8	7.3	J	3.8	9.5	5
10138	Benzo(b)fluoranthene	205-99-2	16		3.8	9.5	5
10138	Benzo(g,h,i)perylene	191-24-2	4.0	J	3.8	9.5	5
10138	Benzo(k)fluoranthene	207-08-9	5.3	J	3.8	9.5	5
10138	Chrysene	218-01-9	11		1.9	9.5	5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.5	5
10138	Fluoranthene	206-44-0	17		3.8	9.5	5
10138	Fluorene	86-73-7	3.8	U	3.8	9.5	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.5	5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.5	5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.5	5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.5	5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.5	5
10138	Phenanthrene	85-01-8	6.7	J	3.8	9.5	5
10138	Pyrene	129-00-0	11		3.8	9.5	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2	1
10401	Dalapon	75-99-0	5.1	U	5.1	10	1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0	1
10401	MCPA	94-74-6	680		88	290	1
10401	MCPP (Mecoprop)	93-65-2	240	U	240	290	1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20	1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20	1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these						

Sample Description: **SL-145-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5A-SS-0.0-0.5

LLI Sample # SW 6217801
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 09:42

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL145 SDG#: DE093-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	cases, the reporting limits have been raised. The following compounds were affected: MCPP.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	0.93	U	0.93	3.9	1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39	1
01363	p,p-DDE	72-55-9	0.28	U	0.28	0.39	1
01363	p,p-DDT	50-29-3	0.70		0.076	0.39	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19	1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39	1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19	1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39	1
01363	Endrin	72-20-8	0.076	U	0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.39	1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39	1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.15	U	0.15	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	22		1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	2.9		0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria for the BKG/MS/MSD associated with the sample. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-145-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5A-SS-0.0-0.5

LLI Sample # SW 6217801
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 09:42

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL145 SDG#: DE093-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		5.60	22.3	1
07914	Boron	7440-42-8	5.87		0.990	5.56	1
01650	Calcium	7440-70-2	2,390		6.82	22.3	1
01654	Iron	7439-89-6	18,900		5.24	22.3	1
01656	Lithium	7439-93-2	22.3		0.24	2.2	1
01657	Magnesium	7439-95-4	4,210		2.83	11.1	1
06958	Manganese	7439-96-5	301		0.0868	0.556	1
10145	Phosphorus	7723-14-0	340		0.623	11.1	1
01662	Potassium	7440-09-7	2,770		20.0	55.6	1
01667	Sodium	7440-23-5	59.1	J	41.5	111	1
07968	Strontium	7440-24-6	20.4		0.0690	0.556	1
06969	Tin	7440-31-5	2.72	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,140		0.423	1.11	1
10146	Zirconium	7440-67-7	1.01	J	0.935	5.56	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.190	J	0.0674	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.20		0.0899	0.449	2
06126	Barium	7440-39-3	105		0.121	0.449	2
06127	Beryllium	7440-41-7	0.728		0.0180	0.112	2
06128	Cadmium	7440-43-9	0.173		0.0458	0.115	2
06131	Chromium	7440-47-3	21.1		0.135	0.449	2
06132	Cobalt	7440-48-4	6.30		0.0225	0.112	2
06133	Copper	7440-50-8	8.68		0.0756	0.458	2
06135	Lead	7439-92-1	9.64		0.0117	0.225	2
06138	Molybdenum	7439-98-7	0.691		0.0573	0.115	2
06139	Nickel	7440-02-0	12.8		0.112	0.449	2
06141	Selenium	7782-49-2	0.108	J	0.0449	0.449	2
06142	Silver	7440-22-4	0.620		0.0135	0.112	2
06145	Thallium	7440-28-0	0.337		0.0337	0.112	2
06148	Vanadium	7440-62-2	41.9		0.0247	0.112	2
06149	Zinc	7440-66-6	75.3		0.629	3.37	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0707	J	0.0033	0.115	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.23	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-145-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5A-SS-0.0-0.5

LLI Sample # SW 6217801
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 09:42

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL145 SDG#: DE093-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	515	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.09	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 10:36	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/18/2011 00:40	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/12/2011 20:00	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/19/2011 00:59	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110670010A	03/15/2011 14:10	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110670001A	03/08/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110670010A	03/08/2011 18:40	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690015A	03/11/2011 03:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-145-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5A-SS-0.0-0.5

LLI Sample # SW 6217801
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 09:42

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL145 SDG#: DE093-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 04:16	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 15:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 15:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 15:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 15:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110731026001A	03/15/2011 12:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 15:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 15:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 15:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 15:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 15:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 15:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 15:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 15:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 15:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202A	03/15/2011 10:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201B	03/10/2011 14:05	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11064243201A	03/08/2011 16:17	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202A	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201B	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101A	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401A	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-253-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SS-0.0-0.5

LLI Sample # SW 6217802
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 11:10

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE093-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	600	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	600	1
04688	Benzyl alcohol	100-51-6	200	U	200	600	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	80	U	80	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	80	U	80	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	600	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	600	1
04688	Phenol	108-95-2	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-253-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SS-0.0-0.5

LLI Sample # SW 6217802
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 11:10

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE093-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0	1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	11		0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	12		0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21	1
10138	Chrysene	218-01-9	3.1		0.40	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	7.1	21	1
10138	Fluoranthene	206-44-0	2.7		0.79	2.0	1
10138	Fluorene	86-73-7	1.6	J	0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	1.3	J	0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	1.4	J	0.79	2.0	1
10138	Naphthalene	91-20-3	3.6		0.79	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	11	J	7.1	21	1
10138	Phenanthrene	85-01-8	2.6		0.79	2.0	1
10138	Pyrene	129-00-0	1.9	J	0.79	2.0	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.0	J	1.4	4.3	1
10401	Dalapon	75-99-0	5.3	U	5.3	11	1
10401	2,4-DB	94-82-6	4.3	U	4.3	4.3	1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4	1
10401	Dinoseb	88-85-7	0.97	U	0.97	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.1	J	0.97	2.1	1
10401	MCPA	94-74-6	2,300		92	300	1
10401	MCPP (Mecoprop)	93-65-2	91	U	91	300	1
10401	2,4,5-T	93-76-5	0.37		0.099	0.21	1
10401	2,4,5-TP	93-72-1	0.38		0.091	0.21	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-253-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SS-0.0-0.5

LLI Sample # SW 6217802
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 11:10

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE093-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.080	U	0.080	0.20	1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20	1
01363	Beta BHC	319-85-7	0.072	U	0.072	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20	1
01363	Chlordane	57-74-9	0.97	U	0.97	4.1	1
01363	p,p-DDD	72-54-8	0.26	U	0.26	0.41	1
01363	p,p-DDE	72-55-9	11		0.40	2.1	5
01363	p,p-DDT	50-29-3	7.8		0.40	2.1	5
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20	1
01363	Dieldrin	60-57-1	0.080	U	0.080	0.41	1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20	1
01363	Endosulfan II	33213-65-9	0.14	U	0.14	0.41	1
01363	Endosulfan Sulfate	1031-07-8	0.080	U	0.080	0.41	1
01363	Endrin	72-20-8	0.080	U	0.080	0.41	1
01363	Endrin Aldehyde	7421-93-4	0.080	U	0.080	0.41	1
01363	Endrin Ketone	53494-70-5	0.080	U	0.080	0.41	1
01363	Heptachlor	76-44-8	0.21	U	0.21	0.21	1
01363	Heptachlor Epoxide	1024-57-3	0.048	U	0.048	0.20	1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0	1
01363	Mirex	2385-85-5	0.42	U	0.42	0.42	1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.0	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0	1
10225	Aroclor 5460	11126-42-4	3.2	J	1.2	4.0	1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1	1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1	1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1	1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1	1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1	1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1	1
10225	PCB-1260	11096-82-5	1.1	J	0.47	2.1	1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1	1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,500		5.96	23.7	1
07914	Boron	7440-42-8	7.76		1.05	5.92	1
01650	Calcium	7440-70-2	3,640		7.26	23.7	1
01654	Iron	7439-89-6	16,400		5.58	23.7	1
01656	Lithium	7439-93-2	16.9		0.26	2.4	1
01657	Magnesium	7439-95-4	3,700		3.01	11.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-253-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SS-0.0-0.5

LLI Sample # SW 6217802
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 11:10

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE093-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	307		0.0924	0.592	1
10145	Phosphorus	7723-14-0	425		0.663	11.8	1
01662	Potassium	7440-09-7	3,720		21.3	59.2	1
01667	Sodium	7440-23-5	55.6	J	44.2	118	1
07968	Strontium	7440-24-6	30.4		0.0734	0.592	1
06969	Tin	7440-31-5	2.74	J	1.18	11.8	1
06970	Titanium	7440-32-6	1,060		0.450	1.18	1
10146	Zirconium	7440-67-7	0.995	U	0.995	5.92	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.235		0.0704	0.235	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.62		0.0938	0.469	2
06126	Barium	7440-39-3	141		0.127	0.469	2
06127	Beryllium	7440-41-7	0.651		0.0188	0.117	2
06128	Cadmium	7440-43-9	0.409		0.0478	0.120	2
06131	Chromium	7440-47-3	19.6		0.141	0.469	2
06132	Cobalt	7440-48-4	5.83		0.0235	0.117	2
06133	Copper	7440-50-8	12.6		0.0789	0.478	2
06135	Lead	7439-92-1	17.9		0.0122	0.235	2
06138	Molybdenum	7439-98-7	1.20		0.0598	0.120	2
06139	Nickel	7440-02-0	12.5		0.117	0.469	2
06141	Selenium	7782-49-2	0.147	J	0.0469	0.469	2
06142	Silver	7440-22-4	1.04		0.0141	0.117	2
06145	Thallium	7440-28-0	0.314		0.0352	0.117	2
06148	Vanadium	7440-62-2	37.2		0.0258	0.117	2
06149	Zinc	7440-66-6	81.2		0.657	3.52	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0272	J	0.0034	0.118	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.97	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	392		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-253-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SS-0.0-0.5

LLI Sample # SW 6217802
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 11:10

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE093-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.17	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	17.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 11:01	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/18/2011 01:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/12/2011 20:28	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/19/2011 01:27	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/19/2011 01:43	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 09:35	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110670001A	03/08/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690015A	03/11/2011 03:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-253-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SS-0.0-0.5

LLI Sample # SW 6217802
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE093-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 04:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 15:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 15:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 15:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 15:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110731026001A	03/15/2011 12:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 15:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 15:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 15:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 15:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 15:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 15:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 15:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 15:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 15:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202A	03/15/2011 10:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201B	03/10/2011 14:29	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11064243201A	03/08/2011 16:36	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202A	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201B	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101B	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401B	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-255-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA5A-SS-0.0-0.5

LLI Sample # SW 6217803
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:58

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE093-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-255-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA5A-SS-0.0-0.5

LLI Sample # SW 6217803
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:58

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE093-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	10	J	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.7	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8	1
10401	MCPA	94-74-6	82	U	82	270	1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-255-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA5A-SS-0.0-0.5

LLI Sample # SW 6217803
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:58

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE093-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37	1
01363	p,p-DDE	72-55-9	0.21	U	0.21	0.37	1
01363	p,p-DDT	50-29-3	0.70	U	0.70	0.70	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.27	U	0.27	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37	1
01363	Endrin	72-20-8	0.071	U	0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.15	U	0.15	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.4	U	5.4	18	5
10225	Aroclor 5442	12642-23-8	5.4	U	5.4	18	5
10225	Aroclor 5460	11126-42-4	5.4	U	5.4	18	5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.2	5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.2	5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.2	5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.2	5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.2	5
10225	PCB-1254	11097-69-1	26		1.8	9.2	5
10225	PCB-1260	11096-82-5	5.6	J	2.1	9.2	5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.2	5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.2	5

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	3,460		5.39	21.4	1
07914	Boron	7440-42-8	2.28	J	0.954	5.36	1
01650	Calcium	7440-70-2	7,240		6.57	21.4	1
01654	Iron	7439-89-6	5,100		5.05	21.4	1
01656	Lithium	7439-93-2	2.6		0.24	2.1	1
01657	Magnesium	7439-95-4	1,020		2.72	10.7	1
06958	Manganese	7439-96-5	126		0.0836	0.536	1
10145	Phosphorus	7723-14-0	404		0.600	10.7	1
01662	Potassium	7440-09-7	575		19.3	53.6	1
01667	Sodium	7440-23-5	58.4	J	40.0	107	1
07968	Strontium	7440-24-6	17.2		0.0664	0.536	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-255-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-255-SA5A-SS-0.0-0.5

LLI Sample # SW 6217803
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:58

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE093-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	1.67	J	1.07	10.7	1
06970	Titanium	7440-32-6	254		0.407	1.07	1
10146	Zirconium	7440-67-7	1.61	J	0.900	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0643	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.17		0.0857	0.429	2
06126	Barium	7440-39-3	23.4		0.116	0.429	2
06127	Beryllium	7440-41-7	0.174		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.207		0.0424	0.106	2
06131	Chromium	7440-47-3	13.3		0.129	0.429	2
06132	Cobalt	7440-48-4	2.38		0.0214	0.107	2
06133	Copper	7440-50-8	4.88		0.0700	0.424	2
06135	Lead	7439-92-1	2.22		0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.917		0.0531	0.106	2
06139	Nickel	7440-02-0	6.90		0.107	0.429	2
06141	Selenium	7782-49-2	0.178	J	0.0429	0.429	2
06142	Silver	7440-22-4	0.0129	U	0.0129	0.107	2
06145	Thallium	7440-28-0	0.0581	J	0.0321	0.107	2
06148	Vanadium	7440-62-2	15.7		0.0236	0.107	2
06149	Zinc	7440-66-6	18.8		0.600	3.21	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	419		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.26		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-255-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-255-SA5A-SS-0.0-0.5

LLI Sample # SW 6217803
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:58

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Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE093-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 11:26	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/18/2011 01:43	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110690015A	03/12/2011 20:56	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110670001A	03/17/2011 11:58	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 09:58	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110670001A	03/08/2011 13:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110690015A	03/11/2011 03:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 04:24	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 15:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 15:37	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-255-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA5A-SS-0.0-0.5

LLI Sample # SW 6217803
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:58

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE093-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 15:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 15:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110731026001A	03/15/2011 12:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 15:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 15:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 15:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 15:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 15:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 15:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 15:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 15:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 15:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202B	03/15/2011 11:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201B	03/10/2011 14:53	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11064243201A	03/08/2011 16:42	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202B	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201B	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101B	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401B	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB02-SA5A-022811 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5A-022811

LLI Sample # WW 6217804
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:35

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-02 SDG#: DE093-12EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	6	1
04678	Benzidine	92-87-5	22	U	22	67	1
04678	Benzoic acid	65-85-0	7	U	7	17	1
04678	Benzyl alcohol	100-51-6	6	U	6	17	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	6	1
04678	Carbazole	86-74-8	1	U	1	6	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	6	1
04678	4-Chloroaniline	106-47-8	1	U	1	6	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	6	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	6	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	6	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	6	1
04678	2-Chlorophenol	95-57-8	1	U	1	6	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	6	1
04678	Dibenzofuran	132-64-9	1	U	1	6	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	6	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	6	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	6	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	6	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17	1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	34	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	6	1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	6	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	6	1
04678	Hexachlorobenzene	118-74-1	1	U	1	6	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	6	1
04678	Hexachlorocyclopentadiene	77-47-4	6	U	6	17	1
04678	Hexachloroethane	67-72-1	1	U	1	6	1
04678	Isophorone	78-59-1	1	U	1	6	1
04678	2-Methylphenol	95-48-7	1	U	1	6	1
04678	4-Methylphenol	106-44-5	2	U	2	6	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1	U	1	6	1
04678	3-Nitroaniline	99-09-2	1	U	1	6	1
04678	4-Nitroaniline	100-01-6	1	U	1	6	1
04678	Nitrobenzene	98-95-3	1	U	1	6	1
04678	2-Nitrophenol	88-75-5	1	U	1	6	1
04678	4-Nitrophenol	100-02-7	11	U	11	34	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	6	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	6	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3	U	3	17	1
04678	Phenol	108-95-2	1	U	1	6	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB02-SA5A-022811 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5A-022811

LLI Sample # WW 6217804
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:35

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-02 SDG#: DE093-12EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	6	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	6	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	6	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.054	1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.054	1
10137	Anthracene	120-12-7	0.011	U	0.011	0.054	1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.054	1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.054	1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.054	1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.054	1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.054	1
10137	Butylbenzylphthalate	85-68-7	0.054	U	0.054	1.1	1
10137	Di-n-butylphthalate	84-74-2	0.39	J	0.054	1.1	1
10137	Chrysene	218-01-9	0.083		0.011	0.054	1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.054	1
10137	Diethylphthalate	84-66-2	0.077	J	0.054	1.1	1
10137	Dimethylphthalate	131-11-3	0.054	U	0.054	1.1	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.15	J	0.054	1.1	1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.054	1
10137	Fluorene	86-73-7	0.011	U	0.011	0.054	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.054	1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.054	1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.054	1
10137	Naphthalene	91-20-3	0.035	J	0.032	0.054	1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.054	1
10137	Di-n-octylphthalate	117-84-0	0.054	U	0.054	1.1	1
10137	Phenanthrene	85-01-8	0.020	J	0.011	0.054	1
10137	Pyrene	129-00-0	0.011	U	0.011	0.054	1

The following compounds were detected in the method blank at the respective concentrations of:
Diethylphthalate .053 ug/l
di-n-butylphthalate .066 ug/l
bis(2-ethylhexyl)phthalate .13 ug/l
These blank values were not subtracted from the analytical results.

Reporting limits were raised due to limited sample volume.

Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.17	U	0.17	0.53	1
10407	Dalapon	75-99-0	0.27	U	0.27	1.3	1
10407	2,4-DB	94-82-6	0.32	U	0.32	1.1	1
10407	Dicamba	1918-00-9	0.085	U	0.085	0.32	1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.53	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.53	1
10407	MCPA	94-74-6	320	U	320	1,100	1
10407	MCPP	93-65-2	53	U	53	210	1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.053	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB02-SA5A-022811 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5A-022811

LLI Sample # WW 6217804
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:35

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-02 SDG#: DE093-12EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4,5-TP	93-72-1	0.011 U	0.011	0.053	1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0022 U	0.0022	0.011	1
00177	Alpha BHC	319-84-6	0.0034 U	0.0034	0.011	1
00177	Beta BHC	319-85-7	0.0033 U	0.0033	0.011	1
00177	Gamma BHC - Lindane	58-89-9	0.0022 U	0.0022	0.011	1
00177	Chlordane	57-74-9	0.13 U	0.13	0.56	1
00177	p,p-DDD	72-54-8	0.0056 U	0.0056	0.022	1
00177	p,p-DDE	72-55-9	0.0056 U	0.0056	0.022	1
00177	p,p-DDT	50-29-3	0.0056 U	0.0056	0.022	1
00177	Delta BHC	319-86-8	0.0033 U	0.0033	0.011	1
00177	Dieldrin	60-57-1	0.0059 U	0.0059	0.022	1
00177	Endosulfan I	959-98-8	0.0048 U	0.0048	0.011	1
00177	Endosulfan II	33213-65-9	0.017 U	0.017	0.022	1
00177	Endosulfan Sulfate	1031-07-8	0.0065 U	0.0065	0.022	1
00177	Endrin	72-20-8	0.0091 U	0.0091	0.022	1
00177	Endrin Aldehyde	7421-93-4	0.022 U	0.022	0.11	1
00177	Endrin Ketone	53494-70-5	0.0056 U	0.0056	0.022	1
00177	Heptachlor	76-44-8	0.0029 U	0.0029	0.011	1
00177	Heptachlor Epoxide	1024-57-3	0.0026 U	0.0026	0.011	1
00177	Methoxychlor	72-43-5	0.034 U	0.034	0.11	1
00177	Mirex	2385-85-5	0.095 U	0.095	0.28	1
00177	Toxaphene	8001-35-2	1.1 U	1.1	3.4	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.11 U	0.11	0.56	1
10227	Aroclor 5442	12642-23-8	0.11 U	0.11	0.56	1
10227	Aroclor 5460	11126-42-4	0.11 U	0.11	0.56	1
10227	PCB-1016	12674-11-2	0.11 U	0.11	0.56	1
10227	PCB-1221	11104-28-2	0.11 U	0.11	0.56	1
10227	PCB-1232	11141-16-5	0.22 U	0.22	0.56	1
10227	PCB-1242	53469-21-9	0.11 U	0.11	0.56	1
10227	PCB-1248	12672-29-6	0.11 U	0.11	0.56	1
10227	PCB-1254	11097-69-1	0.11 U	0.11	0.56	1
10227	PCB-1260	11096-82-5	0.11 U	0.11	0.56	1
10227	PCB-1262	37324-23-5	0.22 U	0.22	0.56	1
10227	PCB-1268	11100-14-4	0.18 U	0.18	0.56	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB02-SA5A-022811 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5A-022811

LLI Sample # WW 6217804
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:35

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-02 SDG#: DE093-12EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01767	Sodium	7440-23-5	0.433 U	0.433	1.00	1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050	1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200	1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500	1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10	1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0	1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: EB02-SA5A-022811 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA5A-022811

LLI Sample # WW 6217804
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:35

Submitted: 03/01/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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EB-02 SDG#: DE093-12EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11062WAA026	03/10/2011	08:11	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063WAC026	03/16/2011	03:32	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11062WAA026	03/03/2011	14:40	Kelli M Barto	1
10466	BNA Water Extraction SIM	SW-846 3510C	2	11063WAC026	03/04/2011	15:15	Kelli M Barto	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	110640003A	03/08/2011	09:58	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	110620022A	03/04/2011	17:01	Lisa A Reinert	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	110620022A	03/14/2011	17:53	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110620021A	03/10/2011	04:05	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110620021A	03/04/2011	02:45	Roman Kuropatkin	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	110620022A	03/04/2011	02:45	Roman Kuropatkin	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	110640003A	03/06/2011	09:45	Karen L Beyer	1
01743	Aluminum	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	110601848002	03/03/2011	02:53	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	110606050003A	03/09/2011	02:25	David K Beck	1
06025	Arsenic	SW-846 6020	2	110606050003A	03/09/2011	02:25	David K Beck	1
06026	Barium	SW-846 6020	1	110606050003D	03/09/2011	02:25	David K Beck	1
06027	Beryllium	SW-846 6020	1	110606050003A	03/09/2011	02:25	David K Beck	1
06028	Cadmium	SW-846 6020	2	110606050003A	03/09/2011	02:25	David K Beck	1
06031	Chromium	SW-846 6020	2	110606050003A	03/09/2011	02:25	David K Beck	1
06032	Cobalt	SW-846 6020	2	110606050003A	03/09/2011	02:25	David K Beck	1
06033	Copper	SW-846 6020	2	110606050003A	03/09/2011	02:25	David K Beck	1
06035	Lead	SW-846 6020	2	110606050003A	03/09/2011	02:25	David K Beck	1
06038	Molybdenum	SW-846 6020	2	110606050003C	03/09/2011	02:25	David K Beck	1
06039	Nickel	SW-846 6020	2	110606050003A	03/09/2011	02:25	David K Beck	1
06041	Selenium	SW-846 6020	2	110606050003B	03/09/2011	02:25	David K Beck	1
06042	Silver	SW-846 6020	2	110606050003A	03/09/2011	02:25	David K Beck	1
06045	Thallium	SW-846 6020	2	110606050003A	03/09/2011	02:25	David K Beck	1
06048	Vanadium	SW-846 6020	2	110606050003A	03/09/2011	02:25	David K Beck	1
06049	Zinc	SW-846 6020	1	110606050003A	03/09/2011	02:25	David K Beck	1
00259	Mercury	SW-846 7470A	1	110615713003	03/02/2011	19:09	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110601848002	03/02/2011	09:05	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110606050003	03/02/2011	09:03	Denise K Conners	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB02-SA5A-022811 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5A-022811

LLI Sample # WW 6217804
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:35

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-02 SDG#: DE093-12EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	110615713003	03/02/2011 15:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11062196602A	03/04/2011 03:20	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11059199401A	03/01/2011 12:55	Carrie E Miller	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11060199401A	03/01/2011 12:34	Carrie E Miller	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB03-SA5A-022811 Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5A-022811

LLI Sample # WW 6217805
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-03 SDG#: DE093-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	22	U	22	65	1
04678	Benzoic acid	65-85-0	6	U	6	16	1
04678	Benzyl alcohol	100-51-6	5	U	5	16	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5	1
04678	Carbazole	86-74-8	1	U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5	1
04678	4-Chloroaniline	106-47-8	1	U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5	1
04678	2-Chlorophenol	95-57-8	1	U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5	1
04678	Dibenzofuran	132-64-9	1	U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5	1
04678	Hexachlorobenzene	118-74-1	1	U	1	5	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5	1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
04678	Hexachloroethane	67-72-1	1	U	1	5	1
04678	Isophorone	78-59-1	1	U	1	5	1
04678	2-Methylphenol	95-48-7	1	U	1	5	1
04678	4-Methylphenol	106-44-5	2	U	2	5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1	U	1	5	1
04678	3-Nitroaniline	99-09-2	1	U	1	5	1
04678	4-Nitroaniline	100-01-6	1	U	1	5	1
04678	Nitrobenzene	98-95-3	1	U	1	5	1
04678	2-Nitrophenol	88-75-5	1	U	1	5	1
04678	4-Nitrophenol	100-02-7	11	U	11	32	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3	U	3	16	1
04678	Phenol	108-95-2	1	U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB03-SA5A-022811 Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5A-022811

LLI Sample # WW 6217805
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-03 SDG#: DE093-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053	1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053	1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053	1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053	1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053	1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053	1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053	1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053	1
10137	Butylbenzylphthalate	85-68-7	0.053	U	0.053	1.1	1
10137	Di-n-butylphthalate	84-74-2	0.32	J	0.053	1.1	1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053	1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053	1
10137	Diethylphthalate	84-66-2	0.10	J	0.053	1.1	1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.16	J	0.053	1.1	1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053	1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053	1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.053	1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.053	1
10137	Naphthalene	91-20-3	0.035	J	0.032	0.053	1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053	1
10137	Di-n-octylphthalate	117-84-0	0.053	U	0.053	1.1	1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.053	1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053	1

The following compounds were detected in the method blank at the respective concentrations of:
Diethylphthalate .053 ug/l
di-n-butylphthalate .066 ug/l
bis(2-ethylhexyl)phthalate .13 ug/l
These blank values were not subtracted from the analytical results.

Reporting limits were raised due to limited sample volume.

Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.17	U	0.17	0.52	1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3	1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0	1
10407	Dicamba	1918-00-9	0.083	U	0.083	0.31	1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.52	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.52	1
10407	MCPA	94-74-6	310	U	310	1,000	1
10407	MCPP	93-65-2	52	U	52	210	1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.052	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB03-SA5A-022811 Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5A-022811

LLI Sample # WW 6217805
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-03 SDG#: DE093-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.052	1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.010	1
00177	Alpha BHC	319-84-6	0.0031	U	0.0031	0.010	1
00177	Beta BHC	319-85-7	0.0030	U	0.0030	0.010	1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.010	1
00177	Chlordane	57-74-9	0.12	U	0.12	0.52	1
00177	p,p-DDD	72-54-8	0.0052	U	0.0052	0.021	1
00177	p,p-DDE	72-55-9	0.0052	U	0.0052	0.021	1
00177	p,p-DDT	50-29-3	0.0052	U	0.0052	0.021	1
00177	Delta BHC	319-86-8	0.0030	U	0.0030	0.010	1
00177	Dieldrin	60-57-1	0.0055	U	0.0055	0.021	1
00177	Endosulfan I	959-98-8	0.0045	U	0.0045	0.010	1
00177	Endosulfan II	33213-65-9	0.016	U	0.016	0.021	1
00177	Endosulfan Sulfate	1031-07-8	0.0060	U	0.0060	0.021	1
00177	Endrin	72-20-8	0.0084	U	0.0084	0.021	1
00177	Endrin Aldehyde	7421-93-4	0.021	U	0.021	0.10	1
00177	Endrin Ketone	53494-70-5	0.0052	U	0.0052	0.021	1
00177	Heptachlor	76-44-8	0.0027	U	0.0027	0.010	1
00177	Heptachlor Epoxide	1024-57-3	0.0024	U	0.0024	0.010	1
00177	Methoxychlor	72-43-5	0.031	U	0.031	0.10	1
00177	Mirex	2385-85-5	0.088	U	0.088	0.26	1
00177	Toxaphene	8001-35-2	1.0	U	1.0	3.1	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52	1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52	1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52	1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.52	1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.52	1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.52	1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.52	1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.52	1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.52	1
10227	PCB-1260	11096-82-5	0.10	U	0.10	0.52	1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.52	1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.52	1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0665	J	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.00088	J	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB03-SA5A-022811 Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5A-022811

LLI Sample # WW 6217805
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-03 SDG#: DE093-13EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01767	Sodium	7440-23-5	0.433 U	0.433	1.00	1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050	1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200	1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500	1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000066 J	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10	1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0	1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **EB03-SA5A-022811 Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5A-022811

LLI Sample # WW 6217805
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-03 SDG#: DE093-13EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11062WAA026	03/10/2011	08:36	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063WAC026	03/16/2011	04:03	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11062WAA026	03/03/2011	14:40	Kelli M Barto	1
10466	BNA Water Extraction SIM	SW-846 3510C	2	11063WAC026	03/04/2011	15:15	Kelli M Barto	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	110640003A	03/08/2011	10:26	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	110620022A	03/04/2011	17:13	Lisa A Reinert	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	110620022A	03/14/2011	18:05	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110620021A	03/10/2011	04:24	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110620021A	03/04/2011	02:45	Roman Kuropatkin	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	110620022A	03/04/2011	02:45	Roman Kuropatkin	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	110640003A	03/06/2011	09:45	Karen L Beyer	1
01743	Aluminum	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	110601848002	03/03/2011	02:56	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	110606050003A	03/09/2011	02:28	David K Beck	1
06025	Arsenic	SW-846 6020	2	110606050003A	03/09/2011	02:28	David K Beck	1
06026	Barium	SW-846 6020	1	110606050003D	03/09/2011	02:28	David K Beck	1
06027	Beryllium	SW-846 6020	1	110606050003A	03/09/2011	02:28	David K Beck	1
06028	Cadmium	SW-846 6020	1	110606050003A	03/09/2011	02:28	David K Beck	1
06031	Chromium	SW-846 6020	2	110606050003A	03/09/2011	02:28	David K Beck	1
06032	Cobalt	SW-846 6020	2	110606050003A	03/09/2011	02:28	David K Beck	1
06033	Copper	SW-846 6020	2	110606050003A	03/09/2011	02:28	David K Beck	1
06035	Lead	SW-846 6020	2	110606050003A	03/09/2011	02:28	David K Beck	1
06038	Molybdenum	SW-846 6020	2	110606050003C	03/09/2011	02:28	David K Beck	1
06039	Nickel	SW-846 6020	2	110606050003A	03/09/2011	02:28	David K Beck	1
06041	Selenium	SW-846 6020	2	110606050003B	03/09/2011	02:28	David K Beck	1
06042	Silver	SW-846 6020	2	110606050003A	03/09/2011	02:28	David K Beck	1
06045	Thallium	SW-846 6020	2	110606050003A	03/09/2011	02:28	David K Beck	1
06048	Vanadium	SW-846 6020	2	110606050003A	03/09/2011	02:28	David K Beck	1
06049	Zinc	SW-846 6020	1	110606050003A	03/09/2011	02:28	David K Beck	1
00259	Mercury	SW-846 7470A	1	110615713003	03/02/2011	19:10	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110601848002	03/02/2011	09:05	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110606050003	03/02/2011	09:03	Denise K Conners	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB03-SA5A-022811 Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5A-022811

LLI Sample # WW 6217805
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-03 SDG#: DE093-13EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	110615713003	03/02/2011 15:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11062196602A	03/04/2011 03:34	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11059199401A	03/01/2011 14:34	Carrie E Miller	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11060199401A	03/01/2011 12:46	Carrie E Miller	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-237-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-4.0-5.0

LLI Sample # SW 6217806
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:35

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2374 SDG#: DE093-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.5	0.84
06192	Benzene	71-43-2	0.09	U	0.09	3.7	0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7	0.84
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7	0.84
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7	0.84
06192	Bromoform	75-25-2	0.37	U	0.37	3.7	0.84
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7	0.84
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5	0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7	0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7	0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7	0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7	0.84
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7	0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7	0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7	0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.7	0.84
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7	0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7	0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7	0.84
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7	0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7	0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7	0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7	0.84
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7	0.84
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7	0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7	0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7	0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7	0.84
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7	0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7	0.84
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7	0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7	0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7	0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7	0.84
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7	0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7	0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7	0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7	0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7	0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7	0.84
06192	Freon 113	76-13-1	0.10	U	0.10	3.7	0.84
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7	0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7	0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5	0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7	0.84
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7	0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7	0.84
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.5	0.84
06192	Methylene Chloride	75-09-2	0.45	J	0.22	3.7	0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7	0.84

*=This limit was used in the evaluation of the final result

Sample Description: SL-237-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-4.0-5.0

LLI Sample # SW 6217806
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:35

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2374 SDG#: DE093-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7	0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7	0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7	0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7	0.84
06192	Toluene	108-88-3	0.07	U	0.07	3.7	0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7	0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7	0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7	0.84
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7	0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7	0.84
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7	0.84
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7	0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7	0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7	0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7	0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7	0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7	0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13	20.16
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-237-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-4.0-5.0

LLI Sample # SW 6217806
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:35

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2374 SDG#: DE093-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.86	J	0.73	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-237-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-4.0-5.0

LLI Sample # SW 6217806
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:35

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2374 SDG#: DE093-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	11	J	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		5.53	22.0	1
07914	Boron	7440-42-8	7.42		0.978	5.49	1
01650	Calcium	7440-70-2	2,230		6.74	22.0	1
01654	Iron	7439-89-6	17,700		5.18	22.0	1
01656	Lithium	7439-93-2	20.7		0.24	2.2	1
01657	Magnesium	7439-95-4	3,470		2.79	11.0	1
06958	Manganese	7439-96-5	366		0.0857	0.549	1
10145	Phosphorus	7723-14-0	270		0.615	11.0	1
01662	Potassium	7440-09-7	3,550		19.8	54.9	1
01667	Sodium	7440-23-5	129		41.0	110	1
07968	Strontium	7440-24-6	24.6		0.0681	0.549	1
06969	Tin	7440-31-5	2.67	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,120		0.418	1.10	1
10146	Zirconium	7440-67-7	1.42	J	0.923	5.49	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0640	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.12		0.0854	0.427	2
06126	Barium	7440-39-3	143		0.115	0.427	2
06127	Beryllium	7440-41-7	0.843		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.324		0.0435	0.109	2
06131	Chromium	7440-47-3	21.9		0.128	0.427	2
06132	Cobalt	7440-48-4	7.66		0.0213	0.107	2
06133	Copper	7440-50-8	10.5		0.0718	0.435	2
06135	Lead	7439-92-1	6.91		0.0111	0.213	2
06138	Molybdenum	7439-98-7	1.17		0.0544	0.109	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-237-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-4.0-5.0

LLI Sample # SW 6217806
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:35

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2374 SDG#: DE093-14

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	15.4		0.107	0.427	2
06141	Selenium		7782-49-2	0.162	J	0.0427	0.427	2
06142	Silver		7440-22-4	0.0718	J	0.0128	0.107	2
06145	Thallium		7440-28-0	0.404		0.0320	0.107	2
06148	Vanadium		7440-62-2	42.3		0.0235	0.107	2
06149	Zinc		7440-66-6	73.9		0.598	3.20	2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0181	J	0.0030	0.105	1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.2		0.89	1.1	1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10	U	10	33.3	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.44	J	0.22	1.1	1
		ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential		n.a.	429		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.83		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3		n.a.	9.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-237-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-237-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-4.0-5.0

LLI Sample # SW 6217806
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:35

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2374 SDG#: DE093-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110603AA	03/02/2011 09:38	Stephanie A Selis	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110612AA	03/02/2011 20:51	Sara E Johnson	20.16
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106023780	03/01/2011 21:37	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106023780	03/01/2011 21:39	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106023780	03/01/2011 21:39	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106023780	03/01/2011 21:34	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 11:51	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/18/2011 02:14	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 10:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 04:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 15:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 15:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 15:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 15:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110731026001A	03/15/2011 12:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 15:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 15:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 15:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 15:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 15:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 15:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 15:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 15:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 15:40	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-237-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-4.0-5.0

LLI Sample # SW 6217806
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:35

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2374 SDG#: DE093-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202B	03/15/2011 11:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201B	03/10/2011 15:17	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11064243201A	03/08/2011 17:01	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202B	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201B	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101B	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401B	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-237-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-9.0-10.0

LLI Sample # SW 6217807
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2379 SDG#: DE093-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzo(a)pyrene	50-32-8	71	J	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	35	J	18	180	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	32	J	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Chrysene	218-01-9	100	J	18	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	61	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-237-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-9.0-10.0

LLI Sample # SW 6217807
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2379 SDG#: DE093-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenanthrene	85-01-8	40	J	18	180	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	37	J	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.60	J	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.6		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.2		0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.7	J	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	2.2		0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	J	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.75	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	12	J	6.6	20	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-237-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-9.0-10.0

LLI Sample # SW 6217807
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2379 SDG#: DE093-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,900		5.56	22.1	1
07914	Boron	7440-42-8	4.99	J	0.985	5.53	1
01650	Calcium	7440-70-2	3,620		6.78	22.1	1
01654	Iron	7439-89-6	17,200		5.21	22.1	1
01656	Lithium	7439-93-2	19.2		0.24	2.2	1
01657	Magnesium	7439-95-4	3,790		2.81	11.1	1
06958	Manganese	7439-96-5	241		0.0863	0.553	1
10145	Phosphorus	7723-14-0	373		0.619	11.1	1
01662	Potassium	7440-09-7	2,790		19.9	55.3	1
01667	Sodium	7440-23-5	209		41.3	111	1
07968	Strontium	7440-24-6	26.6		0.0686	0.553	1
06969	Tin	7440-31-5	2.56	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,110		0.420	1.11	1
10146	Zirconium	7440-67-7	2.89	J	0.929	5.53	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.108	J	0.0657	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.49		0.0876	0.438	2
06126	Barium	7440-39-3	112		0.118	0.438	2
06127	Beryllium	7440-41-7	0.464		0.0175	0.110	2
06128	Cadmium	7440-43-9	0.142		0.0438	0.110	2
06131	Chromium	7440-47-3	17.4		0.131	0.438	2
06132	Cobalt	7440-48-4	5.14		0.0219	0.110	2
06133	Copper	7440-50-8	8.86		0.0723	0.438	2
06135	Lead	7439-92-1	5.66		0.0114	0.219	2
06138	Molybdenum	7439-98-7	2.82		0.0548	0.110	2
06139	Nickel	7440-02-0	10.5		0.110	0.438	2
06141	Selenium	7782-49-2	0.0897	J	0.0438	0.438	2
06142	Silver	7440-22-4	0.0270	J	0.0131	0.110	2
06145	Thallium	7440-28-0	0.247		0.0329	0.110	2
06148	Vanadium	7440-62-2	34.0		0.0241	0.110	2
06149	Zinc	7440-66-6	60.0		0.613	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0419	J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-237-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-9.0-10.0

LLI Sample # SW 6217807
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2379 SDG#: DE093-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	460	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.03	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLB026	03/14/2011 12:16	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLB026	03/18/2011 02:46	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLB026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLB026	03/05/2011 10:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110660012A	03/11/2011 17:37	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110660012A	03/07/2011 17:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-237-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-9.0-10.0

LLI Sample # SW 6217807
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2379 SDG#: DE093-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110675708002	03/11/2011 04:39	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110671026002A	03/11/2011 15:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110671026002A	03/11/2011 15:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110671026002D	03/11/2011 15:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110671026002A	03/11/2011 15:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110731026001A	03/15/2011 12:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110671026002A	03/11/2011 15:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110671026002A	03/11/2011 15:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110731026001A	03/15/2011 12:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110671026002A	03/11/2011 15:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110731026001C	03/15/2011 12:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110671026002A	03/11/2011 15:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110671026002B	03/11/2011 15:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110671026002A	03/11/2011 15:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110671026002A	03/11/2011 15:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110671026002A	03/11/2011 15:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110671026002A	03/11/2011 15:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110675711003	03/09/2011 11:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110675708002	03/08/2011 20:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110671026002	03/08/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110731026001	03/14/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110675711003	03/08/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11067621202B	03/15/2011 12:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11066495201B	03/10/2011 15:41	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11064243201A	03/08/2011 17:13	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11067621202B	03/09/2011 10:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11066495201B	03/08/2011 02:00	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11061182101B	03/02/2011 12:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11061039401B	03/02/2011 12:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11064243201A	03/05/2011 06:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-022811 Water
SSFL Area IV Collocated Soil Sampling
TB-022811

LLI Sample # WW 6217808
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 16:30

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB228 SDG#: DE093-16TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-022811 Water**
SSFL Area IV Collocated Soil Sampling
TB-022811

LLI Sample # WW 6217808
LLI Group # 1235023
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 16:30

Submitted: 03/01/2011 09:15
Reported: 03/22/2011 13:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB228 SDG#: DE093-16TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110631AA	03/04/2011 14:47	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110602AA	03/01/2011 18:05	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110602AA	03/01/2011 18:05	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110631AA	03/04/2011 14:47	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110603AA	Sample number(s): 6217806									
Acetone	6.7	U	6.7	8.0	ug/kg	106	88	32-209	18	30
Benzene	0.10	U	0.10	4.0	ug/kg	101	97	80-120	4	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	98	97	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	114	79-124	5	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93	89	78-120	4	30
Bromoform	0.40	U	0.40	4.0	ug/kg	83	77	70-120	7	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	84	86	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	101	84	46-153	19	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	103	101	72-120	3	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	107	102	75-120	5	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	100	95	75-120	5	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	94	94	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	95	93	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	85	89	37-154	5	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	91	85	43-146	6	30
Chloroform	0.12	U	0.12	4.0	ug/kg	100	96	80-120	4	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	92	91	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101	97	78-120	4	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97	95	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	54	53	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	97	79	58-120	20	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	87	81	77-120	7	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96	90	80-120	6	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99	90	80-120	9	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	94	91	79-120	3	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	96	94	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	95	94	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	77	74	20-120	4	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	97	80-120	3	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	95	71-129	5	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	105	100	73-123	4	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	97	80-120	4	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	109	98	79-120	10	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98	94	80-120	4	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	98	92	80-120	6	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98	97	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100	97	77-120	3	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91	88	80-120	3	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89	84	77-120	5	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98	95	80-120	3	30
Freon 113	0.11	U	0.11	4.0	ug/kg	100	97	61-126	3	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	95	93	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	97	93	57-120	4	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	103	86	45-155	18	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99	94	76-120	5	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	106	102	75-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	105	93	74-121	12	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	103	85	61-134	19	30
Methylene Chloride	0.47	J	0.24	4.0	ug/kg	103	100	76-124	3	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	111	103	77-120	8	30
Styrene	0.10	U	0.10	4.0	ug/kg	93	91	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	92	87	80-120	6	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	101	87	71-123	14	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99	95	77-120	4	30
Toluene	0.08	U	0.08	4.0	ug/kg	98	94	80-120	4	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95	88	64-120	7	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	95	89	68-120	6	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101	98	71-125	3	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97	89	80-120	8	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	94	80-120	4	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	96	93	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	104	89	71-123	16	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	103	99	79-120	4	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	103	98	78-120	5	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	92	91	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	96	93	80-120	3	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	96	90	80-120	6	30
Batch number: E110602AA	Sample number(s): 6217808									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	111	114	80-123	2	30
Batch number: E110612AA	Sample number(s): 6217806									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	102	107	70-130	5	30
Batch number: Y110631AA	Sample number(s): 6217808									
Acetone	6	U	6.	20	ug/l	96	92	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	96	96	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	98	101	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	98	97	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	96	93	80-120	3	30
Bromoform	1	U	1.	5	ug/l	75	76	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	91	90	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	107	105	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	98	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	99	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	96	95	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	98	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	86	85	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	115	117	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	102	99	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	85	85	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	101	102	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	101	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	64	62	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	86	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	86	87	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	98	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	100	100	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	96	97	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	95	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	77	74	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	100	79-120	2	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	111	109	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	89	87	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	101	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	102	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	95	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	101	99	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	95	96	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	96	96	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	0	30
Freon 113	2	U	2.	10	ug/l	84	82	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	92	90	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	86	89	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	103	101	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	95	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	97	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	101	101	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	93	93	80-120	0	30
n-Propylbenzene	1	U	1.	5	ug/l	102	103	80-120	1	30
Styrene	1	U	1.	5	ug/l	90	89	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	95	92	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	99	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	90	91	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	94	94	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	86	88	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	91	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	86	85	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	98	98	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	97	97	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	91	88	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	104	103	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	101	101	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	99	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	85	83	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	91	92	80-120	0	30
Batch number: 11062WAA026	Sample number(s): 6217804-6217805									
Aniline	1	U	1.	5	ug/l	106*	86	49-101	21	30
Benzidine	20	U	20.	60	ug/l	107	87	34-117	21	30
Benzoic acid	6	U	6.	15	ug/l	35	33	10-69	5	30
Benzyl alcohol	5	U	5.	15	ug/l	74	70	66-97	7	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	99	101	82-117	1	30
Carbazole	1	U	1.	5	ug/l	95	93	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	89	87	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	93	69	42-124	30	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	92	89	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	79	77	77-108	3	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	98	96	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	75	72	54-132	4	30
2-Chlorophenol	1	U	1.	5	ug/l	86	88	77-108	2	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	99	98	82-111	0	30
Dibenzofuran	1	U	1.	5	ug/l	97	95	83-108	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	89	85	55-118	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	89	84	50-119	6	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	88	83	53-119	6	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	74	61	49-111	20	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	96	96	80-109	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	89	87	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	89	90	70-130	1	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	89	91	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	86	87	52-131	1	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	104	99	81-115	5	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	100	97	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	85	85	78-116	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	102	104	81-118	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	100	96	57-124	4	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	83	81	36-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	82	76	52-113	7	30
Isophorone	1	U	1.	5	ug/l	93	91	74-117	2	30
2-Methylphenol	1	U	1.	5	ug/l	74	72	64-101	2	30
4-Methylphenol	2	U	2.	5	ug/l	64	63	61-103	3	30
2-Nitroaniline	1	U	1.	5	ug/l	94	90	83-116	4	30
3-Nitroaniline	1	U	1.	5	ug/l	94	90	74-113	4	30
4-Nitroaniline	1	U	1.	5	ug/l	80	73	59-100	9	30
Nitrobenzene	1	U	1.	5	ug/l	85	84	75-109	2	30
2-Nitrophenol	1	U	1.	5	ug/l	96	97	86-120	1	30
4-Nitrophenol	10	U	10.	30	ug/l	31	28	16-78	11	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	87	84	69-110	4	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	96	96	67-136	0	30
Pentachlorophenol	3	U	3.	15	ug/l	85	89	53-110	4	30
Phenol	1	U	1.	5	ug/l	33	31	21-67	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	95	91	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	96	97	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	99	99	81-113	1	30

Batch number: 11063SLB026 Sample number(s): 6217790-6217793,6217795-6217803,6217806-6217807

Acenaphthene	17 U	17.	170	ug/kg	92		76-111
Acenaphthylene	17 U	17.	170	ug/kg	95		75-122
Aniline	170 U	170.	500	ug/kg	104*		34-94
Anthracene	17 U	17.	170	ug/kg	92		76-112
Benzidine	1,200 U	1,200.	3,300	ug/kg	62		15-121
Benzo(a)anthracene	17 U	17.	170	ug/kg	95		73-112
Benzo(a)pyrene	17 U	17.	170	ug/kg	90		69-122
Benzo(b)fluoranthene	17 U	17.	170	ug/kg	90		61-127
Benzo(g,h,i)perylene	17 U	17.	170	ug/kg	82		65-122
Benzo(k)fluoranthene	17 U	17.	170	ug/kg	97		67-125
Benzoic acid	170 U	170.	500	ug/kg	102		62-113
Benzyl alcohol	170 U	170.	500	ug/kg	89		68-111
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	100		79-117
Butylbenzylphthalate	17 U	17.	170	ug/kg	99		75-115
Di-n-butylphthalate	17 U	17.	170	ug/kg	96		79-112
Carbazole	17 U	17.	170	ug/kg	92		77-113
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	92		74-119
4-Chloroaniline	67 U	67.	170	ug/kg	59		10-110
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	93		70-118
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	84		70-104
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	99		68-131
2-Chloronaphthalene	17 U	17.	170	ug/kg	68		49-128
2-Chlorophenol	17 U	17.	170	ug/kg	97		72-112

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	93		79-110		
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	78		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	75		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	94		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	94		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	86		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	79		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	95		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	J	17.	330	ug/kg	100		75-117		
Fluoranthene	17	U	17.	170	ug/kg	93		78-116		
Fluorene	17	U	17.	170	ug/kg	92		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	85		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	79		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	81		64-119		
Isophorone	17	U	17.	170	ug/kg	95		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	98		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	92		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
Naphthalene	17	U	17.	170	ug/kg	88		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	92		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	90		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	96		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	66		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	77		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	98		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	78		51-117		
Phenanthrene	17	U	17.	170	ug/kg	92		77-113		
Phenol	17	U	17.	170	ug/kg	91		58-112		
Pyrene	17	U	17.	170	ug/kg	100		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11063WAC026	Sample number(s): 6217804-6217805									
Acenaphthene	0.010	U	0.010	0.050	ug/l	110*	107	74-109	3	30

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthylene	0.010	U	0.010	0.050	ug/l	105	102	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	105	103	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	108	105	72-114	3	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	106	104	60-127	2	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	104	103	69-123	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	120	119	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	115	112	59-130	3	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	77	83	40-138	7	30
Di-n-butylphthalate	0.066	J	0.050	1.0	ug/l	107	108	74-131	0	30
Chrysene	0.010	U	0.010	0.050	ug/l	108	116	76-116	7	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	115	113	55-134	2	30
Diethylphthalate	0.053	J	0.050	1.0	ug/l	94	96	57-134	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	54	61	40-119	11	30
Bis(2-Ethylhexyl)phthalate	0.13	J	0.050	1.0	ug/l	114	120	57-154	5	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	109	107	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	110	108	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	116	114	69-124	2	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	106	104	71-117	2	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	96	94	75-115	2	30
Naphthalene	0.030	U	0.030	0.050	ug/l	98	96	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	81	79	36-89	3	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	114	115	57-145	0	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	107	105	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	104	102	69-118	1	30

Batch number: 11067SLB026 Sample number(s): 6217790-6217793,6217795-6217803,6217806-6217807

Acenaphthene	0.67	U	0.67	1.7	ug/kg	91	63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91	60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	90	55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96	74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	94	58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	102	63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	108	44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	98	54-142
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107	65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	102	75-137
Chrysene	0.33	U	0.33	1.7	ug/kg	97	73-114
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	110	53-138
Diethylphthalate	6.0	U	6.0	18	ug/kg	90	68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101	79-121
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	118	67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	96	64-120
Fluorene	0.67	U	0.67	1.7	ug/kg	99	71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	109	56-134
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91	72-120
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	81	62-120
Naphthalene	0.67	U	0.67	1.7	ug/kg	87	67-120
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86	55-118
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	116	55-176
Phenanthrene	0.67	U	0.67	1.7	ug/kg	92	75-120
Pyrene	0.67	U	0.67	1.7	ug/kg	90	56-121

Batch number: 110640003A Sample number(s): 6217804-6217805

2,4-D	0.16	U	0.16	0.50	ug/l	108	73-157
Dalapon	0.25	U	0.25	1.3	ug/l	68	40-100
2,4-DB	0.30	U	0.30	1.0	ug/l	108	65-130
Dicamba	0.080	U	0.080	0.30	ug/l	96	68-135
Dinoseb	0.10	U	0.10	0.50	ug/l	84	32-91

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	128		76-170		
MCPA	300 U		300.	1,000	ug/l	90		65-128		
MCPP	50	U	50.	200	ug/l	104		67-137		
2,4,5-T	0.015	U	0.015	0.050	ug/l	100		63-147		
2,4,5-TP	0.010	U	0.010	0.050	ug/l	104		63-134		
Batch number: 110690015A	Sample number(s): 6217790-6217793,6217795-6217803									
2,4-D	1.2	U	1.2	3.6	ug/kg	95		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	35		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	98		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	83		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	23		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	103		62-170		
MCPA	76	U	76.	250	ug/kg	86		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	82		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	104		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	89		68-114		
Batch number: 110620021A	Sample number(s): 6217804-6217805									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	76	68	35-84	11	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	88	86	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	90	90	56-135	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110620022A	Sample number(s): 6217804-6217805									
Aldrin	0.0020	U	0.0020	0.010	ug/l	121	121	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	120	59-146	9	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	102	113	73-147	11	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	110	120	68-128	9	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	120	125	71-139	4	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	121	126	66-130	4	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	95	100	53-126	5	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	100	100	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	91	99	68-128	8	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	100	105	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	125	125	71-142	0	30
Endrin	0.0081	U	0.0081	0.020	ug/l	85	95	52-132	11	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	115	115	68-139	0	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	115	120	69-146	4	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	100	110	57-126	10	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	112	73-156	0	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	97	100	52-133	3	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 110660012A	Sample number(s): 6217790-6217793,6217795-6217800,6217802-6217803,6217806-6217807									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	71	78	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	106		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110670001A	Sample number(s): 6217790-6217793,6217795-6217803									
Aldrin	0.066	U	0.066	0.17	ug/kg	85		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	127		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	100		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	121		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	133		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	95		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	106		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	100		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	98		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	128*		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	105		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	105		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	99		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	83		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	95		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	100		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	97		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	106		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110670010A	Sample number(s): 6217801									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	79	78	36-106	0	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	95		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110601848002	Sample number(s): 6217804-6217805									
Aluminum	0.0834	U	0.0834	0.200	mg/l	95	95	90-112	0	20
Boron	0.0138	U	0.0138	0.0500	mg/l	96	95	90-110	0	20
Calcium	0.0702	U	0.0702	0.200	mg/l	99	100	90-112	0	20
Iron	0.0522	U	0.0522	0.200	mg/l	99	99	90-112	0	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	102	102	80-120	0	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	100	100	89-110	1	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	102	102	90-110	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phosphorus	0.0089 U	0.0089	0.100	mg/l	100	100	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	99	99	85-115	0	20
Sodium	0.433 U	0.433	1.00	mg/l	100	101	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	104	103	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	101	101	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	105	90-113	0	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	104	104	80-120	0	20
Batch number: 110606050003A	Sample number(s): 6217804-6217805								
Antimony	0.00030 U	0.00030	0.0010	mg/l	98	102	87-110	4	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	104	107	86-111	3	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	106	107	90-112	2	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	99	97	90-114	2	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	110	113	90-118	3	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	105	110	80-120	5	20
Copper	0.00038 U	0.00038	0.0020	mg/l	108	113	90-113	4	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	104	104	90-115	0	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	105	108	90-113	4	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	99	105	90-115	5	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	98	100	89-116	2	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	106	113	80-120	7	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	93	105	80-120	11	20
Batch number: 110606050003B	Sample number(s): 6217804-6217805								
Selenium	0.00025 U	0.00025	0.0020	mg/l	102	103	85-114	1	20
Batch number: 110606050003C	Sample number(s): 6217804-6217805								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	98	101	80-120	3	20
Batch number: 110606050003D	Sample number(s): 6217804-6217805								
Barium	0.00053 U	0.00053	0.0020	mg/l	103	112	88-113	8	20
Batch number: 110615713003	Sample number(s): 6217804-6217805								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	96	99	80-120	3	20
Batch number: 110671026002A	Sample number(s): 6217790-6217803,6217806-6217807								
Antimony	0.0600 U	0.0600	0.200	mg/kg	106		11-208		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	100		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	105		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	111		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	103		82-118		
Lead	0.0104 U	0.0104	0.200	mg/kg	107		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	112		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	106		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	110		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	105		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	101		78-122		
Batch number: 110671026002B	Sample number(s): 6217790-6217803,6217806-6217807								
Selenium	0.0400 U	0.0400	0.400	mg/kg	100		79-122		
Batch number: 110671026002D	Sample number(s): 6217790-6217803,6217806-6217807								
Barium	0.108 U	0.108	0.400	mg/kg	101		79-121		
Batch number: 110675708002	Sample number(s): 6217790-6217803,6217806-6217807								

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aluminum	5.03	U	5.03	20.0	mg/kg	94		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	99		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	97		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	93		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	105		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	96		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	101		81-119		
Phosphorus	1.25	J	0.560	10.0	mg/kg	108		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	106		79-121		
Tin	1.43	J	1.00	10.0	mg/kg	99		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	98		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	105		80-120		
Batch number: 110675711003	Sample number(s): 6217790-6217803,6217806-6217807									
Mercury	0.0028	U	0.0028	0.0966	mg/kg	100		88-123		
Batch number: 110731026001A	Sample number(s): 6217790-6217803,6217806-6217807									
Cadmium	0.0400	U	0.0400	0.100	mg/kg	111		82-118		
Copper	0.118	J	0.0660	0.400	mg/kg	104		80-120		
Batch number: 110731026001C	Sample number(s): 6217790-6217803,6217806-6217807									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	117		78-122		
Batch number: 11059199401A	Sample number(s): 6217804-6217805									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	101	104	85-115	3	20
Batch number: 11060199401A	Sample number(s): 6217804-6217805									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	104	102	90-110	2	20
Batch number: 11062196602A	Sample number(s): 6217804-6217805									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	95	95	90-110	0	20
Batch number: 11064243201A	Sample number(s): 6217790-6217792,6217794-6217803,6217806-6217807									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	94		80-120		
Batch number: 11066495201A	Sample number(s): 6217790-6217792,6217794-6217795									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11066495201B	Sample number(s): 6217796-6217803,6217806-6217807									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11067621202A	Sample number(s): 6217790-6217792,6217794-6217802									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
Batch number: 11067621202B	Sample number(s): 6217803,6217806-6217807									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
Batch number: 11061039401A	Sample number(s): 6217790-6217791,6217794-6217801									
18a pH by 9045C						99		95-105		
Batch number: 11061039401B	Sample number(s): 6217802-6217803,6217806-6217807									
18a pH by 9045C						99		95-105		
Batch number: 11061182101A	Sample number(s): 6217790-6217791,6217794-6217801									
32a OR Potential						100		98-102		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11061182101B	Sample number(s): 6217802-6217803,6217806-6217807								
32a OR Potential					100		98-102		
Batch number: 11067162401A	Sample number(s): 6217790-6217803,6217806-6217807								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11063SLB026	Sample number(s): 6217790-6217793,6217795-6217803,6217806-6217807 UNSPK: 6217791								
Acenaphthene	94	94	75-115	0	30				
Acenaphthylene	98	97	81-110	1	30				
Aniline	110*	113*	35-95	3	30				
Anthracene	95	96	75-115	1	30				
Benzidine	25*	31*	35-141	20	30				
Benzo(a)anthracene	97	99	65-122	2	30				
Benzo(a)pyrene	92	95	57-126	3	30				
Benzo(b)fluoranthene	91	94	59-125	4	30				
Benzo(g,h,i)perylene	88	90	59-127	2	30				
Benzo(k)fluoranthene	97	100	56-132	3	30				
Benzoic acid	104	105	10-173	1	30				
Benzyl alcohol	97	98	67-115	2	30				
4-Bromophenyl-phenylether	99	102	67-129	3	30				
Butylbenzylphthalate	104	106	73-134	1	30				
Di-n-butylphthalate	98	100	67-123	3	30				
Carbazole	91	95	64-120	4	30				
4-Chloro-3-methylphenol	93	95	76-110	3	30				
4-Chloroaniline	74	89	23-95	19	30				
bis(2-Chloroethoxy)methane	94	94	75-104	1	30				
bis(2-Chloroethyl)ether	89	88	60-116	1	30				
bis(2-Chloroisopropyl)ether	102	101	55-142	0	30				
2-Chloronaphthalene	102	102	50-141	0	30				
2-Chlorophenol	99	99	73-121	0	30				
4-Chlorophenyl-phenylether	95	95	80-109	0	30				
Chrysene	95	96	62-128	1	30				
Dibenz(a,h)anthracene	83	87	65-125	5	30				
Dibenzofuran	96	97	71-112	2	30				
1,2-Dichlorobenzene	88	88	66-108	0	30				
1,3-Dichlorobenzene	87	87	63-109	0	30				
1,4-Dichlorobenzene	87	88	70-100	1	30				
3,3'-Dichlorobenzidine	82	88	16-119	7	30				
2,4-Dichlorophenol	100	100	78-117	0	30				
Diethylphthalate	94	96	66-118	2	30				
2,4-Dimethylphenol	95	96	78-110	1	30				
3,5-Dimethylphenol	101	101	70-130	0	30				
Dimethylphthalate	95	96	64-118	1	30				
4,6-Dinitro-2-methylphenol	88	87	24-116	1	30				
2,4-Dinitrophenol	84	79	20-143	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrotoluene	99	100	73-113	1	30				
2,6-Dinitrotoluene	96	97	69-123	1	30				
1,2-Diphenylhydrazine	95	95	71-129	1	30				
bis(2-Ethylhexyl)phthalate	104	107	63-122	3	30				
Fluoranthene	93	95	73-112	3	30				
Fluorene	94	94	77-111	0	30				
Hexachlorobenzene	101	102	77-114	2	30				
Hexachlorobutadiene	96	97	62-120	1	30				
Hexachlorocyclopentadiene	87	83	10-153	4	30				
Hexachloroethane	80	82	57-109	3	30				
Indeno(1,2,3-cd)pyrene	85	88	61-126	3	30				
Isophorone	96	97	73-102	1	30				
1-Methylnaphthalene	100	100	73-112	0	30				
2-Methylnaphthalene	94	95	76-114	2	30				
2-Methylphenol	96	96	75-111	0	30				
4-Methylphenol	93	92	71-111	1	30				
Naphthalene	90	92	72-116	2	30				
2-Nitroaniline	95	97	67-125	2	30				
3-Nitroaniline	93	96	59-122	3	30				
4-Nitroaniline	78	82	52-112	5	30				
Nitrobenzene	91	93	72-106	3	30				
2-Nitrophenol	101	103	74-115	2	30				
4-Nitrophenol	75	76	54-113	2	30				
N-Nitroso-di-n-propylamine	91	91	60-116	1	30				
N-Nitrosodimethylamine	81	89	47-116	10	30				
N-Nitrosodiphenylamine	99	99	86-145	0	30				
Di-n-octylphthalate	101	104	56-126	3	30				
Pentachlorophenol	89	98	28-127	10	30				
Phenanthrene	92	95	65-125	3	30				
Phenol	94	94	58-126	0	30				
Pyrene	104	104	74-126	1	30				
1,2,4-Trichlorobenzene	94	94	72-115	1	30				
2,4,5-Trichlorophenol	101	103	78-109	3	30				
2,4,6-Trichlorophenol	104	106	77-115	1	30				
Batch number: 11067SLB026	Sample number(s): 6217790-6217793,6217795-6217803,6217806-6217807 UNSPK: 6217791								
Acenaphthene	94	90	63-105	4	30				
Acenaphthylene	98	96	67-114	3	30				
Anthracene	93	92	60-122	2	30				
Benzo(a)anthracene	92	90	59-128	2	30				
Benzo(a)pyrene	92	93	45-138	1	30				
Benzo(b)fluoranthene	104	129	43-155	17	30				
Benzo(g,h,i)perylene	49	42	33-141	15	30				
Benzo(k)fluoranthene	105	113	42-144	6	30				
Butylbenzylphthalate	135	142	57-173	4	30				
Di-n-butylphthalate	110	110	65-148	1	30				
Chrysene	87	87	48-134	0	30				
Dibenz(a,h)anthracene	65	57	22-133	13	30				
Diethylphthalate	96	96	70-136	1	30				
Dimethylphthalate	106	104	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	103	118	39-167	10	30				
Fluoranthene	94	94	26-166	0	30				
Fluorene	97	96	66-122	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Indeno(1,2,3-cd)pyrene	60	52	21-143	13	30				
1-Methylnaphthalene	96	93	72-123	3	30				
2-Methylnaphthalene	86	84	64-103	3	30				
Naphthalene	95	92	61-102	4	30				
N-Nitrosodimethylamine	92	91	48-113	1	30				
Di-n-octylphthalate	144	170	40-192	13	30				
Phenanthrene	88	88	12-165	0	30				
Pyrene	90	91	15-153	1	30				
Batch number: 110640003A	Sample number(s): 6217804-6217805 UNSPK: P222800								
2,4-D	100	104	30-207	4	30				
Dalapon	68	77	35-109	14	30				
2,4-DB	88	96	50-135	9	30				
Dicamba	0*	0*	66-128	0	30				
Dinoseb	85	95	10-140	13	30				
2,4-DP (Dichlorprop)	104	104	63-189	4	30				
MCPA	83	80	53-140	3	30				
MCPP	71	50*	54-153	34*	30				
2,4,5-T	88	96	68-137	9	30				
2,4,5-TP	113	121	52-133	7	30				
Batch number: 110690015A	Sample number(s): 6217790-6217793,6217795-6217803 UNSPK: 6217791								
2,4-D	83	85	17-180	2	35				
Dalapon	53	31	10-125	53*	50				
2,4-DB	430*	470*	10-201	9	50				
Dicamba	89	100	10-190	11	50				
Dinoseb	8*	8*	10-46	3	35				
2,4-DP (Dichlorprop)	74	76	33-178	2	50				
MCPA	94	94	10-213	0	50				
MCPP (Mecoprop)	38	108	10-184	96*	50				
2,4,5-T	14	28	10-156	63*	35				
2,4,5-TP	69	73	24-141	7	35				
Batch number: 110660012A	Sample number(s): 6217790-6217793,6217795-6217800,6217802-6217803,6217806-6217807 UNSPK: 6217791								
PCB-1016	81	79	29-146	2	50				
PCB-1260	86	90	39-149	5	50				
Batch number: 110670001A	Sample number(s): 6217790-6217793,6217795-6217803 UNSPK: 6217791								
Aldrin	58	82	16-126	35	50				
Alpha BHC	94	127	10-129	30	50				
Beta BHC	66	91	14-147	32	50				
Gamma BHC - Lindane	85	112	10-140	28	50				
p,p-DDD	84	110	16-163	28	50				
p,p-DDE	91	112	18-161	21	50				
p,p-DDT	102	124	10-176	19	50				
Delta BHC	66	131	23-140	67*	50				
Dieldrin	61	82	19-154	29	50				
Endosulfan I	56	117	16-137	71*	50				
Endosulfan II	68	85	28-154	22	50				
Endosulfan Sulfate	72	94	21-160	26	50				
Endrin	63	86	11-149	31	50				
Endrin Aldehyde	58	77	10-148	29	35				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endrin Ketone	70	92	22-165	28	50				
Heptachlor	74	151*	13-126	68*	50				
Heptachlor Epoxide	64	88	13-157	32	50				
Methoxychlor	70	97	32-147	33	50				
Batch number: 110670010A	Sample number(s): 6217801 UNSPK: P206985								
PCB-1016	75	74	29-146	1	50				
PCB-1260	72	71	39-149	1	50				
Batch number: 110671026002A	Sample number(s): 6217790-6217803,6217806-6217807 UNSPK: 6217791 BKG: 6217791								
Antimony	66*	53*	75-125	17	20	0.221	0.213	4 (1)	20
Arsenic	195*	197*	75-125	0	20	6.10	6.82	11	20
Beryllium	154*	165*	75-125	3	20	0.787	0.826	5	20
Chromium	158*	173*	75-125	3	20	25.3	26.2	4	20
Cobalt	126*	130*	75-125	1	20	6.47	6.53	1	20
Lead	177*	230*	75-125	8	20	11.3	11.7	4	20
Nickel	154*	158*	75-125	1	20	14.7	15.5	5	20
Silver	155*	155*	75-125	1	20	0.0715 J	0.0635 J	12 (1)	20
Thallium	150*	162*	75-125	4	20	0.270	0.253	6 (1)	20
Vanadium	180 (2)	202 (2)	75-125	3	20	46.7	49.5	6	20
Zinc	230 (2)	239 (2)	75-125	0	20	63.3	66.8	5	20
Batch number: 110671026002B	Sample number(s): 6217790-6217803,6217806-6217807 UNSPK: 6217791 BKG: 6217791								
Selenium	115	120	75-125	2	20	0.171 J	0.182 J	7 (1)	20
Batch number: 110671026002D	Sample number(s): 6217790-6217803,6217806-6217807 UNSPK: 6217791 BKG: 6217791								
Barium	204 (2)	262 (2)	75-125	4	20	121	122	1	20
Batch number: 110675708002	Sample number(s): 6217790-6217803,6217806-6217807 UNSPK: 6217791 BKG: 6217791								
Aluminum	1385 (2)	1359 (2)	75-125	0	20	16,200	15,700	3	20
Boron	99	100	84-115	1	20	6.19	5.71	8 (1)	20
Calcium	131 (2)	135 (2)	75-125	0	20	2,340	2,290	2	20
Iron	-142 (2)	-858 (2)	75-125	4	20	20,400	19,900	2	20
Lithium	103	103	82-114	0	20	22.5	22.4	0	20
Magnesium	190 (2)	112 (2)	75-125	3	20	4,270	4,150	3	20
Manganese	129 (2)	72 (2)	75-125	9	20	259	254	2	20
Phosphorus	107	108	75-125	0	20	340	344	1	20
Potassium	128*	113	75-125	4	20	2,820	2,780	2	20
Sodium	99	98	75-125	1	20	64.9 J	60.6 J	7 (1)	20
Strontium	100	100	75-115	0	20	17.2	17.0	1	20
Tin	89	89	80-110	0	20	2.48 J	2.44 J	2 (1)	20
Titanium	226 (2)	202 (2)	75-125	2	20	1,080	1,060	1	20
Zirconium	93	92	75-125	1	20	0.954 J	1.64 J	53* (1)	20
Batch number: 110675711003	Sample number(s): 6217790-6217803,6217806-6217807 UNSPK: 6217791 BKG: 6217791								
Mercury	104	97	65-135	9	20	0.0132 J	0.0079 J	50* (1)	20
Batch number: 110731026001A	Sample number(s): 6217790-6217803,6217806-6217807 UNSPK: 6217791 BKG: 6217791								
Cadmium	144*	155*	75-125	6	20	0.158	0.163	3 (1)	20
Copper	130*	156*	75-125	11	20	8.02	9.63	18	20

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Quality Control Summary

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Reported: 03/22/11 at 01:42 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110731026001C	Sample number(s): 6217790-6217803,6217806-6217807 UNSPK: 6217791 BKG: 6217791								
Molybdenum	178*	199*	75-125	10	20	0.629	0.926	38*	20
Batch number: 11064243201A	Sample number(s): 6217790-6217792,6217794-6217803,6217806-6217807 UNSPK: 6217791 BKG: 6217791								
3a Cr VI by EPA 7199	93		75-125			0.54 J	0.54 J	1 (1)	20
Batch number: 11066495201A	Sample number(s): 6217790-6217792,6217794-6217795 UNSPK: 6217791 BKG: 6217791								
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11066495201B	Sample number(s): 6217796-6217803,6217806-6217807 UNSPK: 6217796 BKG: 6217796								
7a Perchlorate EPA 314.0	117		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11067621202A	Sample number(s): 6217790-6217792,6217794-6217802 UNSPK: 6217791 BKG: 6217791								
11a Anions by 300.0 - Fluoride	41*		80-120			1.5	1.3	14 (1)	20
Batch number: 11067621202B	Sample number(s): 6217803,6217806-6217807 UNSPK: 6217803 BKG: 6217803								
11a Anions by 300.0 - Fluoride	100		80-120			0.95 J	0.80 U	200* (1)	20
Batch number: 11061039401A	Sample number(s): 6217790-6217791,6217794-6217801 BKG: 6217791								
18a pH by 9045C						6.42	6.52	2*	1
Batch number: 11061039401B	Sample number(s): 6217802-6217803,6217806-6217807 BKG: 6217802								
18a pH by 9045C						7.17	7.21	1	1
Batch number: 11061182101A	Sample number(s): 6217790-6217791,6217794-6217801 BKG: 6217791								
32a OR Potential						390	406	4	6
Batch number: 11061182101B	Sample number(s): 6217802-6217803,6217806-6217807 BKG: 6217802								
32a OR Potential						392	417	6	6
Batch number: 11067162401A	Sample number(s): 6217790-6217803,6217806-6217807 BKG: 6217791								
28a Moisture Content by 160.3						14.7	14.7	1	20
Moisture Content by 160.3						14.7	14.7	1	20
Moisture Content by 160.3						14.7	14.7	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110603AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6217806	101	105	98	98
Blank	98	102	98	98
LCS	101	104	101	100
LCSD	100	101	100	101

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Surrogate Quality Control

Limits: 80-120 80-120 81-117 74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110602AA

	Toluene-d8
6217808	98
Blank	98
LCS	98
LCSD	98
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110612AA

	Toluene-d8
6217806	96
Blank	97
LCS	97
LCSD	96
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110631AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6217808	104	99	103	100
Blank	102	97	104	100
LCS	104	100	105	100
LCSD	104	101	104	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11062WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6217804	44	25	93	77	87	92
6217805	41	24	87	73	85	78
Blank	36	20	85	67	75	76
LCS	50	30	96	82	90	86
LCSD	47	28	98	79	88	80
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11063SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6217790	92	96	92	88	90	94
6217791	90	91	94	84	90	93
6217792	91	94	94	88	92	91
6217793	91	94	97	89	92	92
6217795	87	90	86	85	90	90
6217796	90	93	90	87	92	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Surrogate Quality Control

6217797	70	74	66	72	77	67
6217798	82	86	84	85	91	85
6217799	84	89	85	87	94	87
6217800	87	92	85	87	95	90
6217801	85	91	85	89	94	89
6217802	72	76	72	75	80	75
6217803	84	87	82	84	91	87
6217806	83	86	80	83	90	87
6217807	66	71	63	69	73	64
Blank	88	91	98	89	90	88
LCS	87	89	91	84	89	87
MS	91	94	94	88	92	91
MSD	91	94	97	89	92	92
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11063WAC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6217804	118	99	98
6217805	112	93	94
Blank	113	103	108
LCS	116	102	98
LCSD	112	98	97
Limits:	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11067SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6217790	99	95	112
6217791	108	96	132
6217792	109	97	120
6217793	104	90	107
6217795	101	92	106
6217796	100	91	106
6217797	99	91	103
6217798	93	82	90
6217799	97	87	92
6217800	105	92	94
6217801	100	89	84
6217802	113	93	90
6217803	93	86	87
6217806	97	89	91
6217807	108	84	90
Blank	95	88	98
LCS	100	89	94
MS	109	97	120
MSD	104	90	107
Limits:	40-130	45-130	45-135

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110620021A

	Tetrachloro-m-xylene	Decachlorobiphenyl

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Surrogate Quality Control

6217804	95	99
6217805	90	95
Blank	91	85
LCS	96	90
LCSD	95	84
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 110620022A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6217804	113	112
6217805	108	116
Blank	111	112
LCS	113	111
LCSD	116	118
Limits:	52-141	40-144

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 110640003A

	2,4-Dichlorophenylacetic acid
6217804	88
6217805	87
Blank	89
LCS	105
MS	81
MSD	51
Limits:	35-144

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110660012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6217790	88	94
6217791	80	81
6217792	85	89
6217793	78	90
6217795	94	97
6217796	101	108
6217797	93	101
6217798	103	99
6217799	89	91
6217800	122	141*
6217802	95	105
6217803	121	124*
6217806	84	107
6217807	100	107
Blank	87	107
LCS	92	104
LCSD	81	103
MS	85	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Surrogate Quality Control

MSD	78	90
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 110670001A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6217790	66	91
6217791	59	82
6217792	56	74
6217793	81	94
6217795	62	171*
6217796	61	88
6217797	44*	241*
6217798	61	196*
6217799	57	82
6217800	59	156*
6217801	65	129*
6217802	67	84
6217803	62	80
Blank	89	99
LCS	82	99
MS	56	74
MSD	81	93
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110670010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6217801	76	103
Blank	81	93
LCS	86	91
LCSD	86	99
MS	78	61
MSD	76	64
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110690015A

	2,4-Dichlorophenylacetic acid
6217790	80
6217791	76
6217792	91
6217793	96
6217795	93
6217796	110
6217797	98
6217798	91
6217799	95
6217800	89
6217801	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235023
Reported: 03/22/11 at 01:42 PM

Surrogate Quality Control

6217802	67
6217803	91
Blank	89
LCS	92
MS	91
MSD	96
Limits:	36-156

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1235023 6217790-808

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
DUP-05-SA5A-QC-022811	2.28.11	1205	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
DUP-05-SA5A-QC-022811	2.28.11	1205	SOIL	NONE	1-6 inch sleeve			X	X							
SL-087-SA5A-SS-0.0-0.5MS	2.28.11	1200	SOIL	NONE	2-16 oz jars	X	X			X	X	X		X	X	MS/MSD sample
SL-087-SA5A-SS-0.0-0.5MS	2.28.11	1200	SOIL	NONE	2-6 inch sleeves			X	X							MS/MSD sample
SL-105-SA5A-SS-0.0-0.5	2.28.11	1422	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-105-SA5A-SS-0.0-0.5	2.28.11	1422	SOIL	NONE	1-6 inch sleeve			X	X							
SL-106-SA5A-SS-0.0-0.5	2.28.11	1405	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-106-SA5A-SS-0.0-0.5	2.28.11	1405	SOIL	NONE	1-6 inch sleeve			X	X							
SL-107-SA5A-SS-0.0-0.5	2.28.11	1440	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-107-SA5A-SS-0.0-0.5	2.28.11	1440	SOIL	NONE	1-6 inch sleeve			X	X							
SL-108-SA5A-SS-0.0-0.5	2.28.11	1456	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-108-SA5A-SS-0.0-0.5	2.28.11	1456	SOIL	NONE	1-6 inch sleeve			X	X							
SL-109-SA5A-SS-0.0-0.5	2.28.11	1512	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-109-SA5A-SS-0.0-0.5	2.28.11	1512	SOIL	NONE	1-6 inch sleeve			X	X							
SL-111-SA5A-SS-0.0-0.5	2.28.11	1025	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-111-SA5A-SS-0.0-0.5	2.28.11	1025	SOIL	NONE	1-6 inch sleeve			X	X							
SL-145-SA5A-SS-0.0-0.5	2.28.11	0942	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-145-SA5A-SS-0.0-0.5	2.28.11	0942	SOIL	NONE	1-6 inch sleeve			X	X							
SL-253-SA5A-SS-0.0-0.5	2.28.11	1110	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-253-SA5A-SS-0.0-0.5	2.28.11	1110	SOIL	NONE	1-6 inch sleeve			X	X							
SL-255-SA5A-SS-0.0-0.5	2.28.11	1558	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-255-SA5A-SS-0.0-0.5	2.28.11	1558	SOIL	NONE	1-6 inch sleeve			X	X							
EB02-SA5A-022811	2.28.11	1235	WATER	NONE	6-1 L ambers			X	X	X				X	X	Surface rinsate blank
EB02-SA5A-022811	2.28.11	1235	WATER	HNO3	1-500 mL poly	X										Surface rinsate blank
EB02-SA5A-022811	2.28.11	1235	WATER	NONE	1-500 mL poly		X				X	X				Surface rinsate blank

Relinquished by: (Signature) — Date/Time: 02/28/2011 / 17:00

Received for Laboratory by: (Signature) LLI 3/1/11 915

Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time

Airbill No.(s)
8695 1432 6610; 8695 1432 6621
8695 1432 6632

EB03

13013 1235023 6217790-808

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								SS ONLY		
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
EB03-SA5A-022811	2.28.11	1540	WATER	NONE	6-1 L ambers			X	X	X				X	X	Surface rinsate blank
EB03-SA5A-022811	2.28.11	1540	WATER	HNO3	1-500 mL poly		X									Surface rinsate blank
EB03-SA5A-022811	2.28.11	1540	WATER	NONE	1-500 mL poly			X			X	X				Surface rinsate blank
Relinquished by: (*Signature*)	Date/Time 02/28/2011 / 17:00		Received for Laboratory by: (*Signature*) LLJ 3/1/11 @GLV 3/1/11 & 915														Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No(s) 8695 1432 6610; 8695 1432 6621 8695 1432 6632														

13013 1235023 6217790-808

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
SL-237-SA5A-SB-4.0-5.0	2.28.11	1535	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-237-SA5A-SB-4.5	2.28.11	1530	SOIL	NONE	4-Encores									X	X		
SL-237-SA5A-SB-9.0-10.0	2.28.11	1540	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
TB-022811	2.28.11	1630	WATER	HCl	3-40 mL VOA VIALS									X	X		TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 02/28/2011 / 17:00		Received for Laboratory by: (*Signature*) LLI 3/1/11 915														Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8695 1432 6610; 8695 1432 6621 8695 1432 6632														

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 28, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/01/2011
Group Number: 1235030
SDG: DX058
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-05-SA5A-QC-022811 Soil	6217821
SL-087-SA5A-SS-0.0-0.5 Soil	6217822
SL-087-SA5A-SS-0.0-0.5MS Soil	6217823
SL-087-SA5A-SS-0.0-0.5MSD Soil	6217824
SL-105-SA5A-SS-0.0-0.5 Soil	6217825
SL-106-SA5A-SS-0.0-0.5 Soil	6217826
SL-107-SA5A-SS-0.0-0.5 Soil	6217827
SL-108-SA5A-SS-0.0-0.5 Soil	6217828
SL-109-SA5A-SS-0.0-0.5 Soil	6217829
SL-111-SA5A-SS-0.0-0.5 Soil	6217830
SL-145-SA5A-SS-0.0-0.5 Soil	6217831
SL-253-SA5A-SS-0.0-0.5 Soil	6217832
SL-255-SA5A-SS-0.0-0.5 Soil	6217833
EB02-SA5A-022811 Water	6217834
EB03-SA5A-022811 Water	6217835
SL-237-SA5A-SB-4.0-5.0 Soil	6217836
SL-237-SA5A-SB-9.0-10.0 Soil	6217837

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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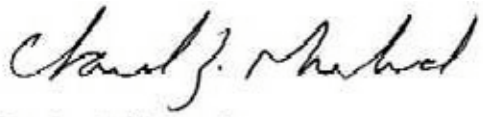
Analysis Report

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-05-SA5A-QC-022811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-05-SA5A-QC-022811

LLI Sample # SW 6217821
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:05

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP05 SDG#: DX058-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-05-SA5A-QC-022811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-05-SA5A-QC-022811

LLI Sample # SW 6217821
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:05

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP05 SDG#: DX058-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0226	U	0.0226	1.19	1
11031	12378-PeCDD	40321-76-4	0.169	J	0.0250	5.95	1
11031	123478-HxCDD	39227-28-6	0.232	J	0.0562	5.95	1
11031	123678-HxCDD	57653-85-7	0.762	JB	0.0608	5.95	1
11031	123789-HxCDD	19408-74-3	0.697	J	0.0610	5.95	1
11031	1234678-HpCDD	35822-46-9	15.8	B	0.0589	5.95	1
11031	OCDD	3268-87-9	291	B	0.0836	11.9	1
11031	2378-TCDF	51207-31-9	0.378	J	0.0488	1.19	1
11031	12378-PeCDF	57117-41-6	0.331	JB	0.0351	5.95	1
11031	23478-PeCDF	57117-31-4	0.480	JB	0.0378	5.95	1
11031	123478-HxCDF	70648-26-9	0.447	JB	0.0454	5.95	1
11031	123678-HxCDF	57117-44-9	0.184	JB	0.0376	5.95	1
11031	123789-HxCDF	72918-21-9	0.187	JB	0.0509	5.95	1
11031	234678-HxCDF	60851-34-5	0.249	JB	0.0384	5.95	1
11031	1234678-HpCDF	67562-39-4	2.02	JB	0.0346	5.95	1
11031	1234789-HpCDF	55673-89-7	0.195	JB	0.0545	5.95	1
11031	OCDF	39001-02-0	5.44	JB	0.0774	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	36	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-05-SA5A-QC-022811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-05-SA5A-QC-022811

LLI Sample # SW 6217821
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:05

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP05 SDG#: DX058-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP-05-SA5A-QC-022811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-05-SA5A-QC-022811

LLI Sample # SW 6217821
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:05

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP05 SDG#: DX058-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/10/2011 00:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217822
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX058-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217822
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX058-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0510	JQ	0.0220	1.17	1
11031	12378-PeCDD	40321-76-4	0.184	J	0.0292	5.86	1
11031	123478-HxCDD	39227-28-6	0.164	JQ	0.0489	5.86	1
11031	123678-HxCDD	57653-85-7	0.591	JB	0.0510	5.86	1
11031	123789-HxCDD	19408-74-3	0.596	J	0.0497	5.86	1
11031	1234678-HpCDD	35822-46-9	11.6	B	0.0487	5.86	1
11031	OCDD	3268-87-9	162	B	0.0811	11.7	1
11031	2378-TCDF	51207-31-9	0.331	J	0.0513	1.17	1
11031	12378-PeCDF	57117-41-6	0.383	JB	0.0314	5.86	1
11031	23478-PeCDF	57117-31-4	0.422	JBQ	0.0325	5.86	1
11031	123478-HxCDF	70648-26-9	0.420	JB	0.0428	5.86	1
11031	123678-HxCDF	57117-44-9	0.192	JBQ	0.0362	5.86	1
11031	123789-HxCDF	72918-21-9	0.209	JBQ	0.0488	5.86	1
11031	234678-HxCDF	60851-34-5	0.191	JB	0.0383	5.86	1
11031	1234678-HpCDF	67562-39-4	1.95	JB	0.0273	5.86	1
11031	1234789-HpCDF	55673-89-7	0.184	JB	0.0467	5.86	1
11031	OCDF	39001-02-0	5.94	JB	0.0721	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	32	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217822
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX058-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-087-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217822
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX058-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/10/2011 01:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217823
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX058-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217823
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX058-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.0		0.0368	1.17	1
11031	12378-PeCDD	40321-76-4	118		0.0503	5.86	1
11031	123478-HxCDD	39227-28-6	118		0.0545	5.86	1
11031	123678-HxCDD	57653-85-7	120	B	0.0581	5.86	1
11031	123789-HxCDD	19408-74-3	119		0.0569	5.86	1
11031	1234678-HpCDD	35822-46-9	131	B	0.0576	5.86	1
11031	OCDD	3268-87-9	467	B	0.0695	11.7	1
11031	2378-TCDF	51207-31-9	24.9		0.0667	1.17	1
11031	12378-PeCDF	57117-41-6	119	B	0.0447	5.86	1
11031	23478-PeCDF	57117-31-4	119	B	0.0474	5.86	1
11031	123478-HxCDF	70648-26-9	119	B	0.0953	5.86	1
11031	123678-HxCDF	57117-44-9	118	B	0.0824	5.86	1
11031	123789-HxCDF	72918-21-9	118	B	0.110	5.86	1
11031	234678-HxCDF	60851-34-5	120	B	0.0869	5.86	1
11031	1234678-HpCDF	67562-39-4	120	B	0.0477	5.86	1
11031	1234789-HpCDF	55673-89-7	118	B	0.0717	5.86	1
11031	OCDF	39001-02-0	225	B	0.0733	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217823
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX058-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217823
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX058-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/10/2011 02:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217824
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX058-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217824
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX058-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.8		0.0441	1.17	1
11031	12378-PeCDD	40321-76-4	122		0.0552	5.86	1
11031	123478-HxCDD	39227-28-6	118		0.0893	5.86	1
11031	123678-HxCDD	57653-85-7	121	B	0.0952	5.86	1
11031	123789-HxCDD	19408-74-3	119		0.0917	5.86	1
11031	1234678-HpCDD	35822-46-9	131	B	0.0688	5.86	1
11031	OCDD	3268-87-9	428	B	0.0812	11.7	1
11031	2378-TCDF	51207-31-9	24.7		0.0742	1.17	1
11031	12378-PeCDF	57117-41-6	120	B	0.0532	5.86	1
11031	23478-PeCDF	57117-31-4	120	B	0.0526	5.86	1
11031	123478-HxCDF	70648-26-9	120	B	0.0767	5.86	1
11031	123678-HxCDF	57117-44-9	122	B	0.0716	5.86	1
11031	123789-HxCDF	72918-21-9	121	B	0.0846	5.86	1
11031	234678-HxCDF	60851-34-5	125	B	0.0713	5.86	1
11031	1234678-HpCDF	67562-39-4	122	B	0.0659	5.86	1
11031	1234789-HpCDF	55673-89-7	121	B	0.0897	5.86	1
11031	OCDF	39001-02-0	226	B	0.0721	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-087-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217824
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX058-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SS-0.0-0.5

LLI Sample # SW 6217824
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:00

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX058-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/10/2011 03:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-105-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5A-SS-0.0-0.5

LLI Sample # SW 6217825
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:22

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD105 SDG#: DX058-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-105-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5A-SS-0.0-0.5

LLI Sample # SW 6217825
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:22

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD105 SDG#: DX058-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.203	J	0.0293	1.18	1
11031	12378-PeCDD	40321-76-4	1.82	J	0.0710	5.89	1
11031	123478-HxCDD	39227-28-6	3.14	J	0.0762	5.89	1
11031	123678-HxCDD	57653-85-7	6.82	B	0.0775	5.89	1
11031	123789-HxCDD	19408-74-3	6.31		0.0776	5.89	1
11031	1234678-HpCDD	35822-46-9	169	B	0.118	5.89	1
11031	OCDD	3268-87-9	3,360	B	0.125	11.8	1
11031	2378-TCDF	51207-31-9	0.433	J	0.0938	1.18	1
11031	12378-PeCDF	57117-41-6	0.536	JB	0.0516	5.89	1
11031	23478-PeCDF	57117-31-4	0.897	JB	0.0545	5.89	1
11031	123478-HxCDF	70648-26-9	1.43	JB	0.0637	5.89	1
11031	123678-HxCDF	57117-44-9	0.634	JB	0.0603	5.89	1
11031	123789-HxCDF	72918-21-9	0.504	JB	0.0675	5.89	1
11031	234678-HxCDF	60851-34-5	0.888	JB	0.0595	5.89	1
11031	1234678-HpCDF	67562-39-4	12.7	B	0.0458	5.89	1
11031	1234789-HpCDF	55673-89-7	0.864	JB	0.0552	5.89	1
11031	OCDF	39001-02-0	40.8	B	0.0531	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-105-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5A-SS-0.0-0.5

LLI Sample # SW 6217825
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:22

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD105 SDG#: DX058-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-105-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5A-SS-0.0-0.5

LLI Sample # SW 6217825
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:22

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD105 SDG#: DX058-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/10/2011 04:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-106-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5A-SS-0.0-0.5

LLI Sample # SW 6217826
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:05

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD106 SDG#: DX058-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5A-SS-0.0-0.5

LLI Sample # SW 6217826
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:05

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD106 SDG#: DX058-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0553	J	0.0298	1.15	1
11031	12378-PeCDD	40321-76-4	0.148	JQ	0.0305	5.73	1
11031	123478-HxCDD	39227-28-6	0.120	J	0.0405	5.73	1
11031	123678-HxCDD	57653-85-7	0.288	JB	0.0435	5.73	1
11031	123789-HxCDD	19408-74-3	0.340	J	0.0415	5.73	1
11031	1234678-HpCDD	35822-46-9	4.44	JB	0.0486	5.73	1
11031	OCDD	3268-87-9	91.6	B	0.0396	11.5	1
11031	2378-TCDF	51207-31-9	0.0642	JQ	0.0348	1.15	1
11031	12378-PeCDF	57117-41-6	0.153	JB	0.0225	5.73	1
11031	23478-PeCDF	57117-31-4	0.145	JBQ	0.0229	5.73	1
11031	123478-HxCDF	70648-26-9	0.152	JBQ	0.0257	5.73	1
11031	123678-HxCDF	57117-44-9	0.0961	JBQ	0.0216	5.73	1
11031	123789-HxCDF	72918-21-9	0.272	JBQ	0.0275	5.73	1
11031	234678-HxCDF	60851-34-5	0.0713	JBQ	0.0239	5.73	1
11031	1234678-HpCDF	67562-39-4	0.457	JB	0.0162	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0975	JB	0.0261	5.73	1
11031	OCDF	39001-02-0	1.37	JB	0.0527	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-106-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5A-SS-0.0-0.5

LLI Sample # SW 6217826
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:05

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD106 SDG#: DX058-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-106-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5A-SS-0.0-0.5

LLI Sample # SW 6217826
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:05

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD106 SDG#: DX058-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/10/2011 13:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-107-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5A-SS-0.0-0.5

LLI Sample # SW 6217827
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:40

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD107 SDG#: DX058-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5A-SS-0.0-0.5

LLI Sample # SW 6217827
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:40

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD107 SDG#: DX058-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.517 J	0.0413	1.19	1
11031	12378-PeCDD	40321-76-4	4.04 J	0.0893	5.97	1
11031	123478-HxCDD	39227-28-6	6.76	0.0647	5.97	1
11031	123678-HxCDD	57653-85-7	17.2 B	0.0672	5.97	1
11031	123789-HxCDD	19408-74-3	15.0	0.0652	5.97	1
11031	1234678-HpCDD	35822-46-9	473 B	0.180	5.97	1
11031	OCDD	3268-87-9	11,000 EB	0.229	11.9	1
11031	2378-TCDF	51207-31-9	1.04 J	0.139	1.19	1
11031	12378-PeCDF	57117-41-6	1.03 JB	0.0759	5.97	1
11031	23478-PeCDF	57117-31-4	3.95 JB	0.0742	5.97	1
11031	123478-HxCDF	70648-26-9	3.06 JB	0.0662	5.97	1
11031	123678-HxCDF	57117-44-9	1.71 JB	0.0623	5.97	1
11031	123789-HxCDF	72918-21-9	0.854 JB	0.0675	5.97	1
11031	234678-HxCDF	60851-34-5	2.59 JB	0.0621	5.97	1
11031	1234678-HpCDF	67562-39-4	27.8 B	0.0521	5.97	1
11031	1234789-HpCDF	55673-89-7	1.75 JB	0.0623	5.97	1
11031	OCDF	39001-02-0	108 B	0.0588	11.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	76	28 - 143

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5A-SS-0.0-0.5

LLI Sample # SW 6217827
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:40

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD107 SDG#: DX058-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-107-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5A-SS-0.0-0.5

LLI Sample # SW 6217827
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:40

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD107 SDG#: DX058-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/10/2011 14:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-108-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5A-SS-0.0-0.5

LLI Sample # SW 6217828
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:56

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD108 SDG#: DX058-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-108-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5A-SS-0.0-0.5

LLI Sample # SW 6217828
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:56

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD108 SDG#: DX058-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0976	JQ	0.0286	1.21	1
11031	12378-PeCDD	40321-76-4	0.272	J	0.0439	6.05	1
11031	123478-HxCDD	39227-28-6	0.509	J	0.0729	6.05	1
11031	123678-HxCDD	57653-85-7	1.70	JB	0.0734	6.05	1
11031	123789-HxCDD	19408-74-3	0.985	J	0.0748	6.05	1
11031	1234678-HpCDD	35822-46-9	90.9	B	0.0915	6.05	1
11031	OCDD	3268-87-9	1,040	B	0.0877	12.1	1
11031	2378-TCDF	51207-31-9	0.689	J	0.0975	1.21	1
11031	12378-PeCDF	57117-41-6	0.413	JB	0.0575	6.05	1
11031	23478-PeCDF	57117-31-4	1.45	JB	0.0530	6.05	1
11031	123478-HxCDF	70648-26-9	1.66	JB	0.0593	6.05	1
11031	123678-HxCDF	57117-44-9	0.534	JB	0.0588	6.05	1
11031	123789-HxCDF	72918-21-9	0.228	JB	0.0666	6.05	1
11031	234678-HxCDF	60851-34-5	0.638	JB	0.0568	6.05	1
11031	1234678-HpCDF	67562-39-4	7.24	B	0.0338	6.05	1
11031	1234789-HpCDF	55673-89-7	0.567	JB	0.0448	6.05	1
11031	OCDF	39001-02-0	33.9	B	0.0554	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-108-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5A-SS-0.0-0.5

LLI Sample # SW 6217828
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:56

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD108 SDG#: DX058-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-108-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5A-SS-0.0-0.5

LLI Sample # SW 6217828
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 14:56

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD108 SDG#: DX058-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/10/2011 15:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-109-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5A-SS-0.0-0.5

LLI Sample # SW 6217829
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:12

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD109 SDG#: DX058-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5A-SS-0.0-0.5

LLI Sample # SW 6217829
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:12

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD109 SDG#: DX058-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.169	JQ	0.0317	1.17	1
11031	12378-PeCDD	40321-76-4	0.321	JQ	0.0426	5.87	1
11031	123478-HxCDD	39227-28-6	0.471	J	0.0617	5.87	1
11031	123678-HxCDD	57653-85-7	1.25	JB	0.0624	5.87	1
11031	123789-HxCDD	19408-74-3	0.802	J	0.0603	5.87	1
11031	1234678-HpCDD	35822-46-9	35.1	B	0.0816	5.87	1
11031	OCDD	3268-87-9	485	B	0.0613	11.7	1
11031	2378-TCDF	51207-31-9	0.240	JQ	0.0689	1.17	1
11031	12378-PeCDF	57117-41-6	0.299	JB	0.0466	5.87	1
11031	23478-PeCDF	57117-31-4	0.999	JB	0.0460	5.87	1
11031	123478-HxCDF	70648-26-9	1.11	JB	0.0599	5.87	1
11031	123678-HxCDF	57117-44-9	0.418	JB	0.0511	5.87	1
11031	123789-HxCDF	72918-21-9	0.220	JB	0.0543	5.87	1
11031	234678-HxCDF	60851-34-5	0.653	JB	0.0498	5.87	1
11031	1234678-HpCDF	67562-39-4	5.15	JB	0.0366	5.87	1
11031	1234789-HpCDF	55673-89-7	0.538	JB	0.0424	5.87	1
11031	OCDF	39001-02-0	14.1	B	0.0435	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-109-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5A-SS-0.0-0.5

LLI Sample # SW 6217829
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:12

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD109 SDG#: DX058-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-109-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5A-SS-0.0-0.5

LLI Sample # SW 6217829
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:12

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD109 SDG#: DX058-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/10/2011 16:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-111-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5A-SS-0.0-0.5

LLI Sample # SW 6217830
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 10:25

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD111 SDG#: DX058-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	21.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-111-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5A-SS-0.0-0.5

LLI Sample # SW 6217830
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 10:25

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD111 SDG#: DX058-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.222	J	0.0302	1.27	1
11031	12378-PeCDD	40321-76-4	0.435	J	0.0418	6.35	1
11031	123478-HxCDD	39227-28-6	0.645	JQ	0.0802	6.35	1
11031	123678-HxCDD	57653-85-7	1.86	JB	0.0811	6.35	1
11031	123789-HxCDD	19408-74-3	1.39	J	0.0770	6.35	1
11031	1234678-HpCDD	35822-46-9	53.0	B	0.0926	6.35	1
11031	OCDD	3268-87-9	708	B	0.0727	12.7	1
11031	2378-TCDF	51207-31-9	0.233	J	0.0674	1.27	1
11031	12378-PeCDF	57117-41-6	0.331	JB	0.0379	6.35	1
11031	23478-PeCDF	57117-31-4	0.714	JB	0.0398	6.35	1
11031	123478-HxCDF	70648-26-9	1.07	JB	0.0652	6.35	1
11031	123678-HxCDF	57117-44-9	0.532	JB	0.0570	6.35	1
11031	123789-HxCDF	72918-21-9	0.417	JB	0.0599	6.35	1
11031	234678-HxCDF	60851-34-5	0.725	JB	0.0523	6.35	1
11031	1234678-HpCDF	67562-39-4	9.46	B	0.0407	6.35	1
11031	1234789-HpCDF	55673-89-7	0.739	JB	0.0467	6.35	1
11031	OCDF	39001-02-0	24.1	B	0.0451	12.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-111-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5A-SS-0.0-0.5

LLI Sample # SW 6217830
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 10:25

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD111 SDG#: DX058-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-111-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5A-SS-0.0-0.5

LLI Sample # SW 6217830
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 10:25

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD111 SDG#: DX058-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/10/2011 17:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-145-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5A-SS-0.0-0.5

LLI Sample # SW 6217831
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 09:42

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD145 SDG#: DX058-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-145-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5A-SS-0.0-0.5

LLI Sample # SW 6217831
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 09:42

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD145 SDG#: DX058-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0278	U	0.0278	1.16	1
11031	12378-PeCDD	40321-76-4	0.165	J	0.0289	5.79	1
11031	123478-HxCDD	39227-28-6	0.200	J	0.0541	5.79	1
11031	123678-HxCDD	57653-85-7	0.747	JB	0.0549	5.79	1
11031	123789-HxCDD	19408-74-3	0.463	J	0.0560	5.79	1
11031	1234678-HpCDD	35822-46-9	19.5	B	0.0650	5.79	1
11031	OCDD	3268-87-9	366	B	0.0613	11.6	1
11031	2378-TCDF	51207-31-9	0.0836	J	0.0484	1.16	1
11031	12378-PeCDF	57117-41-6	0.193	JB	0.0382	5.79	1
11031	23478-PeCDF	57117-31-4	0.482	JB	0.0388	5.79	1
11031	123478-HxCDF	70648-26-9	1.59	JB	0.0649	5.79	1
11031	123678-HxCDF	57117-44-9	0.324	JB	0.0551	5.79	1
11031	123789-HxCDF	72918-21-9	0.266	JB	0.0668	5.79	1
11031	234678-HxCDF	60851-34-5	0.464	JB	0.0547	5.79	1
11031	1234678-HpCDF	67562-39-4	4.98	JB	0.0310	5.79	1
11031	1234789-HpCDF	55673-89-7	0.498	JB	0.0413	5.79	1
11031	OCDF	39001-02-0	8.67	JB	0.0397	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-145-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5A-SS-0.0-0.5

LLI Sample # SW 6217831
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 09:42

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD145 SDG#: DX058-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-145-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5A-SS-0.0-0.5

LLI Sample # SW 6217831
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 09:42

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD145 SDG#: DX058-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/10/2011 18:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-253-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SS-0.0-0.5

LLI Sample # SW 6217832
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 11:10

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD253 SDG#: DX058-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-253-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SS-0.0-0.5

LLI Sample # SW 6217832
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 11:10

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD253 SDG#: DX058-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.136	J	0.0324	1.21	1
11031	12378-PeCDD	40321-76-4	0.243	JQ	0.0396	6.04	1
11031	123478-HxCDD	39227-28-6	0.309	J	0.0626	6.04	1
11031	123678-HxCDD	57653-85-7	1.11	JB	0.0643	6.04	1
11031	123789-HxCDD	19408-74-3	1.05	J	0.0663	6.04	1
11031	1234678-HpCDD	35822-46-9	23.0	B	0.0604	6.04	1
11031	OCDD	3268-87-9	322	B	0.0572	12.1	1
11031	2378-TCDF	51207-31-9	0.522	JQ	0.100	1.21	1
11031	12378-PeCDF	57117-41-6	0.388	JB	0.0446	6.04	1
11031	23478-PeCDF	57117-31-4	0.996	JB	0.0470	6.04	1
11031	123478-HxCDF	70648-26-9	0.898	JB	0.0607	6.04	1
11031	123678-HxCDF	57117-44-9	0.358	JB	0.0475	6.04	1
11031	123789-HxCDF	72918-21-9	0.419	JB	0.0620	6.04	1
11031	234678-HxCDF	60851-34-5	0.478	JB	0.0500	6.04	1
11031	1234678-HpCDF	67562-39-4	4.08	JB	0.0257	6.04	1
11031	1234789-HpCDF	55673-89-7	0.407	JB	0.0385	6.04	1
11031	OCDF	39001-02-0	9.27	JB	0.0581	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-253-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SS-0.0-0.5

LLI Sample # SW 6217832
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 11:10

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD253 SDG#: DX058-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-253-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SS-0.0-0.5

LLI Sample # SW 6217832
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 11:10

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD253 SDG#: DX058-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/10/2011 19:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-255-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-255-SA5A-SS-0.0-0.5

LLI Sample # SW 6217833
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:58

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD255 SDG#: DX058-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-255-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-255-SA5A-SS-0.0-0.5

LLI Sample # SW 6217833
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:58

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD255 SDG#: DX058-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0252	U	0.0252	1.08	1
11031	12378-PeCDD	40321-76-4	0.0494	JQ	0.0228	5.41	1
11031	123478-HxCDD	39227-28-6	0.0537	JQ	0.0259	5.41	1
11031	123678-HxCDD	57653-85-7	0.113	JBQ	0.0264	5.41	1
11031	123789-HxCDD	19408-74-3	0.0786	JQ	0.0247	5.41	1
11031	1234678-HpCDD	35822-46-9	2.40	JB	0.0412	5.41	1
11031	OCDD	3268-87-9	25.2	B	0.0300	10.8	1
11031	2378-TCDF	51207-31-9	0.0553	U	0.0553	1.08	1
11031	12378-PeCDF	57117-41-6	0.0787	JBQ	0.0260	5.41	1
11031	23478-PeCDF	57117-31-4	0.252	JB	0.0269	5.41	1
11031	123478-HxCDF	70648-26-9	0.223	JB	0.0297	5.41	1
11031	123678-HxCDF	57117-44-9	0.108	JBQ	0.0234	5.41	1
11031	123789-HxCDF	72918-21-9	0.0617	JB	0.0285	5.41	1
11031	234678-HxCDF	60851-34-5	0.179	JBQ	0.0229	5.41	1
11031	1234678-HpCDF	67562-39-4	0.819	JB	0.0175	5.41	1
11031	1234789-HpCDF	55673-89-7	0.100	JB	0.0258	5.41	1
11031	OCDF	39001-02-0	1.08	JB	0.0457	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-255-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-255-SA5A-SS-0.0-0.5

LLI Sample # SW 6217833
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:58

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD255 SDG#: DX058-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-255-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-255-SA5A-SS-0.0-0.5

LLI Sample # SW 6217833
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:58

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD255 SDG#: DX058-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/10/2011 20:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

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Analysis Report

Sample Description: **EB02-SA5A-022811 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5A-022811

LLI Sample # WW 6217834
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:35

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB02 SDG#: DX058-12EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.103	U	0.103	2.13	1
10915	12378-PeCDD	40321-76-4	0.106	JBQ	0.105	10.6	1
10915	123478-HxCDD	39227-28-6	0.123	JBQ	0.0932	10.6	1
10915	123678-HxCDD	57653-85-7	0.210	JBQ	0.0967	10.6	1
10915	123789-HxCDD	19408-74-3	0.109	JBQ	0.0903	10.6	1
10915	1234678-HpCDD	35822-46-9	2.22	JBQ	0.130	10.6	1
10915	OCDD	3268-87-9	4.10	JB	0.190	21.3	1
10915	2378-TCDF	51207-31-9	0.111	JBQ	0.0745	2.13	1
10915	12378-PeCDF	57117-41-6	0.167	JB	0.0624	10.6	1
10915	23478-PeCDF	57117-31-4	0.571	JBQ	0.0576	10.6	1
10915	123478-HxCDF	70648-26-9	0.597	JBQ	0.0984	10.6	1
10915	123678-HxCDF	57117-44-9	0.522	JB	0.0932	10.6	1
10915	123789-HxCDF	72918-21-9	0.0837	U	0.0837	10.6	1
10915	234678-HxCDF	60851-34-5	1.01	JBQ	0.0846	10.6	1
10915	1234678-HpCDF	67562-39-4	4.13	JB	0.0905	10.6	1
10915	1234789-HpCDF	55673-89-7	0.509	JBQ	0.0995	10.6	1
10915	OCDF	39001-02-0	2.20	JB	0.140	21.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	61	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB02-SA5A-022811 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5A-022811

LLI Sample # WW 6217834
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 12:35

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB02 SDG#: DX058-12EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066002	03/11/2011 10:42	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11066002	03/08/2011 08:00	Deborah M Zimmerman	1

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Analysis Report

Sample Description: **EB03-SA5A-022811 Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5A-022811

LLI Sample # WW 6217835
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB03 SDG#: DX058-13EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.0934 U	0.0934	1.91	1
10915	12378-PeCDD	40321-76-4	0.100 U	0.100	9.53	1
10915	123478-HxCDD	39227-28-6	0.0996 JBQ	0.0988	9.53	1
10915	123678-HxCDD	57653-85-7	0.257 JB	0.102	9.53	1
10915	123789-HxCDD	19408-74-3	0.342 JB	0.0946	9.53	1
10915	1234678-HpCDD	35822-46-9	3.42 JBQ	0.159	9.53	1
10915	OCDD	3268-87-9	7.37 JB	0.182	19.1	1
10915	2378-TCDF	51207-31-9	0.0739 U	0.0739	1.91	1
10915	12378-PeCDF	57117-41-6	0.258 JBQ	0.0690	9.53	1
10915	23478-PeCDF	57117-31-4	0.892 JB	0.0632	9.53	1
10915	123478-HxCDF	70648-26-9	0.953 JB	0.139	9.53	1
10915	123678-HxCDF	57117-44-9	0.870 JB	0.133	9.53	1
10915	123789-HxCDF	72918-21-9	0.522 JBQ	0.130	9.53	1
10915	234678-HxCDF	60851-34-5	1.39 JB	0.122	9.53	1
10915	1234678-HpCDF	67562-39-4	6.67 JB	0.106	9.53	1
10915	1234789-HpCDF	55673-89-7	0.551 JB	0.118	9.53	1
10915	OCDF	39001-02-0	3.29 JB	0.169	19.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	52	25 - 164
13C12-12378-PeCDD	49	25 - 181
13C12-123478-HxCDD	46	32 - 141
13C12-123678-HxCDD	45	28 - 130
13C12-123789-HxCDD	45	28 - 130
13C12-1234678-HpCDD	44	23 - 140
13C12-OCDD	40	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	42	24 - 185
13C12-23478-PeCDF	44	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	40	26 - 123
13C12-234678-HxCDF	42	28 - 136
13C12-123789-HxCDF	43	29 - 147
13C12-1234678-HpCDF	39	28 - 143
13C12-1234789-HpCDF	40	26 - 138
13C12-OCDF	36	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB03-SA5A-022811 Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5A-022811

LLI Sample # WW 6217835
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB03 SDG#: DX058-13EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066002	03/11/2011 11:39	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11066002	03/08/2011 08:00	Deborah M Zimmerman	1

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Analysis Report

Sample Description: **SL-237-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-4.0-5.0

LLI Sample # SW 6217836
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:35

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2374 SDG#: DX058-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-237-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-4.0-5.0

LLI Sample # SW 6217836
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:35

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2374 SDG#: DX058-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0193 JQ	0.0168	1.11	1
11031	12378-PeCDD	40321-76-4	0.0396 JBQ	0.0181	5.55	1
11031	123478-HxCDD	39227-28-6	0.0295 JBQ	0.0221	5.55	1
11031	123678-HxCDD	57653-85-7	0.163 JBQ	0.0224	5.55	1
11031	123789-HxCDD	19408-74-3	0.304 JB	0.0208	5.55	1
11031	1234678-HpCDD	35822-46-9	0.410 JB	0.0284	5.55	1
11031	OCDD	3268-87-9	1.80 JB	0.0251	11.1	1
11031	2378-TCDF	51207-31-9	0.0168 U	0.0168	1.11	1
11031	12378-PeCDF	57117-41-6	0.0750 JB	0.00821	5.55	1
11031	23478-PeCDF	57117-31-4	0.0812 JB	0.00810	5.55	1
11031	123478-HxCDF	70648-26-9	0.0632 JB	0.0170	5.55	1
11031	123678-HxCDF	57117-44-9	0.0631 JB	0.0138	5.55	1
11031	123789-HxCDF	72918-21-9	0.309 JB	0.0160	5.55	1
11031	234678-HxCDF	60851-34-5	0.0868 JBQ	0.0135	5.55	1
11031	1234678-HpCDF	67562-39-4	0.232 JB	0.0140	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0834 JB	0.0225	5.55	1
11031	OCDF	39001-02-0	0.288 JB	0.0316	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	94	25 - 164
13C12-12378-PeCDD	125	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	93	24 - 169
13C12-12378-PeCDF	123	24 - 185
13C12-23478-PeCDF	118	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	93	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	111	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-237-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-4.0-5.0

LLI Sample # SW 6217836
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:35

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2374 SDG#: DX058-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-237-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-4.0-5.0

LLI Sample # SW 6217836
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:35

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2374 SDG#: DX058-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11073001	03/17/2011 15:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11073001	03/14/2011 13:10	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-237-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-9.0-10.0

LLI Sample # SW 6217837
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2379 SDG#: DX058-15*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-237-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-9.0-10.0

LLI Sample # SW 6217837
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2379 SDG#: DX058-15*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0493	J	0.0102	1.11	1
11031	12378-PeCDD	40321-76-4	0.0819	JB	0.0142	5.53	1
11031	123478-HxCDD	39227-28-6	0.0746	JBQ	0.0258	5.53	1
11031	123678-HxCDD	57653-85-7	0.271	JB	0.0259	5.53	1
11031	123789-HxCDD	19408-74-3	0.186	JB	0.0243	5.53	1
11031	1234678-HpCDD	35822-46-9	10.5	B	0.0279	5.53	1
11031	OCDD	3268-87-9	131	B	0.0386	11.1	1
11031	2378-TCDF	51207-31-9	0.0419	JBQ	0.0105	1.11	1
11031	12378-PeCDF	57117-41-6	0.0491	JB	0.00819	5.53	1
11031	23478-PeCDF	57117-31-4	0.153	JB	0.00774	5.53	1
11031	123478-HxCDF	70648-26-9	0.105	JB	0.0227	5.53	1
11031	123678-HxCDF	57117-44-9	0.108	JBQ	0.0202	5.53	1
11031	123789-HxCDF	72918-21-9	0.122	JB	0.0177	5.53	1
11031	234678-HxCDF	60851-34-5	0.211	JB	0.0158	5.53	1
11031	1234678-HpCDF	67562-39-4	1.01	JB	0.0256	5.53	1
11031	1234789-HpCDF	55673-89-7	0.186	JBQ	0.0233	5.53	1
11031	OCDF	39001-02-0	1.71	JB	0.0372	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-237-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-9.0-10.0

LLI Sample # SW 6217837
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2379 SDG#: DX058-15*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-237-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-237-SA5A-SB-9.0-10.0

LLI Sample # SW 6217837
LLI Group # 1235030
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/28/2011 15:40

Submitted: 03/01/2011 09:15
Reported: 03/28/2011 21:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2379 SDG#: DX058-15*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11073001	03/17/2011 02:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11073001	03/14/2011 13:10	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401A	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235030
Reported: 03/28/11 at 09:32 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11067162401A	Sample number(s): 6217821-6217833,6217836-6217837								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11066001	Sample number(s): 6217821-6217833								
2378-TCDD	0.0229 U	0.0229	1.00	ng/kg	100		67-158		
12378-PeCDD	0.0216 U	0.0216	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0166 U	0.0166	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0262 J	0.0173	5.00	ng/kg	104		76-134		
123789-HxCDD	0.0165 U	0.0165	5.00	ng/kg	104		64-162		
1234678-HpCDD	0.120 J	0.0211	5.00	ng/kg	102		70-140		
OCDD	0.362 J	0.0245	10.0	ng/kg	102		78-144		
2378-TCDF	0.0235 U	0.0235	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0237 J	0.0132	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0628 J	0.0145	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0168 J	0.0112	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0321 J	0.00960	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0403 J	0.0117	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0395 J	0.0103	5.00	ng/kg	105		70-156		
1234678-HpCDF	0.0665 J	0.00770	5.00	ng/kg	105		82-122		
1234789-HpCDF	0.0298 J	0.0128	5.00	ng/kg	103		78-138		
OCDF	0.191 J	0.0330	10.0	ng/kg	104		63-170		
Batch number: 11066002	Sample number(s): 6217834-6217835								
2378-TCDD	0.156 U	0.156	2.00	pg/l	84		67-158		
12378-PeCDD	0.374 J	0.195	10.0	pg/l	87		70-142		
123478-HxCDD	0.576 J	0.162	10.0	pg/l	89		70-164		
123678-HxCDD	0.332 J	0.169	10.0	pg/l	88		76-134		
123789-HxCDD	0.634 J	0.156	10.0	pg/l	87		64-162		
1234678-HpCDD	3.30 J	0.199	10.0	pg/l	90		70-140		
OCDD	6.88 J	0.265	20.0	pg/l	94		78-144		
2378-TCDF	0.158 J	0.112	2.00	pg/l	87		75-158		
12378-PeCDF	0.528 J	0.110	10.0	pg/l	83		80-134		
23478-PeCDF	1.10 J	0.101	10.0	pg/l	83		68-160		
123478-HxCDF	1.04 J	0.207	10.0	pg/l	88		72-134		
123678-HxCDF	1.11 J	0.189	10.0	pg/l	89		84-130		
123789-HxCDF	1.20 J	0.196	10.0	pg/l	87		78-130		
234678-HxCDF	1.70 J	0.180	10.0	pg/l	88		70-156		
1234678-HpCDF	6.54 J	0.182	10.0	pg/l	93		82-122		
1234789-HpCDF	1.19 J	0.205	10.0	pg/l	90		78-138		
OCDF	4.19 J	0.234	20.0	pg/l	92		63-170		
Batch number: 11073001	Sample number(s): 6217836-6217837								
2378-TCDD	0.00850 U	0.00850	1.00	ng/kg	87		67-158		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235030
Reported: 03/28/11 at 09:32 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
12378-PeCDD	0.0159 J	0.00920	5.00	ng/kg	88		70-142		
123478-HxCDD	0.00942 J	0.00930	5.00	ng/kg	86		70-164		
123678-HxCDD	0.0267 J	0.00950	5.00	ng/kg	88		76-134		
123789-HxCDD	0.0153 J	0.00880	5.00	ng/kg	86		64-162		
1234678-HpCDD	0.208 J	0.0138	5.00	ng/kg	86		70-140		
OCDD	0.397 J	0.0113	10.0	ng/kg	87		78-144		
2378-TCDF	0.0133 J	0.00870	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0184 J	0.00490	5.00	ng/kg	84		80-134		
23478-PeCDF	0.0583 J	0.00520	5.00	ng/kg	84		68-160		
123478-HxCDF	0.0547 J	0.0101	5.00	ng/kg	86		72-134		
123678-HxCDF	0.0394 J	0.00790	5.00	ng/kg	85		84-130		
123789-HxCDF	0.0578 J	0.0111	5.00	ng/kg	85		78-130		
234678-HxCDF	0.0651 J	0.00870	5.00	ng/kg	86		70-156		
1234678-HpCDF	0.181 J	0.00630	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.0599 J	0.0120	5.00	ng/kg	87		78-138		
OCDF	0.242 J	0.0177	10.0	ng/kg	85		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11067162401A	Sample number(s): 6217821-6217833,6217836-6217837					BKG: P217791			
Moisture Content by 160.3						14.7	14.7	1	20
Batch number: 11066001	Sample number(s): 6217821-6217833 UNSPK: 6217822								
2378-TCDD	98	97	67-158	1	25				
12378-PeCDD	101	104	70-142	4	25				
123478-HxCDD	100	100	70-164	0	25				
123678-HxCDD	102	103	76-134	1	25				
123789-HxCDD	101	101	64-162	0	25				
1234678-HpCDD	101	102	70-140	0	25				
OCDD	130	114	78-144	9	25				
2378-TCDF	105	104	75-158	1	25				
12378-PeCDF	101	102	80-134	0	25				
23478-PeCDF	101	102	68-160	0	25				
123478-HxCDF	102	102	72-134	1	25				
123678-HxCDF	100	104	84-130	3	25				
123789-HxCDF	101	103	78-130	2	25				
234678-HxCDF	102	106	70-156	4	25				
1234678-HpCDF	101	103	82-122	2	25				
1234789-HpCDF	101	103	78-138	3	25				
OCDF	93	94	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235030
Reported: 03/28/11 at 09:32 PM

Surrogate Quality Control

Batch number: 11066001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6217821	76	77	66	79	73	63
6217822	78	84	75	87	78	67
6217823	80	83	78	88	79	68
6217824	77	80	75	81	77	72
6217825	83	87	81	86	81	80
6217826	75	80	74	86	75	70
6217827	80	95	82	87	83	82
6217828	79	93	84	87	86	82
6217829	70	77	61	70	70	71
6217830	85	91	70	80	84	81
6217831	78	87	68	80	77	71
6217832	77	88	69	85	78	72
6217833	78	83	66	82	80	74
Blank	73	74	66	77	68	67
MS	80	83	78	88	79	68
MSD	77	80	75	81	77	72
OPR	82	84	59	77	77	77
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6217821	75	52	36	89	86	81
6217822	79	52	32	90	90	84
6217823	80	57	41	95	90	84
6217824	76	63	49	84	80	82
6217825	78	71	59	94	90	82
6217826	82	57	48	92	83	77
6217827	76	71	59	96	93	82
6217828	83	70	58	93	94	87
6217829	64	61	51	78	80	70
6217830	74	70	59	90	93	80
6217831	74	62	53	90	88	79
6217832	83	61	50	90	90	82
6217833	80	60	49	88	88	82
Blank	84	58	53	87	84	78
MS	80	57	41	95	90	84
MSD	76	63	49	84	80	82
OPR	75	65	57	90	88	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6217821	79	77	63	50	74	86
6217822	82	82	67	51	77	96
6217823	83	81	68	53	77	95
6217824	80	78	68	56	75	87
6217825	83	83	74	65	81	95
6217826	78	77	67	59	76	93
6217827	83	81	71	62	83	98
6217828	86	86	73	62	82	97
6217829	72	72	62	53	72	83

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235030
Reported: 03/28/11 at 09:32 PM

Surrogate Quality Control

6217830	83	85	73	64	85	99
6217831	80	77	66	58	79	98
6217832	83	80	70	60	80	97
6217833	81	83	68	58	76	97
Blank	77	77	72	66	68	89
MS	83	81	68	53	77	95
MSD	80	78	68	56	75	87
OPR	81	81	74	68	78	95
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11066002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6217834	69	61	56	58	60	66
6217835	52	44	38	40	42	43
Blank	42	36	32	34	34	36
OPR	74	68	65	66	67	71
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6217834	58	59	54	90	68	65
6217835	39	40	36	91	49	46
Blank	34	34	33	86	38	37
OPR	66	65	61	86	74	75
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6217834	65	66	64	59	64	61
6217835	45	45	44	40	50	42
Blank	37	38	38	36	43	35
OPR	73	73	72	66	68	67
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11073001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6217836	94	118	75	91	93	84
6217837	82	77	59	69	85	83
Blank	67	58	54	67	58	51
OPR	79	65	60	75	67	57
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6217836	101	72	59	111	125	90
6217837	62	70	43	95	77	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235030
Reported: 03/28/11 at 09:32 PM

Surrogate Quality Control

Blank	81	47	43	90	70	72
OPR	87	52	48	92	79	83
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6217836	90	92	83	71	93	123
6217837	79	83	69	51	80	77
Blank	74	73	72	67	57	66
OPR	81	81	79	74	66	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1235030 6217821-37

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCT's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
DUP-05-SA5A-QC-022811	2.28.11	1205	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
DUP-05-SA5A-QC-022811	2.28.11	1205	SOIL	NONE	1-6 inch sleeve			X	X							
SL-087-SA5A-SS-0.0-0.5MS	2.28.11	1200	SOIL	NONE	2-16 oz jars	X	X			X	X	X		X	X	MS/MSD sample
SL-087-SA5A-SS-0.0-0.5MS	2.28.11	1200	SOIL	NONE	2-6 inch sleeves			X	X							MS/MSD sample
SL-105-SA5A-SS-0.0-0.5	2.28.11	1422	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-105-SA5A-SS-0.0-0.5	2.28.11	1422	SOIL	NONE	1-6 inch sleeve			X	X							
SL-106-SA5A-SS-0.0-0.5	2.28.11	1405	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-106-SA5A-SS-0.0-0.5	2.28.11	1405	SOIL	NONE	1-6 inch sleeve			X	X							
SL-107-SA5A-SS-0.0-0.5	2.28.11	1440	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-107-SA5A-SS-0.0-0.5	2.28.11	1440	SOIL	NONE	1-6 inch sleeve			X	X							
SL-108-SA5A-SS-0.0-0.5	2.28.11	1456	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-108-SA5A-SS-0.0-0.5	2.28.11	1456	SOIL	NONE	1-6 inch sleeve			X	X							
SL-109-SA5A-SS-0.0-0.5	2.28.11	1512	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-109-SA5A-SS-0.0-0.5	2.28.11	1512	SOIL	NONE	1-6 inch sleeve			X	X							
SL-111-SA5A-SS-0.0-0.5	2.28.11	1025	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-111-SA5A-SS-0.0-0.5	2.28.11	1025	SOIL	NONE	1-6 inch sleeve			X	X							
SL-145-SA5A-SS-0.0-0.5	2.28.11	0942	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-145-SA5A-SS-0.0-0.5	2.28.11	0942	SOIL	NONE	1-6 inch sleeve			X	X							
SL-253-SA5A-SS-0.0-0.5	2.28.11	1110	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-253-SA5A-SS-0.0-0.5	2.28.11	1110	SOIL	NONE	1-6 inch sleeve			X	X							
SL-255-SA5A-SS-0.0-0.5	2.28.11	1558	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-255-SA5A-SS-0.0-0.5	2.28.11	1558	SOIL	NONE	1-6 inch sleeve			X	X							
EB02-SA5A-022811	2.28.11	1235	WATER	NONE	6-1 L ambers			X	X	X				X	X	Surface rinsate blank
EB02-SA5A-022811	2.28.11	1235	WATER	HNO3	1-500 mL poly	X										Surface rinsate blank
EB02-SA5A-022811	2.28.11	1235	WATER	NONE	1-500 mL poly		X				X	X				Surface rinsate blank

Relinquished by: (Signature) — Date/Time: 02/28/2011 / 17:00

Received for Laboratory by: (Signature) LLI 3/1/11 915

Received by: (Signature) — Date/Time

Airbill No.(s)
8695 1432 6610; 8695 1432 6621
8695 1432 6632

Laboratory:
Lancaster Laboratories, Inc.

EB03

13013 1235030 6217821-37

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								SS ONLY		
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
EB03-SA5A-022811	2.28.11	1540	WATER	NONE	6-1 L ambers				X	X	X				X	X	Surface rinsate blank
EB03-SA5A-022811	2.28.11	1540	WATER	HNO3	1-500 mL poly		X										Surface rinsate blank
EB03-SA5A-022811	2.28.11	1540	WATER	NONE	1-500 mL poly			X				X	X				Surface rinsate blank
Relinquished by: (*Signature*)	Date/Time 02/28/2011 / 17:00		Received for Laboratory by: (*Signature*) LLJ 3/1/11 @GLV 3/1/11 & 915														Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No(s) 8695 1432 6610; 8695 1432 6621 8695 1432 6632														

13013 1235030 6217821-37

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
SL-237-SA5A-SB-4.0-5.0	2.28.11	1535	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-237-SA5A-SB-4.5	2.28.11	1530	SOIL	NONE	4-Encores									X	X		
SL-237-SA5A-SB-9.0-10.0	2.28.11	1540	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
TB-022811	2.28.11	1630	WATER	HCl	3-40 mL VOA VIALS									X	X		TRIP BLANK
Relinquished by: (Signature)	Date/Time 02/28/2011 / 17:00		Received for Laboratory by: (Signature) 3/1/11 915														Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8695 1432 6610; 8695 1432 6621 8695 1432 6632														

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 29, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/02/2011
Group Number: 1235277
SDG: DE094
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-06-SA5A-QC-030111 Soil	6218894
SL-066-SA5A-SS-0.0-0.5 Soil	6218895
SL-072-SA5A-SS-0.0-0.5 Soil	6218896
SL-076-SA5A-SS-0.0-0.5 Soil	6218897
SL-077-SA5A-SS-0.0-0.5 Soil	6218898
SL-078-SA5A-SS-0.0-0.5 Soil	6218899
SL-103-SA5A-SS-0.0-0.5 Soil	6218900
SL-104-SA5A-SS-0.0-0.5 Soil	6218901
SL-191-SA5A-SS-0.0-0.5 Soil	6218902
SL-194-SA5A-SS-0.0-0.3 Soil	6218903
SL-195-SA5A-SS-0.0-0.2 Soil	6218904
SL-256-SA5A-SS-0.0-0.5 Soil	6218905
SL-256-SA5A-SS-0.0-0.5MS Soil	6218906
SL-256-SA5A-SS-0.0-0.5MSD Soil	6218907
SL-256-SA5A-SS-0.0-0.5DUP Soil	6218908
SL-257-SA5A-SS-0.0-0.5 Soil	6218909
EB04-SA5A-030111 Water	6218910
SL-244-SA5A-SB-4.0-5.0 Soil	6218911
SL-244-SA5A-SB-9.0-10.0 Soil	6218912
TB-030111 Water	6218913

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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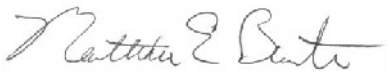
Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Matthew E. Barton
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-06-SA5A-QC-030111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-06-SA5A-QC-030111

LLI Sample # SW 6218894
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:00

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9401 SDG#: DE094-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-06-SA5A-QC-030111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-06-SA5A-QC-030111

LLI Sample # SW 6218894
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:00

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9401 SDG#: DE094-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.4	5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.4	5
10138	Anthracene	120-12-7	1.9	U	1.9	9.4	5
10138	Benzo(a)anthracene	56-55-3	3.8	U	3.8	9.4	5
10138	Benzo(a)pyrene	50-32-8	3.8	J	3.8	9.4	5
10138	Benzo(b)fluoranthene	205-99-2	21		3.8	9.4	5
10138	Benzo(g,h,i)perylene	191-24-2	3.9	J	3.8	9.4	5
10138	Benzo(k)fluoranthene	207-08-9	3.8	U	3.8	9.4	5
10138	Chrysene	218-01-9	7.5	J	1.9	9.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.4	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	38	J	34	100	5
10138	Fluoranthene	206-44-0	3.9	J	3.8	9.4	5
10138	Fluorene	86-73-7	3.8	U	3.8	9.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.4	5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.4	5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.4	5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.4	5
10138	Phenanthrene	85-01-8	3.8	U	3.8	9.4	5
10138	Pyrene	129-00-0	5.3	J	3.8	9.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	1.5	J	0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	86	U	86	280	1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-06-SA5A-QC-030111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-06-SA5A-QC-030111

LLI Sample # SW 6218894
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:00

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9401 SDG#: DE094-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	15	U	15	19	5
01363	p,p-DDD	72-54-8	1.9		0.074	0.38	1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.96		0.074	0.38	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	4.4		0.37	1.9	5
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.080	U	0.080	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.11	J	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: endrin aldehyde.
Due to interfering peaks on the chromatogram, the values reported for technical chlordane represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	19	5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	19	5
10225	Aroclor 5460	11126-42-4	5.6	U	5.6	19	5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.6	5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.6	5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.6	5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.6	5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6	5
10225	PCB-1254	11097-69-1	1.9	U	1.9	9.6	5
10225	PCB-1260	11096-82-5	5.1	J	2.2	9.6	5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6	5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.6	5

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-06-SA5A-QC-030111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-06-SA5A-QC-030111

LLI Sample # SW 6218894
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:00

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9401 SDG#: DE094-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		5.46	21.7	1
07914	Boron	7440-42-8	4.43	J	0.966	5.43	1
01650	Calcium	7440-70-2	3,990		6.65	21.7	1
01654	Iron	7439-89-6	17,600		5.11	21.7	1
01656	Lithium	7439-93-2	19.6		0.24	2.2	1
01657	Magnesium	7439-95-4	4,310		2.76	10.9	1
06958	Manganese	7439-96-5	258		0.0847	0.543	1
10145	Phosphorus	7723-14-0	312		0.608	10.9	1
01662	Potassium	7440-09-7	2,020		19.5	54.3	1
01667	Sodium	7440-23-5	85.0	J	40.5	109	1
07968	Strontium	7440-24-6	17.7		0.0673	0.543	1
06969	Tin	7440-31-5	2.64	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,200		0.412	1.09	1
10146	Zirconium	7440-67-7	1.20	J	0.912	5.43	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.246		0.0657	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.80		0.0877	0.438	2
06126	Barium	7440-39-3	91.3		0.118	0.438	2
06127	Beryllium	7440-41-7	0.674		0.0175	0.110	2
06128	Cadmium	7440-43-9	0.450		0.0438	0.110	2
06131	Chromium	7440-47-3	22.7		0.131	0.438	2
06132	Cobalt	7440-48-4	6.95		0.0219	0.110	2
06133	Copper	7440-50-8	7.97		0.0723	0.438	2
06135	Lead	7439-92-1	6.85		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.311		0.0548	0.110	2
06139	Nickel	7440-02-0	12.7		0.110	0.438	2
06141	Selenium	7782-49-2	0.165	J	0.0438	0.438	2
06142	Silver	7440-22-4	0.0317	J	0.0131	0.110	2
06145	Thallium	7440-28-0	0.315		0.0329	0.110	2
06148	Vanadium	7440-62-2	46.1		0.0241	0.110	2
06149	Zinc	7440-66-6	167		0.614	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-06-SA5A-QC-030111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-06-SA5A-QC-030111

LLI Sample # SW 6218894
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:00

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9401 SDG#: DE094-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	328	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.94	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 02:45	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 01:05	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 04:44	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 17:09	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 17:23	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 11:13	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-06-SA5A-QC-030111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-06-SA5A-QC-030111

LLI Sample # SW 6218894
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:00

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9401 SDG#: DE094-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 06:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 13:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 13:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 13:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 13:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 13:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 13:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 13:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 13:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 13:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 10:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 13:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 13:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 13:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 13:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 13:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 13:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201A	03/15/2011 13:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201A	03/14/2011 15:02	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243201A	03/09/2011 16:50	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201A	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201A	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101A	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401A	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-066-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5A-SS-0.0-0.5

LLI Sample # SW 6218895
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9402 SDG#: DE094-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Anthracene	120-12-7	25	J	19	190	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	91	J	19	190	1
04688	Benzo(a)pyrene	50-32-8	74	J	19	190	1
04688	Benzo(b)fluoranthene	205-99-2	89	J	19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	47	J	19	190	1
04688	Benzo(k)fluoranthene	207-08-9	49	J	19	190	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	40	J	19	190	1
04688	Carbazole	86-74-8	22	J	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Chrysene	218-01-9	120	J	19	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	770		19	380	1
04688	Fluoranthene	206-44-0	220		19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	40	J	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-066-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5A-SS-0.0-0.5

LLI Sample # SW 6218895
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9402 SDG#: DE094-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenanthrene	85-01-8	170	J	19	190	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	Pyrene	129-00-0	220		19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 44 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	1.1	U	1.1	1.9	1
10401	Dicamba	1918-00-9	0.46	J	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	86	U	86	280	1
10401	MCPP (Mecoprop)	93-65-2	160	U	160	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following						

Sample Description: **SL-066-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5A-SS-0.0-0.5

LLI Sample # SW 6218895
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9402 SDG#: DE094-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	compounds were affected: MCPP and 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	1.9	U	1.9	3.9	1
01363	p,p-DDD	72-54-8	0.20	U	0.20	0.39	1
01363	p,p-DDE	72-55-9	0.078	U	0.078	0.39	1
01363	p,p-DDT	50-29-3	1.2		0.075	0.39	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.087	U	0.087	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39	1
01363	Endrin	72-20-8	0.075	U	0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39	1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: p,p-DDE and p,p-DDD

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	37	10
10225	Aroclor 5442	12642-23-8	11	U	11	37	10
10225	Aroclor 5460	11126-42-4	18	J	11	37	10
10225	PCB-1016	12674-11-2	3.7	U	3.7	19	10
10225	PCB-1221	11104-28-2	3.7	U	3.7	19	10
10225	PCB-1232	11141-16-5	3.7	U	3.7	19	10
10225	PCB-1242	53469-21-9	3.7	U	3.7	19	10
10225	PCB-1248	12672-29-6	3.7	U	3.7	19	10
10225	PCB-1254	11097-69-1	12	J	3.7	19	10
10225	PCB-1260	11096-82-5	4.4	U	4.4	19	10
10225	PCB-1262	37324-23-5	3.7	U	3.7	19	10

*=This limit was used in the evaluation of the final result

Sample Description: **SL-066-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5A-SS-0.0-0.5

LLI Sample # SW 6218895
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9402 SDG#: DE094-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	3.7	U	3.7	19	10
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000		5.48	21.8	1
07914	Boron	7440-42-8	7.33		0.970	5.45	1
01650	Calcium	7440-70-2	4,310		6.68	21.8	1
01654	Iron	7439-89-6	24,500		5.13	21.8	1
01656	Lithium	7439-93-2	27.5		0.24	2.2	1
01657	Magnesium	7439-95-4	5,140		2.77	10.9	1
06958	Manganese	7439-96-5	336		0.0850	0.545	1
10145	Phosphorus	7723-14-0	534		0.611	10.9	1
01662	Potassium	7440-09-7	3,410		19.6	54.5	1
01667	Sodium	7440-23-5	94.6	J	40.7	109	1
07968	Strontium	7440-24-6	20.0		0.0676	0.545	1
06969	Tin	7440-31-5	3.02	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,330		0.414	1.09	1
10146	Zirconium	7440-67-7	0.916	U	0.916	5.45	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.589		0.0654	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	14.3		0.0872	0.436	2
06126	Barium	7440-39-3	124		0.118	0.436	2
06127	Beryllium	7440-41-7	0.867		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.338		0.0436	0.109	2
06131	Chromium	7440-47-3	36.4		0.131	0.436	2
06132	Cobalt	7440-48-4	15.7		0.0218	0.109	2
06133	Copper	7440-50-8	29.5		0.0720	0.436	2
06135	Lead	7439-92-1	17.9		0.0113	0.218	2
06138	Molybdenum	7439-98-7	0.708		0.0545	0.109	2
06139	Nickel	7440-02-0	23.0		0.109	0.436	2
06141	Selenium	7782-49-2	0.225	J	0.0436	0.436	2
06142	Silver	7440-22-4	0.187		0.0131	0.109	2
06145	Thallium	7440-28-0	0.391		0.0327	0.109	2
06148	Vanadium	7440-62-2	57.2		0.0240	0.109	2
06149	Zinc	7440-66-6	116		0.611	3.27	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.91	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-066-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5A-SS-0.0-0.5

LLI Sample # SW 6218895
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9402 SDG#: DE094-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	457		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.30		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.8		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 03:10	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 01:35	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 05:11	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 17:37	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 11:31	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-066-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5A-SS-0.0-0.5

LLI Sample # SW 6218895
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9402 SDG#: DE094-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 06:32	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 13:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 13:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 13:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 13:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 13:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 13:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 13:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 13:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/16/2011 11:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 11:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 13:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 13:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 13:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 13:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 13:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 13:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201A	03/15/2011 13:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201A	03/14/2011 13:02	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243201A	03/09/2011 17:02	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201A	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201A	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101A	03/03/2011 14:40	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-066-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5A-SS-0.0-0.5

LLI Sample # SW 6218895
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9402 SDG#: DE094-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401A	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SS-0.0-0.5

LLI Sample # SW 6218896
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:58

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9403 SDG#: DE094-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SS-0.0-0.5

LLI Sample # SW 6218896
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:58

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9403 SDG#: DE094-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	2.5		0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	130	J	85	280	1
10401	MCPP (Mecoprop)	93-65-2	150	U	150	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19	1
	Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SS-0.0-0.5

LLI Sample # SW 6218896
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:58

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9403 SDG#: DE094-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.40		0.074	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.38	1
01363	Endrin Ketone	53494-70-5	0.23	J	0.074	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported for endrin aldehyde represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,400	5.53	22.0	1
07914	Boron	7440-42-8	6.89	0.979	5.50	1
01650	Calcium	7440-70-2	3,470	6.75	22.0	1
01654	Iron	7439-89-6	26,500	5.18	22.0	1
01656	Lithium	7439-93-2	30.6	0.24	2.2	1
01657	Magnesium	7439-95-4	5,810	2.79	11.0	1
06958	Manganese	7439-96-5	422	0.0858	0.550	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SS-0.0-0.5

LLI Sample # SW 6218896
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:58

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9403 SDG#: DE094-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	530		0.616	11.0	1
01662	Potassium	7440-09-7	3,370		19.8	55.0	1
01667	Sodium	7440-23-5	102	J	41.0	110	1
07968	Strontium	7440-24-6	17.5		0.0682	0.550	1
06969	Tin	7440-31-5	3.06	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,420		0.418	1.10	1
10146	Zirconium	7440-67-7	0.924	U	0.924	5.50	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.228		0.0660	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.9		0.0880	0.440	2
06126	Barium	7440-39-3	123		0.119	0.440	2
06127	Beryllium	7440-41-7	0.791		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.227		0.0440	0.110	2
06131	Chromium	7440-47-3	29.1		0.132	0.440	2
06132	Cobalt	7440-48-4	12.4		0.0220	0.110	2
06133	Copper	7440-50-8	26.3		0.0726	0.440	2
06135	Lead	7439-92-1	12.0		0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.580		0.0550	0.110	2
06139	Nickel	7440-02-0	19.3		0.110	0.440	2
06141	Selenium	7782-49-2	0.219	J	0.0440	0.440	2
06142	Silver	7440-22-4	0.0900	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.372		0.0330	0.110	2
06148	Vanadium	7440-62-2	57.5		0.0242	0.110	2
06149	Zinc	7440-66-6	94.4		0.616	3.30	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	475		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-072-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SS-0.0-0.5

LLI Sample # SW 6218896
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:58

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9403 SDG#: DE094-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.00	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 03:36	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 02:06	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 05:39	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 17:51	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 11:50	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SS-0.0-0.5

LLI Sample # SW 6218896
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:58

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9403 SDG#: DE094-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 06:36	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 13:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 13:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 13:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 13:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 13:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 13:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 13:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 13:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 13:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 10:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 13:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 13:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 13:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 13:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 13:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 13:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201A	03/15/2011 14:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201A	03/14/2011 15:26	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243201A	03/09/2011 17:15	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201A	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201A	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101A	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401A	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-076-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SS-0.0-0.5

LLI Sample # SW 6218897
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:17

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9404 SDG#: DE094-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SS-0.0-0.5

LLI Sample # SW 6218897
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:17

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9404 SDG#: DE094-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	8.9	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9	5
10138	Anthracene	120-12-7	1.8	U	1.8	8.9	5
10138	Benzo(a)anthracene	56-55-3	3.6	U	3.6	8.9	5
10138	Benzo(a)pyrene	50-32-8	3.6	U	3.6	8.9	5
10138	Benzo(b)fluoranthene	205-99-2	7.3	J	3.6	8.9	5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	U	3.6	8.9	5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	8.9	5
10138	Chrysene	218-01-9	5.1	J	1.8	8.9	5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	8.9	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	32	U	32	96	5
10138	Fluoranthene	206-44-0	5.6	J	3.6	8.9	5
10138	Fluorene	86-73-7	3.6	U	3.6	8.9	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	8.9	5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	8.9	5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	8.9	5
10138	Naphthalene	91-20-3	3.6	U	3.6	8.9	5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	8.9	5
10138	Phenanthrene	85-01-8	3.6	U	3.6	8.9	5
10138	Pyrene	129-00-0	5.6	J	3.6	8.9	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	3.3		0.67	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	130	J	82	270	1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270	1
10401	2,4,5-T	93-76-5	0.18	J	0.089	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SS-0.0-0.5

LLI Sample # SW 6218897
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:17

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9404 SDG#: DE094-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.069	J	0.037	0.18	1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37	1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.37	1
01363	p,p-DDT	50-29-3	1.0		0.071	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.10	J	0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37	1
01363	Endrin	72-20-8	0.071	U	0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.57		0.071	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS recovery for endosulfan II is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		5.28	21.0	1
07914	Boron	7440-42-8	8.11		0.934	5.25	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-076-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SS-0.0-0.5

LLI Sample # SW 6218897
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:17

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9404 SDG#: DE094-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	4,570		6.43	21.0	1
01654	Iron	7439-89-6	39,900		24.7	105	5
01656	Lithium	7439-93-2	16.6		0.23	2.1	1
01657	Magnesium	7439-95-4	5,390		2.67	10.5	1
06958	Manganese	7439-96-5	343		0.0819	0.525	1
10145	Phosphorus	7723-14-0	733		0.588	10.5	1
01662	Potassium	7440-09-7	3,540		18.9	52.5	1
01667	Sodium	7440-23-5	420		39.1	105	1
07968	Strontium	7440-24-6	25.2		0.0651	0.525	1
06969	Tin	7440-31-5	2.66	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,410		0.399	1.05	1
10146	Zirconium	7440-67-7	0.882	U	0.882	5.25	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.678		0.0642	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	30.4		0.0856	0.428	2
06126	Barium	7440-39-3	128		0.116	0.428	2
06127	Beryllium	7440-41-7	0.554		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.341		0.0428	0.107	2
06131	Chromium	7440-47-3	26.7		0.128	0.428	2
06132	Cobalt	7440-48-4	45.6		0.0214	0.107	2
06133	Copper	7440-50-8	50.9		0.0706	0.428	2
06135	Lead	7439-92-1	12.0		0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.657		0.0535	0.107	2
06139	Nickel	7440-02-0	19.1		0.107	0.428	2
06141	Selenium	7782-49-2	0.144	J	0.0428	0.428	2
06142	Silver	7440-22-4	0.0546	J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.361		0.0321	0.107	2
06148	Vanadium	7440-62-2	69.6		0.0235	0.107	2
06149	Zinc	7440-66-6	117		0.599	3.21	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0114	J	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-076-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SS-0.0-0.5

LLI Sample # SW 6218897
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:17

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9404 SDG#: DE094-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	471	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.50	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 04:01	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 02:37	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 07:02	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110710012A	03/15/2011 14:06	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 18:04	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 12:08	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110710012A	03/14/2011 09:25	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 06:40	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 06:40	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-076-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SS-0.0-0.5

LLI Sample # SW 6218897
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:17

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9404 SDG#: DE094-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 06:40	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/12/2011 08:47	Damary Valentin	5
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 06:40	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 06:40	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 06:40	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 06:40	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 06:40	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 06:40	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 06:40	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 06:40	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 06:40	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 06:40	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 13:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 13:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/16/2011 10:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 13:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 13:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 13:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 13:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 13:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 13:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 10:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 13:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 13:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 13:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 13:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 13:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 13:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201A	03/15/2011 14:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201A	03/14/2011 16:14	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243201A	03/09/2011 17:27	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201A	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201A	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101A	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401A	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-077-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5A-SS-0.0-0.5

LLI Sample # SW 6218898
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9405 SDG#: DE094-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	78	U	78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	78	U	78	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-077-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5A-SS-0.0-0.5

LLI Sample # SW 6218898
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9405 SDG#: DE094-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.0	J	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	11	J	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2	1
10401	Dalapon	75-99-0	5.1	U	5.1	11	1
10401	2,4-DB	94-82-6	0.97	U	0.97	2.0	1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4	1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0	1
10401	MCPA	94-74-6	110	U	110	290	1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290	1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20	1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20	1

Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

Sample Description: SL-077-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5A-SS-0.0-0.5

LLI Sample # SW 6218898
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9405 SDG#: DE094-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	compounds were affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19	1
01363	Beta BHC	319-85-7	0.24		0.070	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19	1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0	1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40	1
01363	p,p-DDE	72-55-9	0.077	U	0.077	0.40	1
01363	p,p-DDT	50-29-3	0.077	U	0.077	0.40	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19	1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40	1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19	1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.10	J	0.077	0.40	1
01363	Endrin	72-20-8	0.077	U	0.077	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40	1
01363	Endrin Ketone	53494-70-5	0.15	J	0.077	0.40	1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19	1
01363	Methoxychlor	72-43-5	0.66	J	0.40	1.9	1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,800		5.82	23.2	1
07914	Boron	7440-42-8	9.43		1.03	5.79	1
01650	Calcium	7440-70-2	4,410		7.10	23.2	1
01654	Iron	7439-89-6	35,600		27.3	116	5
01656	Lithium	7439-93-2	40.2		0.25	2.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-077-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5A-SS-0.0-0.5

LLI Sample # SW 6218898
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9405 SDG#: DE094-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	7,430		2.94	11.6	1
06958	Manganese	7439-96-5	331		0.0903	0.579	1
10145	Phosphorus	7723-14-0	571		0.648	11.6	1
01662	Potassium	7440-09-7	3,110		20.8	57.9	1
01667	Sodium	7440-23-5	168		43.2	116	1
07968	Strontium	7440-24-6	19.4		0.0718	0.579	1
06969	Tin	7440-31-5	3.78	J	1.16	11.6	1
06970	Titanium	7440-32-6	1,530		0.440	1.16	1
10146	Zirconium	7440-67-7	1.12	J	0.973	5.79	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.396		0.0681	0.227	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	18.2		0.0908	0.454	2
06126	Barium	7440-39-3	169		0.123	0.454	2
06127	Beryllium	7440-41-7	1.86		0.0182	0.114	2
06128	Cadmium	7440-43-9	0.166		0.0454	0.114	2
06131	Chromium	7440-47-3	47.4		0.136	0.454	2
06132	Cobalt	7440-48-4	14.8		0.0227	0.114	2
06133	Copper	7440-50-8	33.7		0.0749	0.454	2
06135	Lead	7439-92-1	14.0		0.0118	0.227	2
06138	Molybdenum	7439-98-7	0.987		0.0568	0.114	2
06139	Nickel	7440-02-0	33.1		0.114	0.454	2
06141	Selenium	7782-49-2	0.365	J	0.0454	0.454	2
06142	Silver	7440-22-4	0.132		0.0136	0.114	2
06145	Thallium	7440-28-0	0.580		0.0341	0.114	2
06148	Vanadium	7440-62-2	82.7		0.0250	0.114	2
06149	Zinc	7440-66-6	146		0.636	3.41	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9		0.94	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	470		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-077-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5A-SS-0.0-0.5

LLI Sample # SW 6218898
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9405 SDG#: DE094-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.11	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 04:25	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 08:47	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 07:29	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 18:19	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 12:27	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 06:44	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 06:44	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 06:44	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/12/2011 08:51	Damary Valentin	5
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 06:44	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 06:44	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 06:44	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 06:44	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 06:44	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 06:44	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 06:44	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 06:44	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-077-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5A-SS-0.0-0.5

LLI Sample # SW 6218898
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:45

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E9405 SDG#: DE094-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 06:44	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 06:44	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 13:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 13:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 13:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 13:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 13:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 13:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 13:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 13:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/16/2011 10:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 10:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 13:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 13:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 13:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 13:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 13:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 13:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201A	03/15/2011 14:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201A	03/14/2011 16:38	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243201A	03/09/2011 17:40	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201A	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201A	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101A	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401A	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-078-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5A-SS-0.0-0.5

LLI Sample # SW 6218899
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:05

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9406 SDG#: DE094-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-078-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5A-SS-0.0-0.5

LLI Sample # SW 6218899
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:05

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9406 SDG#: DE094-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	11	J	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	2.1	U	2.1	2.1	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	85	U	85	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-078-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5A-SS-0.0-0.5

LLI Sample # SW 6218899
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:05

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9406 SDG#: DE094-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.24		0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.80		0.074	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000	5.56	22.1	1
07914	Boron	7440-42-8	8.30	0.985	5.53	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-078-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5A-SS-0.0-0.5

LLI Sample # SW 6218899
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:05

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9406 SDG#: DE094-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,940		6.78	22.1	1
01654	Iron	7439-89-6	33,300		26.1	111	5
01656	Lithium	7439-93-2	30.6		0.24	2.2	1
01657	Magnesium	7439-95-4	6,610		2.81	11.1	1
06958	Manganese	7439-96-5	398		0.0863	0.553	1
10145	Phosphorus	7723-14-0	622		0.620	11.1	1
01662	Potassium	7440-09-7	3,900		19.9	55.3	1
01667	Sodium	7440-23-5	180		41.3	111	1
07968	Strontium	7440-24-6	22.6		0.0686	0.553	1
06969	Tin	7440-31-5	3.20	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,610		0.420	1.11	1
10146	Zirconium	7440-67-7	0.929	U	0.929	5.53	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.209	J	0.0651	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.4		0.0868	0.434	2
06126	Barium	7440-39-3	152		0.117	0.434	2
06127	Beryllium	7440-41-7	0.864		0.0174	0.108	2
06128	Cadmium	7440-43-9	0.140		0.0434	0.108	2
06131	Chromium	7440-47-3	32.0		0.130	0.434	2
06132	Cobalt	7440-48-4	12.0		0.0217	0.108	2
06133	Copper	7440-50-8	23.3		0.0716	0.434	2
06135	Lead	7439-92-1	11.2		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.566		0.0542	0.108	2
06139	Nickel	7440-02-0	21.2		0.108	0.434	2
06141	Selenium	7782-49-2	0.200	J	0.0434	0.434	2
06142	Silver	7440-22-4	0.103	J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.442		0.0325	0.108	2
06148	Vanadium	7440-62-2	60.8		0.0239	0.108	2
06149	Zinc	7440-66-6	99.6		0.607	3.25	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-078-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5A-SS-0.0-0.5

LLI Sample # SW 6218899
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9406 SDG#: DE094-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	483	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.33	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 04:50	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 03:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 11:24	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110710012A	03/15/2011 14:25	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 18:33	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 12:45	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110710012A	03/14/2011 09:25	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 06:48	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 06:48	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-078-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5A-SS-0.0-0.5

LLI Sample # SW 6218899
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9406 SDG#: DE094-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 06:48	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/12/2011 08:55	Damary Valentin	5
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 06:48	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 06:48	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 06:48	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 06:48	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 06:48	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 06:48	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 06:48	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 06:48	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 06:48	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 06:48	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 13:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 13:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 13:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 13:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/16/2011 10:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 13:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 13:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 13:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 13:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 10:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 13:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 13:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 13:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 13:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 13:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 13:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201A	03/15/2011 15:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201A	03/14/2011 17:02	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243201A	03/09/2011 17:52	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201A	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201A	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101A	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401A	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-103-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5A-SS-0.0-0.5

LLI Sample # SW 6218900
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:35

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9407 SDG#: DE094-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	210	U	210	630	1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200	1
04688	Benzoic acid	65-85-0	210	U	210	630	1
04688	Benzyl alcohol	100-51-6	210	U	210	630	1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210	1
04688	Butylbenzylphthalate	85-68-7	21	U	21	210	1
04688	Di-n-butylphthalate	84-74-2	21	U	21	210	1
04688	Carbazole	86-74-8	21	U	21	210	1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210	1
04688	4-Chloroaniline	106-47-8	84	U	84	210	1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210	1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210	1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210	1
04688	2-Chlorophenol	95-57-8	21	U	21	210	1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210	1
04688	Chrysene	218-01-9	30	J	21	210	1
04688	Dibenzofuran	132-64-9	21	U	21	210	1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210	1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210	1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210	1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	420	1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210	1
04688	Diethylphthalate	84-66-2	21	U	21	210	1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210	1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210	1
04688	Dimethylphthalate	131-11-3	21	U	21	210	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	630	1
04688	2,4-Dinitrophenol	51-28-5	420	U	420	1,300	1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210	1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210	1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210	1
04688	Fluoranthene	206-44-0	47	J	21	210	1
04688	Hexachlorobenzene	118-74-1	21	U	21	210	1
04688	Hexachlorobutadiene	87-68-3	84	U	84	210	1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	630	1
04688	Hexachloroethane	67-72-1	21	U	21	210	1
04688	Isophorone	78-59-1	21	U	21	210	1
04688	2-Methylphenol	95-48-7	42	U	42	210	1
04688	4-Methylphenol	106-44-5	42	U	42	210	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	21	U	21	210	1
04688	3-Nitroaniline	99-09-2	42	U	42	210	1
04688	4-Nitroaniline	100-01-6	84	U	84	210	1
04688	Nitrobenzene	98-95-3	21	U	21	210	1
04688	2-Nitrophenol	88-75-5	21	U	21	210	1
04688	4-Nitrophenol	100-02-7	210	U	210	630	1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-103-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5A-SS-0.0-0.5

LLI Sample # SW 6218900
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:35

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9407 SDG#: DE094-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	21	U	21	210	1
04688	Pentachlorophenol	87-86-5	210	U	210	630	1
04688	Phenanthrene	85-01-8	30	J	21	210	1
04688	Phenol	108-95-2	21	U	21	210	1
04688	Pyrene	129-00-0	39	J	21	210	1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210	1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210	1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.2	U	4.2	10	5
10138	Acenaphthylene	208-96-8	2.1	U	2.1	10	5
10138	Anthracene	120-12-7	2.1	U	2.1	10	5
10138	Benzo(a)anthracene	56-55-3	4.8	J	4.2	10	5
10138	Benzo(a)pyrene	50-32-8	5.8	J	4.2	10	5
10138	Benzo(b)fluoranthene	205-99-2	17		4.2	10	5
10138	Benzo(g,h,i)perylene	191-24-2	4.2	U	4.2	10	5
10138	Benzo(k)fluoranthene	207-08-9	4.9	J	4.2	10	5
10138	Dibenz(a,h)anthracene	53-70-3	4.2	U	4.2	10	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	48	J	37	110	5
10138	Fluorene	86-73-7	4.2	U	4.2	10	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.2	U	4.2	10	5
10138	1-Methylnaphthalene	90-12-0	4.2	U	4.2	10	5
10138	2-Methylnaphthalene	91-57-6	4.2	U	4.2	10	5
10138	Naphthalene	91-20-3	4.2	U	4.2	10	5
10138	N-Nitrosodimethylamine	62-75-9	4.2	U	4.2	10	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.6	1
10401	Dalapon	75-99-0	5.6	U	5.6	11	1
10401	2,4-DB	94-82-6	3.7	U	3.7	3.7	1
10401	Dicamba	1918-00-9	0.51	U	0.51	1.5	1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.0	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	U	1.0	2.2	1
10401	MCPA	94-74-6	200	J	96	320	1
10401	MCPP (Mecoprop)	93-65-2	200	J	95	320	1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.22	1
10401	2,4,5-TP	93-72-1	0.095	U	0.095	0.22	1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-103-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5A-SS-0.0-0.5

LLI Sample # SW 6218900
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:35

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9407 SDG#: DE094-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.084	U	0.084	0.21	1
01363	Alpha BHC	319-84-6	0.043	U	0.043	0.21	1
01363	Beta BHC	319-85-7	0.076	U	0.076	0.21	1
01363	Gamma BHC - Lindane	58-89-9	0.043	U	0.043	0.21	1
01363	Chlordane	57-74-9	1.0	U	1.0	4.3	1
01363	p,p-DDD	72-54-8	0.084	U	0.084	0.43	1
01363	p,p-DDE	72-55-9	0.15	U	0.15	0.43	1
01363	p,p-DDT	50-29-3	2.2		0.084	0.43	1
01363	Delta BHC	319-86-8	0.046	U	0.046	0.21	1
01363	Dieldrin	60-57-1	0.084	U	0.084	0.43	1
01363	Endosulfan I	959-98-8	0.056	U	0.056	0.21	1
01363	Endosulfan II	33213-65-9	0.11	U	0.11	0.43	1
01363	Endosulfan Sulfate	1031-07-8	0.084	U	0.084	0.43	1
01363	Endrin	72-20-8	0.084	U	0.084	0.43	1
01363	Endrin Aldehyde	7421-93-4	0.084	U	0.084	0.43	1
01363	Endrin Ketone	53494-70-5	0.084	U	0.084	0.43	1
01363	Heptachlor	76-44-8	0.076	U	0.076	0.21	1
01363	Heptachlor Epoxide	1024-57-3	0.043	U	0.043	0.21	1
01363	Methoxychlor	72-43-5	0.43	U	0.43	2.1	1
01363	Mirex	2385-85-5	0.084	U	0.084	0.43	1
01363	Toxaphene	8001-35-2	2.8	U	2.8	8.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: p,p-DDE and endosulfan II.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.2	1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.2	1
10225	Aroclor 5460	11126-42-4	4.3		1.3	4.2	1
10225	PCB-1016	12674-11-2	0.42	U	0.42	2.2	1
10225	PCB-1221	11104-28-2	0.42	U	0.42	2.2	1
10225	PCB-1232	11141-16-5	0.42	U	0.42	2.2	1
10225	PCB-1242	53469-21-9	0.42	U	0.42	2.2	1
10225	PCB-1248	12672-29-6	0.71	J	0.42	2.2	1
10225	PCB-1254	11097-69-1	1.8	J	0.42	2.2	1
10225	PCB-1260	11096-82-5	2.1	J	0.49	2.2	1
10225	PCB-1262	37324-23-5	0.42	U	0.42	2.2	1
10225	PCB-1268	11100-14-4	0.42	U	0.42	2.2	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5A-SS-0.0-0.5

LLI Sample # SW 6218900
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:35

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9407 SDG#: DE094-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,400		6.20	24.6	1
07914	Boron	7440-42-8	8.08		1.10	6.16	1
01650	Calcium	7440-70-2	3,280		7.55	24.6	1
01654	Iron	7439-89-6	27,000		5.80	24.6	1
01656	Lithium	7439-93-2	28.7		0.27	2.5	1
01657	Magnesium	7439-95-4	5,640		3.13	12.3	1
06958	Manganese	7439-96-5	394		0.0961	0.616	1
10145	Phosphorus	7723-14-0	412		0.690	12.3	1
01662	Potassium	7440-09-7	3,190		22.2	61.6	1
01667	Sodium	7440-23-5	91.0	J	46.0	123	1
07968	Strontium	7440-24-6	22.8		0.0764	0.616	1
06969	Tin	7440-31-5	3.43	J	1.23	12.3	1
06970	Titanium	7440-32-6	1,530		0.468	1.23	1
10146	Zirconium	7440-67-7	1.05	J	1.03	6.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.260		0.0739	0.246	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.5		0.0986	0.493	2
06126	Barium	7440-39-3	162		0.133	0.493	2
06127	Beryllium	7440-41-7	1.22		0.0197	0.123	2
06128	Cadmium	7440-43-9	0.324		0.0493	0.123	2
06131	Chromium	7440-47-3	39.1		0.148	0.493	2
06132	Cobalt	7440-48-4	9.80		0.0246	0.123	2
06133	Copper	7440-50-8	21.0		0.0813	0.493	2
06135	Lead	7439-92-1	21.1		0.0128	0.246	2
06138	Molybdenum	7439-98-7	0.708		0.0616	0.123	2
06139	Nickel	7440-02-0	23.8		0.123	0.493	2
06141	Selenium	7782-49-2	0.156	J	0.0493	0.493	2
06142	Silver	7440-22-4	0.140		0.0148	0.123	2
06145	Thallium	7440-28-0	0.427		0.0370	0.123	2
06148	Vanadium	7440-62-2	69.8		0.0271	0.123	2
06149	Zinc	7440-66-6	115		0.690	3.70	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0051	J	0.0034	0.118	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	1.0	1.3	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.4	U	11.4	38.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.6		0.25	1.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5A-SS-0.0-0.5

LLI Sample # SW 6218900
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:35

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9407 SDG#: DE094-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	505	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.33	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	21.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 05:15	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 04:10	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 11:52	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 19:00	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 13:04	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-103-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5A-SS-0.0-0.5

LLI Sample # SW 6218900
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:35

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9407 SDG#: DE094-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 06:52	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 13:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 13:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 13:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 13:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 13:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 13:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 13:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 13:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/16/2011 10:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 10:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 13:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 13:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 13:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 13:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 13:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 13:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201A	03/15/2011 15:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201A	03/14/2011 17:26	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243201A	03/09/2011 18:11	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201A	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201A	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101A	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401A	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-104-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5A-SS-0.0-0.5

LLI Sample # SW 6218901
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:52

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9408 SDG#: DE094-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200	1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Chrysene	218-01-9	20	J	20	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Fluoranthene	206-44-0	34	J	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5A-SS-0.0-0.5

LLI Sample # SW 6218901
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:52

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9408 SDG#: DE094-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	20	U	20	200	1
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	Pyrene	129-00-0	28	J	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.0	U	4.0	9.9	5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	9.9	5
10138	Anthracene	120-12-7	2.0	U	2.0	9.9	5
10138	Benzo(a)anthracene	56-55-3	4.0	U	4.0	9.9	5
10138	Benzo(a)pyrene	50-32-8	4.0	U	4.0	9.9	5
10138	Benzo(b)fluoranthene	205-99-2	5.3	J	4.0	9.9	5
10138	Benzo(g,h,i)perylene	191-24-2	4.0	U	4.0	9.9	5
10138	Benzo(k)fluoranthene	207-08-9	4.0	U	4.0	9.9	5
10138	Dibenz(a,h)anthracene	53-70-3	4.0	U	4.0	9.9	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	36	U	36	110	5
10138	Fluorene	86-73-7	4.0	U	4.0	9.9	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.0	U	4.0	9.9	5
10138	1-Methylnaphthalene	90-12-0	4.0	U	4.0	9.9	5
10138	2-Methylnaphthalene	91-57-6	4.0	U	4.0	9.9	5
10138	Naphthalene	91-20-3	4.0	U	4.0	9.9	5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	9.9	5
10138	Phenanthrene	85-01-8	5.9	J	4.0	9.9	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	11		0.74	2.0	1
10401	Dicamba	1918-00-9	0.60	J	0.48	1.4	1
10401	Dinoseb	88-85-7	0.95	U	0.95	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.95	U	0.95	2.0	1
10401	MCPA	94-74-6	720	U	720	720	1
10401	MCPP (Mecoprop)	93-65-2	89	U	89	300	1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20	1
10401	2,4,5-TP	93-72-1	0.089	U	0.089	0.20	1
	Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5A-SS-0.0-0.5

LLI Sample # SW 6218901
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:52

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9408 SDG#: DE094-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	1.8		0.36	0.99	5
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20	1
01363	Chlordane	57-74-9	0.95	U	0.95	4.0	1
01363	p,p-DDD	72-54-8	0.15	U	0.15	0.40	1
01363	p,p-DDE	72-55-9	0.32	U	0.32	0.40	1
01363	p,p-DDT	50-29-3	1.5		0.078	0.40	1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20	1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40	1
01363	Endrin	72-20-8	0.078	U	0.078	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.078	U	0.078	0.40	1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40	1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0	1
01363	Mirex	2385-85-5	0.078	U	0.078	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: p,p-DDE and p,p-DDD.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	29		1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	4.0		0.39	2.0	1
10225	PCB-1260	11096-82-5	2.3		0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,400	5.74	22.8	1
07914	Boron	7440-42-8	7.54	1.02	5.71	1
01650	Calcium	7440-70-2	3,080	7.00	22.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-104-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5A-SS-0.0-0.5

LLI Sample # SW 6218901
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:52

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9408 SDG#: DE094-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	23,000		5.38	22.8	1
01656	Lithium	7439-93-2	28.3		0.25	2.3	1
01657	Magnesium	7439-95-4	4,950		2.90	11.4	1
06958	Manganese	7439-96-5	335		0.0891	0.571	1
10145	Phosphorus	7723-14-0	428		0.640	11.4	1
01662	Potassium	7440-09-7	3,600		20.6	57.1	1
01667	Sodium	7440-23-5	91.9	J	42.6	114	1
07968	Strontium	7440-24-6	20.4		0.0708	0.571	1
06969	Tin	7440-31-5	3.36	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,370		0.434	1.14	1
10146	Zirconium	7440-67-7	1.48	J	0.959	5.71	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.731		0.0685	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.4		0.0914	0.457	2
06126	Barium	7440-39-3	161		0.123	0.457	2
06127	Beryllium	7440-41-7	1.17		0.0183	0.114	2
06128	Cadmium	7440-43-9	0.418		0.0457	0.114	2
06131	Chromium	7440-47-3	35.6		0.137	0.457	2
06132	Cobalt	7440-48-4	11.2		0.0228	0.114	2
06133	Copper	7440-50-8	20.9		0.0754	0.457	2
06135	Lead	7439-92-1	19.8		0.0119	0.228	2
06138	Molybdenum	7439-98-7	0.646		0.0571	0.114	2
06139	Nickel	7440-02-0	25.5		0.114	0.457	2
06141	Selenium	7782-49-2	0.232	J	0.0457	0.457	2
06142	Silver	7440-22-4	0.119		0.0137	0.114	2
06145	Thallium	7440-28-0	0.459		0.0343	0.114	2
06148	Vanadium	7440-62-2	64.9		0.0251	0.114	2
06149	Zinc	7440-66-6	132		0.640	3.43	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	J	0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	514		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5A-SS-0.0-0.5

LLI Sample # SW 6218901
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:52

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9408 SDG#: DE094-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.45	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 05:40	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 04:41	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 12:19	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 19:14	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 19:28	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 13:22	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-104-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5A-SS-0.0-0.5

LLI Sample # SW 6218901
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:52

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9408 SDG#: DE094-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 06:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 14:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 14:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 14:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 14:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 14:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 14:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 14:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 14:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/16/2011 10:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 10:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 14:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 14:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 14:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 14:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 14:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 14:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201A	03/15/2011 15:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201A	03/14/2011 17:50	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243201A	03/09/2011 18:23	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201A	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201A	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101A	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401A	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-191-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5A-SS-0.0-0.5

LLI Sample # SW 6218902
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 14:37

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9409 SDG#: DE094-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	210	U	210	630	1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200	1
04688	Benzo(g,h,i)perylene	191-24-2	260		21	210	1
04688	Benzoic acid	65-85-0	210	U	210	630	1
04688	Benzyl alcohol	100-51-6	210	U	210	630	1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210	1
04688	Butylbenzylphthalate	85-68-7	63	J	21	210	1
04688	Di-n-butylphthalate	84-74-2	110	J	21	210	1
04688	Carbazole	86-74-8	21	U	21	210	1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210	1
04688	4-Chloroaniline	106-47-8	84	U	84	210	1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210	1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210	1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210	1
04688	2-Chlorophenol	95-57-8	21	U	21	210	1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210	1
04688	Dibenzofuran	132-64-9	21	U	21	210	1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210	1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210	1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210	1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	420	1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210	1
04688	Diethylphthalate	84-66-2	21	U	21	210	1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210	1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210	1
04688	Dimethylphthalate	131-11-3	21	U	21	210	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	630	1
04688	2,4-Dinitrophenol	51-28-5	420	U	420	1,300	1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210	1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210	1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	550		21	420	1
04688	Hexachlorobenzene	118-74-1	21	U	21	210	1
04688	Hexachlorobutadiene	87-68-3	84	U	84	210	1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	630	1
04688	Hexachloroethane	67-72-1	21	U	21	210	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	220		21	210	1
04688	Isophorone	78-59-1	21	U	21	210	1
04688	2-Methylphenol	95-48-7	42	U	42	210	1
04688	4-Methylphenol	106-44-5	42	U	42	210	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	21	U	21	210	1
04688	3-Nitroaniline	99-09-2	42	U	42	210	1
04688	4-Nitroaniline	100-01-6	84	U	84	210	1
04688	Nitrobenzene	98-95-3	21	U	21	210	1
04688	2-Nitrophenol	88-75-5	21	U	21	210	1
04688	4-Nitrophenol	100-02-7	210	U	210	630	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-191-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5A-SS-0.0-0.5

LLI Sample # SW 6218902
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 14:37

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9409 SDG#: DE094-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210	1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	210	U	210	630	1
04688	Phenol	108-95-2	21	U	21	210	1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210	1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210	1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 44 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	46		4.2	10	5
10138	Acenaphthylene	208-96-8	4.5	J	2.1	10	5
10138	Anthracene	120-12-7	270		2.1	10	5
10138	Benzo(a)anthracene	56-55-3	1,100		4.2	10	5
10138	Benzo(a)pyrene	50-32-8	660		4.2	10	5
10138	Benzo(b)fluoranthene	205-99-2	1,100		4.2	10	5
10138	Benzo(k)fluoranthene	207-08-9	470		4.2	10	5
10138	Chrysene	218-01-9	980		2.1	10	5
10138	Dibenz(a,h)anthracene	53-70-3	52		4.2	10	5
10138	Fluoranthene	206-44-0	2,900		42	100	50
10138	Fluorene	86-73-7	35		4.2	10	5
10138	1-Methylnaphthalene	90-12-0	9.1	J	4.2	10	5
10138	2-Methylnaphthalene	91-57-6	11		4.2	10	5
10138	Naphthalene	91-20-3	7.5	J	4.2	10	5
10138	N-Nitrosodimethylamine	62-75-9	4.2	U	4.2	10	5
10138	Di-n-octylphthalate	117-84-0	120		38	110	5
10138	Phenanthrene	85-01-8	1,200		4.2	10	5
10138	Pyrene	129-00-0	2,500		42	100	50
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.6	1
10401	Dalapon	75-99-0	5.6	U	5.6	11	1
10401	2,4-DB	94-82-6	10		0.79	2.2	1
10401	Dicamba	1918-00-9	0.51	U	0.51	1.5	1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.0	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	U	1.0	2.2	1
10401	MCPA	94-74-6	140	U	140	320	1
10401	MCPP (Mecoprop)	93-65-2	700		95	320	1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.22	1
10401	2,4,5-TP	93-72-1	0.095	U	0.095	0.22	1
	Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable.						

Sample Description: SL-191-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5A-SS-0.0-0.5

LLI Sample # SW 6218902
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 14:37

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9409 SDG#: DE094-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.7	U	2.7	6.3	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.84	U	0.84	2.1	10
01363	Alpha BHC	319-84-6	0.43	U	0.43	2.1	10
01363	Beta BHC	319-85-7	0.76	U	0.76	2.1	10
01363	Gamma BHC - Lindane	58-89-9	0.43	U	0.43	2.1	10
01363	Chlordane	57-74-9	16	U	16	43	10
01363	p,p-DDD	72-54-8	0.84	U	0.84	4.3	10
01363	p,p-DDE	72-55-9	2.0	U	2.0	4.3	10
01363	p,p-DDT	50-29-3	38	U	38	38	20
01363	Delta BHC	319-86-8	0.46	U	0.46	2.1	10
01363	Dieldrin	60-57-1	9.0	U	9.0	9.0	10
01363	Endosulfan I	959-98-8	0.56	U	0.56	2.1	10
01363	Endosulfan II	33213-65-9	1.6	U	1.6	4.3	10
01363	Endosulfan Sulfate	1031-07-8	0.84	U	0.84	4.3	10
01363	Endrin	72-20-8	0.84	U	0.84	4.3	10
01363	Endrin Aldehyde	7421-93-4	15	U	15	15	10
01363	Endrin Ketone	53494-70-5	0.84	U	0.84	4.3	10
01363	Heptachlor	76-44-8	0.76	U	0.76	2.1	10
01363	Heptachlor Epoxide	1024-57-3	0.65	U	0.65	2.1	10
01363	Methoxychlor	72-43-5	4.3	U	4.3	21	10
01363	Mirex	2385-85-5	1.3	U	1.3	4.3	10
01363	Toxaphene	8001-35-2	28	U	28	84	10

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.3	U	6.3	21	5
10225	Aroclor 5442	12642-23-8	6.3	U	6.3	21	5
10225	Aroclor 5460	11126-42-4	40		6.3	21	5
10225	PCB-1016	12674-11-2	2.1	U	2.1	11	5
10225	PCB-1221	11104-28-2	2.1	U	2.1	11	5
10225	PCB-1232	11141-16-5	2.1	U	2.1	11	5
10225	PCB-1242	53469-21-9	2.1	U	2.1	11	5
10225	PCB-1248	12672-29-6	2.1	U	2.1	11	5
10225	PCB-1254	11097-69-1	2.1	U	2.1	11	5
10225	PCB-1260	11096-82-5	180		2.5	11	5
10225	PCB-1262	37324-23-5	2.1	U	2.1	11	5
10225	PCB-1268	11100-14-4	2.1	U	2.1	11	5

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is

Sample Description: **SL-191-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5A-SS-0.0-0.5

LLI Sample # SW 6218902
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 14:37

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9409 SDG#: DE094-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		6.31	25.1	1
07914	Boron	7440-42-8	11.7		1.12	6.27	1
01650	Calcium	7440-70-2	20,000		7.69	25.1	1
01654	Iron	7439-89-6	27,100		5.91	25.1	1
01656	Lithium	7439-93-2	14.8		0.28	2.5	1
01657	Magnesium	7439-95-4	4,240		3.19	12.5	1
06958	Manganese	7439-96-5	330		0.0979	0.627	1
10145	Phosphorus	7723-14-0	537		0.703	12.5	1
01662	Potassium	7440-09-7	2,840		22.6	62.7	1
01667	Sodium	7440-23-5	281		46.8	125	1
07968	Strontium	7440-24-6	66.9		0.0778	0.627	1
06969	Tin	7440-31-5	4.00	J	1.25	12.5	1
06970	Titanium	7440-32-6	1,070		0.477	1.25	1
10146	Zirconium	7440-67-7	1.40	J	1.05	6.27	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.00		0.0746	0.249	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.45		0.0994	0.497	2
06126	Barium	7440-39-3	139		0.134	0.497	2
06127	Beryllium	7440-41-7	0.422		0.0199	0.124	2
06128	Cadmium	7440-43-9	5.68		0.0497	0.124	2
06131	Chromium	7440-47-3	77.1		0.149	0.497	2
06132	Cobalt	7440-48-4	8.81		0.0249	0.124	2
06133	Copper	7440-50-8	63.2		0.0820	0.497	2
06135	Lead	7439-92-1	100		0.0129	0.249	2
06138	Molybdenum	7439-98-7	2.37		0.0621	0.124	2
06139	Nickel	7440-02-0	80.4		0.124	0.497	2
06141	Selenium	7782-49-2	0.166	J	0.0497	0.497	2
06142	Silver	7440-22-4	2.18		0.0149	0.124	2
06145	Thallium	7440-28-0	0.307		0.0373	0.124	2
06148	Vanadium	7440-62-2	40.8		0.0273	0.124	2
06149	Zinc	7440-66-6	944		6.96	37.3	20
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.233		0.0036	0.125	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	U	1.0	1.3	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.4	U	11.4	38.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.0		0.25	1.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-191-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5A-SS-0.0-0.5

LLI Sample # SW 6218902
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 14:37

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9409 SDG#: DE094-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	489	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.98	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	21.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 06:05	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 09:19	Joseph M Gambler	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 16:29	Joseph M Gambler	50
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 12:46	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110710012A	03/15/2011 14:37	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/22/2011 01:49	Jamie L Brillhart	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/22/2011 02:03	Jamie L Brillhart	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 13:41	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110710012A	03/14/2011 09:25	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-191-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5A-SS-0.0-0.5

LLI Sample # SW 6218902
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 14:37

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9409 SDG#: DE094-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 07:00	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 14:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 14:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 14:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 14:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 14:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 14:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 14:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 14:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/16/2011 10:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 10:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 14:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 14:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 14:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 14:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 14:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/16/2011 10:54	Choon Y Tian	20
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201A	03/15/2011 16:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201A	03/14/2011 18:14	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243201A	03/09/2011 18:36	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201A	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201A	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101A	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401A	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-191-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5A-SS-0.0-0.5

LLI Sample # SW 6218902
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 14:37

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9409 SDG#: DE094-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-194-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5A-SS-0.0-0.3

LLI Sample # SW 6218903
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:02

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9410 SDG#: DE094-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	600	1
04688	Benzyl alcohol	100-51-6	200	U	200	600	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200	1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200	1
04688	Carbazole	86-74-8	31	J	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	80	U	80	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Dibenzofuran	132-64-9	110	J	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	80	U	80	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	600	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-194-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5A-SS-0.0-0.3

LLI Sample # SW 6218903
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:02

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9410 SDG#: DE094-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	600	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.7	J	4.0	9.9	5
10138	Acenaphthylene	208-96-8	9.1	J	2.0	9.9	5
10138	Anthracene	120-12-7	45		2.0	9.9	5
10138	Benzo(a)anthracene	56-55-3	240		4.0	9.9	5
10138	Benzo(a)pyrene	50-32-8	210		4.0	9.9	5
10138	Benzo(b)fluoranthene	205-99-2	250		4.0	9.9	5
10138	Benzo(g,h,i)perylene	191-24-2	85		4.0	9.9	5
10138	Benzo(k)fluoranthene	207-08-9	47		4.0	9.9	5
10138	Chrysene	218-01-9	460		2.0	9.9	5
10138	Dibenz(a,h)anthracene	53-70-3	56		4.0	9.9	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	660		36	110	5
10138	Fluoranthene	206-44-0	160		4.0	9.9	5
10138	Fluorene	86-73-7	8.3	J	4.0	9.9	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	38		4.0	9.9	5
10138	1-Methylnaphthalene	90-12-0	260		4.0	9.9	5
10138	2-Methylnaphthalene	91-57-6	310		4.0	9.9	5
10138	Naphthalene	91-20-3	160		4.0	9.9	5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	9.9	5
10138	Di-n-octylphthalate	117-84-0	870		36	110	5
10138	Phenanthrene	85-01-8	660		4.0	9.9	5
10138	Pyrene	129-00-0	230		4.0	9.9	5
	Reporting limits were raised due to interference from the sample matrix.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.3	U	5.3	11	1
10401	2,4-DB	94-82-6	38		3.7	10	5
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4	1
10401	Dinoseb	88-85-7	0.96	U	0.96	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.96	U	0.96	2.0	1
10401	MCPA	94-74-6	1,500		91	300	1
10401	MCPP (Mecoprop)	93-65-2	180	J	90	300	1
10401	2,4,5-T	93-76-5	1.0		0.098	0.20	1
10401	2,4,5-TP	93-72-1	0.83		0.090	0.20	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-194-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5A-SS-0.0-0.3

LLI Sample # SW 6218903
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:02

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9410 SDG#: DE094-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and 2,4,5-TP.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.39	U	0.39	0.99	5
01363	Alpha BHC	319-84-6	0.20	U	0.20	0.99	5
01363	Beta BHC	319-85-7	1.1		0.36	0.99	5
01363	Gamma BHC - Lindane	58-89-9	0.59	U	0.59	0.99	5
01363	Chlordane	57-74-9	4.8	U	4.8	20	5
01363	p,p-DDD	72-54-8	9.4	U	9.4	9.4	5
01363	p,p-DDE	72-55-9	0.39	U	0.39	2.0	5
01363	p,p-DDT	50-29-3	2.7	U	2.7	2.7	5
01363	Delta BHC	319-86-8	0.22	U	0.22	0.99	5
01363	Dieldrin	60-57-1	0.39	U	0.39	2.0	5
01363	Endosulfan I	959-98-8	0.26	U	0.26	0.99	5
01363	Endosulfan II	33213-65-9	2.4	U	2.4	2.4	5
01363	Endosulfan Sulfate	1031-07-8	1.7	U	1.7	2.0	5
01363	Endrin	72-20-8	0.39	U	0.39	2.0	5
01363	Endrin Aldehyde	7421-93-4	3.8	U	3.8	3.8	5
01363	Endrin Ketone	53494-70-5	0.39	U	0.39	2.0	5
01363	Heptachlor	76-44-8	0.36	U	0.36	0.99	5
01363	Heptachlor Epoxide	1024-57-3	0.20	U	0.20	0.99	5
01363	Methoxychlor	72-43-5	2.0	U	2.0	9.9	5
01363	Mirex	2385-85-5	5.5	U	5.5	5.5	5
01363	Toxaphene	8001-35-2	13	U	13	39	5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly. Due to interfering peaks on the chromatogram, the values reported for gamma-BHC represent the lowest reporting limits attainable. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	7.0		1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	2.4		0.39	2.0	1
10225	PCB-1254	11097-69-1	4.8		0.39	2.0	1
10225	PCB-1260	11096-82-5	5.9		0.47	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-194-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5A-SS-0.0-0.3

LLI Sample # SW 6218903
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:02

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9410 SDG#: DE094-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,900		5.89	23.4	1
07914	Boron	7440-42-8	11.9		1.04	5.86	1
01650	Calcium	7440-70-2	4,650		7.18	23.4	1
01654	Iron	7439-89-6	22,300		5.52	23.4	1
01656	Lithium	7439-93-2	15.1		0.26	2.3	1
01657	Magnesium	7439-95-4	4,970		2.98	11.7	1
06958	Manganese	7439-96-5	249		0.0914	0.586	1
10145	Phosphorus	7723-14-0	627		0.656	11.7	1
01662	Potassium	7440-09-7	3,070		21.1	58.6	1
01667	Sodium	7440-23-5	158		43.7	117	1
07968	Strontium	7440-24-6	26.6		0.0726	0.586	1
06969	Tin	7440-31-5	2.64	J	1.17	11.7	1
06970	Titanium	7440-32-6	819		0.445	1.17	1
10146	Zirconium	7440-67-7	0.984	U	0.984	5.86	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.452		0.0689	0.230	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.49		0.0919	0.460	2
06126	Barium	7440-39-3	93.2		0.124	0.460	2
06127	Beryllium	7440-41-7	0.644		0.0184	0.115	2
06128	Cadmium	7440-43-9	0.773		0.0460	0.115	2
06131	Chromium	7440-47-3	35.7		0.138	0.460	2
06132	Cobalt	7440-48-4	8.63		0.0230	0.115	2
06133	Copper	7440-50-8	29.3		0.0758	0.460	2
06135	Lead	7439-92-1	56.0		0.0119	0.230	2
06138	Molybdenum	7439-98-7	1.85		0.0574	0.115	2
06139	Nickel	7440-02-0	39.8		0.115	0.460	2
06141	Selenium	7782-49-2	0.494		0.0460	0.460	2
06142	Silver	7440-22-4	0.257		0.0138	0.115	2
06145	Thallium	7440-28-0	0.221		0.0345	0.115	2
06148	Vanadium	7440-62-2	52.7		0.0253	0.115	2
06149	Zinc	7440-66-6	580		6.43	34.5	20
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0167	J	0.0033	0.114	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.96	U	0.96	1.2	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-194-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5A-SS-0.0-0.3

LLI Sample # SW 6218903
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:02

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9410 SDG#: DE094-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	387		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.28		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.3		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 06:30	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 09:49	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 13:14	John W Perkins	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/19/2011 15:37	John W Perkins	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/22/2011 02:17	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 14:55	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-194-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5A-SS-0.0-0.3

LLI Sample # SW 6218903
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:02

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9410 SDG#: DE094-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 07:04	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/16/2011 10:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 14:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 14:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 14:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 14:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 14:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 14:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 14:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/16/2011 10:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 10:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 14:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 14:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 14:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 14:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 14:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/16/2011 11:23	Choon Y Tian	20
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201A	03/15/2011 16:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201A	03/14/2011 18:38	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243201A	03/09/2011 18:54	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201A	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201A	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101B	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401B	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-195-SA5A-SS-0.0-0.2 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5A-SS-0.0-0.2

LLI Sample # SW 6218904
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:20

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9411 SDG#: DE094-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	230	U	230	700	1
04688	Benzidine	92-87-5	1,600	U	1,600	4,700	1
04688	Benzoic acid	65-85-0	230	U	230	700	1
04688	Benzyl alcohol	100-51-6	230	U	230	700	1
04688	4-Bromophenyl-phenylether	101-55-3	23	U	23	230	1
04688	Butylbenzylphthalate	85-68-7	23	U	23	230	1
04688	Di-n-butylphthalate	84-74-2	23	U	23	230	1
04688	Carbazole	86-74-8	23	U	23	230	1
04688	4-Chloro-3-methylphenol	59-50-7	47	U	47	230	1
04688	4-Chloroaniline	106-47-8	93	U	93	230	1
04688	bis(2-Chloroethoxy)methane	111-91-1	23	U	23	230	1
04688	bis(2-Chloroethyl)ether	111-44-4	23	U	23	230	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	23	U	23	230	1
04688	2-Chloronaphthalene	91-58-7	23	U	23	230	1
04688	2-Chlorophenol	95-57-8	23	U	23	230	1
04688	4-Chlorophenyl-phenylether	7005-72-3	47	U	47	230	1
04688	Dibenzofuran	132-64-9	31	J	23	230	1
04688	1,2-Dichlorobenzene	95-50-1	23	U	23	230	1
04688	1,3-Dichlorobenzene	541-73-1	23	U	23	230	1
04688	1,4-Dichlorobenzene	106-46-7	23	U	23	230	1
04688	3,3'-Dichlorobenzidine	91-94-1	140	U	140	470	1
04688	2,4-Dichlorophenol	120-83-2	23	U	23	230	1
04688	Diethylphthalate	84-66-2	23	U	23	230	1
04688	2,4-Dimethylphenol	105-67-9	47	U	47	230	1
04688	3,5-Dimethylphenol	108-68-9	47	U	47	230	1
04688	Dimethylphthalate	131-11-3	23	U	23	230	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	230	U	230	700	1
04688	2,4-Dinitrophenol	51-28-5	470	U	470	1,400	1
04688	2,4-Dinitrotoluene	121-14-2	47	U	47	230	1
04688	2,6-Dinitrotoluene	606-20-2	23	U	23	230	1
04688	1,2-Diphenylhydrazine	122-66-7	23	U	23	230	1
04688	Fluoranthene	206-44-0	38	J	23	230	1
04688	Hexachlorobenzene	118-74-1	23	U	23	230	1
04688	Hexachlorobutadiene	87-68-3	93	U	93	230	1
04688	Hexachlorocyclopentadiene	77-47-4	230	U	230	700	1
04688	Hexachloroethane	67-72-1	23	U	23	230	1
04688	Isophorone	78-59-1	23	U	23	230	1
04688	2-Methylphenol	95-48-7	47	U	47	230	1
04688	4-Methylphenol	106-44-5	47	U	47	230	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	23	U	23	230	1
04688	3-Nitroaniline	99-09-2	47	U	47	230	1
04688	4-Nitroaniline	100-01-6	93	U	93	230	1
04688	Nitrobenzene	98-95-3	23	U	23	230	1
04688	2-Nitrophenol	88-75-5	23	U	23	230	1
04688	4-Nitrophenol	100-02-7	230	U	230	700	1
04688	N-Nitroso-di-n-propylamine	621-64-7	23	U	23	230	1
04688	N-Nitrosodiphenylamine	86-30-6	23	U	23	230	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-195-SA5A-SS-0.0-0.2 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5A-SS-0.0-0.2

LLI Sample # SW 6218904
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:20

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9411 SDG#: DE094-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	230		23	230	1
04688	Pentachlorophenol	87-86-5	230	U	230	700	1
04688	Phenanthrene	85-01-8	100	J	23	230	1
04688	Phenol	108-95-2	23	U	23	230	1
04688	1,2,4-Trichlorobenzene	120-82-1	23	U	23	230	1
04688	2,4,5-Trichlorophenol	95-95-4	47	U	47	230	1
04688	2,4,6-Trichlorophenol	88-06-2	47	U	47	230	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	9.2	U	9.2	23	5
10138	Acenaphthylene	208-96-8	4.6	U	4.6	23	5
10138	Anthracene	120-12-7	9.6	J	4.6	23	5
10138	Benzo(a)anthracene	56-55-3	77		9.2	23	5
10138	Benzo(a)pyrene	50-32-8	85		9.2	23	5
10138	Benzo(b)fluoranthene	205-99-2	240		9.2	23	5
10138	Benzo(g,h,i)perylene	191-24-2	70		9.2	23	5
10138	Benzo(k)fluoranthene	207-08-9	14	J	9.2	23	5
10138	Chrysene	218-01-9	210		4.6	23	5
10138	Dibenz(a,h)anthracene	53-70-3	39		9.2	23	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	100	J	83	250	5
10138	Fluorene	86-73-7	9.2	U	9.2	23	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	28		9.2	23	5
10138	1-Methylnaphthalene	90-12-0	60		9.2	23	5
10138	2-Methylnaphthalene	91-57-6	75		9.2	23	5
10138	Naphthalene	91-20-3	42		9.2	23	5
10138	N-Nitrosodimethylamine	62-75-9	9.2	U	9.2	23	5
10138	Pyrene	129-00-0	71		9.2	23	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.7	U	1.7	5.0	1
10401	Dalapon	75-99-0	6.2	U	6.2	13	1
10401	2,4-DB	94-82-6	38		4.3	12	5
10401	Dicamba	1918-00-9	0.60	J	0.56	1.7	1
10401	Dinoseb	88-85-7	1.1	U	1.1	3.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.1	U	1.1	2.4	1
10401	MCPA	94-74-6	940	U	940	940	1
10401	MCPP (Mecoprop)	93-65-2	800	U	800	800	1
10401	2,4,5-T	93-76-5	1.0	U	1.0	1.0	1
10401	2,4,5-TP	93-72-1	0.10	U	0.10	0.24	1
	Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following						

Sample Description: SL-195-SA5A-SS-0.0-0.2 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5A-SS-0.0-0.2

LLI Sample # SW 6218904
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:20

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9411 SDG#: DE094-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	compounds were affected: MCPP and 2,4,5-TP.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.092	U	0.092	0.23	1
01363	Alpha BHC	319-84-6	0.048	U	0.048	0.23	1
01363	Beta BHC	319-85-7	0.084	U	0.084	0.23	1
01363	Gamma BHC - Lindane	58-89-9	0.056	U	0.056	0.23	1
01363	Chlordane	57-74-9	3.4	U	3.4	4.8	1
01363	p,p-DDD	72-54-8	1.7	U	1.7	1.7	1
01363	p,p-DDE	72-55-9	0.31	J	0.092	0.48	1
01363	p,p-DDT	50-29-3	1.2	U	1.2	1.2	1
01363	Delta BHC	319-86-8	0.050	U	0.050	0.23	1
01363	Dieldrin	60-57-1	0.092	U	0.092	0.48	1
01363	Endosulfan I	959-98-8	0.062	U	0.062	0.23	1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.48	1
01363	Endosulfan Sulfate	1031-07-8	0.092	U	0.092	0.48	1
01363	Endrin	72-20-8	0.092	U	0.092	0.48	1
01363	Endrin Aldehyde	7421-93-4	0.99	U	0.99	0.99	1
01363	Endrin Ketone	53494-70-5	0.92	U	0.92	0.92	1
01363	Heptachlor	76-44-8	0.084	U	0.084	0.23	1
01363	Heptachlor Epoxide	1024-57-3	0.048	U	0.048	0.23	1
01363	Methoxychlor	72-43-5	0.48	U	0.48	2.3	1
01363	Mirex	2385-85-5	0.78	U	0.78	0.78	1
01363	Toxaphene	8001-35-2	3.1	U	3.1	9.2	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported for gamma-BHC represent the lowest reporting limits attainable.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.4	U	1.4	4.6	1
10225	Aroclor 5442	12642-23-8	1.4	U	1.4	4.6	1
10225	Aroclor 5460	11126-42-4	1.4	U	1.4	4.6	1
10225	PCB-1016	12674-11-2	0.46	U	0.46	2.4	1
10225	PCB-1221	11104-28-2	0.46	U	0.46	2.4	1
10225	PCB-1232	11141-16-5	0.46	U	0.46	2.4	1
10225	PCB-1242	53469-21-9	0.46	U	0.46	2.4	1
10225	PCB-1248	12672-29-6	0.94	J	0.46	2.4	1
10225	PCB-1254	11097-69-1	3.3		0.46	2.4	1
10225	PCB-1260	11096-82-5	5.1		0.55	2.4	1
10225	PCB-1262	37324-23-5	0.46	U	0.46	2.4	1
10225	PCB-1268	11100-14-4	0.46	U	0.46	2.4	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5A-SS-0.0-0.2 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5A-SS-0.0-0.2

LLI Sample # SW 6218904
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:20

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9411 SDG#: DE094-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,000		7.04	28.0	1
07914	Boron	7440-42-8	15.7		1.25	7.00	1
01650	Calcium	7440-70-2	5,070		8.59	28.0	1
01654	Iron	7439-89-6	33,300		6.60	28.0	1
01656	Lithium	7439-93-2	23.8		0.31	2.8	1
01657	Magnesium	7439-95-4	6,710		3.56	14.0	1
06958	Manganese	7439-96-5	453		0.109	0.700	1
10145	Phosphorus	7723-14-0	835		0.784	14.0	1
01662	Potassium	7440-09-7	4,840		25.2	70.0	1
01667	Sodium	7440-23-5	198		52.2	140	1
07968	Strontium	7440-24-6	45.1		0.0868	0.700	1
06969	Tin	7440-31-5	3.56	J	1.40	14.0	1
06970	Titanium	7440-32-6	1,620		0.532	1.40	1
10146	Zirconium	7440-67-7	1.80	J	1.18	7.00	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.283		0.0824	0.275	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.32		0.110	0.549	2
06126	Barium	7440-39-3	150		0.148	0.549	2
06127	Beryllium	7440-41-7	1.06		0.0220	0.137	2
06128	Cadmium	7440-43-9	0.770		0.0549	0.137	2
06131	Chromium	7440-47-3	34.4		0.165	0.549	2
06132	Cobalt	7440-48-4	12.1		0.0275	0.137	2
06133	Copper	7440-50-8	20.1		0.0906	0.549	2
06135	Lead	7439-92-1	17.3		0.0143	0.275	2
06138	Molybdenum	7439-98-7	0.934		0.0687	0.137	2
06139	Nickel	7440-02-0	25.9		0.137	0.549	2
06141	Selenium	7782-49-2	0.332	J	0.0549	0.549	2
06142	Silver	7440-22-4	0.124	J	0.0165	0.137	2
06145	Thallium	7440-28-0	0.439		0.0412	0.137	2
06148	Vanadium	7440-62-2	70.2		0.0302	0.137	2
06149	Zinc	7440-66-6	176		0.769	4.12	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0106	J	0.0038	0.132	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		1.1	1.4	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	12.6	U	12.6	42.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5A-SS-0.0-0.2 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5A-SS-0.0-0.2

LLI Sample # SW 6218904
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:20

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9411 SDG#: DE094-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57	J	0.28	1.4	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	450		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.88		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	28.6		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 06:55	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 10:20	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 13:41	John W Perkins	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/19/2011 16:04	John W Perkins	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/22/2011 02:32	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 15:14	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-195-SA5A-SS-0.0-0.2 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5A-SS-0.0-0.2

LLI Sample # SW 6218904
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:20

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9411 SDG#: DE094-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 07:08	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 14:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 14:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 14:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 14:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 14:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 14:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 14:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 14:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 14:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 11:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 14:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 14:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 14:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 14:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 14:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 14:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201B	03/15/2011 17:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201B	03/15/2011 12:00	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243201A	03/09/2011 19:01	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201B	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201B	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101B	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401B	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-256-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218905
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-256-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218905
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	J	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	1.3	J	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.80	J	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.89	J	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.86	J	0.75	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	92	U	92	280	1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1
	Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-256-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218905
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	11	U	11	11	1
01363	p,p-DDD	72-54-8	1.3		0.075	0.38	1
01363	p,p-DDE	72-55-9	0.075	U	0.075	0.38	1
01363	p,p-DDT	50-29-3	1.3		0.075	0.38	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	4.2		0.37	1.9	5
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.38	1
01363	Endrin	72-20-8	0.075	U	0.075	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.38	1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.38	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.34	J	0.075	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported for technical chlordane represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.63	22.4	1
07914	Boron	7440-42-8	4.46	J	0.996	5.59	1
01650	Calcium	7440-70-2	4,390		6.86	22.4	1
01654	Iron	7439-89-6	16,700		5.27	22.4	1
01656	Lithium	7439-93-2	18.5		0.25	2.2	1
01657	Magnesium	7439-95-4	3,990		2.84	11.2	1
06958	Manganese	7439-96-5	246		0.0873	0.559	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-256-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218905
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	352		0.627	11.2	1
01662	Potassium	7440-09-7	2,040		20.1	55.9	1
01667	Sodium	7440-23-5	87.9	J	41.7	112	1
07968	Strontium	7440-24-6	17.7		0.0694	0.559	1
06969	Tin	7440-31-5	2.62	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,080		0.425	1.12	1
10146	Zirconium	7440-67-7	1.37	J	0.940	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.161	J	0.0671	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.69		0.0895	0.448	2
06126	Barium	7440-39-3	83.8		0.121	0.448	2
06127	Beryllium	7440-41-7	0.606		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.388		0.0448	0.112	2
06131	Chromium	7440-47-3	21.3		0.134	0.448	2
06132	Cobalt	7440-48-4	6.10		0.0224	0.112	2
06133	Copper	7440-50-8	6.93		0.0738	0.448	2
06135	Lead	7439-92-1	5.42		0.0116	0.224	2
06138	Molybdenum	7439-98-7	0.372		0.0559	0.112	2
06139	Nickel	7440-02-0	11.3		0.112	0.448	2
06141	Selenium	7782-49-2	0.144	J	0.0448	0.448	2
06142	Silver	7440-22-4	0.0242	J	0.0134	0.112	2
06145	Thallium	7440-28-0	0.232		0.0336	0.112	2
06148	Vanadium	7440-62-2	42.1		0.0246	0.112	2
06149	Zinc	7440-66-6	157		0.627	3.36	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0133	J	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	437		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-256-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218905
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E9412 SDG#: DE094-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.05	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 01:30	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/16/2011 23:32	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 03:21	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 20:52	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/22/2011 02:46	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 15:32	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-256-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218905
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

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E9412 SDG#: DE094-12BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 05:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 13:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 13:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 13:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 13:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 13:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 13:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 13:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 13:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 13:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 10:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 13:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 13:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 13:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 13:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 13:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 13:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201B	03/15/2011 16:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201B	03/14/2011 19:02	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243201A	03/09/2011 19:19	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201B	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201B	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101B	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401B	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-256-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218906
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800	19	190	1
04688	Acenaphthylene	208-96-8	1,800	19	190	1
04688	Aniline	62-53-3	2,100	190	560	1
04688	Anthracene	120-12-7	1,800	19	190	1
04688	Benzidine	92-87-5	5,500	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,800	19	190	1
04688	Benzo(a)pyrene	50-32-8	1,600	19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,600	19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,700	19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,600	19	190	1
04688	Benzoic acid	65-85-0	1,700	190	560	1
04688	Benzyl alcohol	100-51-6	1,800	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	19	190	1
04688	Butylbenzylphthalate	85-68-7	1,800	19	190	1
04688	Di-n-butylphthalate	84-74-2	1,700	19	190	1
04688	Carbazole	86-74-8	1,700	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800	38	190	1
04688	4-Chloroaniline	106-47-8	1,600	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,900	19	190	1
04688	2-Chloronaphthalene	91-58-7	1,700	19	190	1
04688	2-Chlorophenol	95-57-8	1,800	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	38	190	1
04688	Chrysene	218-01-9	1,800	19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600	19	190	1
04688	Dibenzofuran	132-64-9	1,800	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,800	110	380	1
04688	2,4-Dichlorophenol	120-83-2	1,900	19	190	1
04688	Diethylphthalate	84-66-2	1,800	19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800	38	190	1
04688	3,5-Dimethylphenol	108-68-9	1,900	38	190	1
04688	Dimethylphthalate	131-11-3	1,800	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	190	560	1
04688	2,4-Dinitrophenol	51-28-5	2,900	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,800	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	19	380	1
04688	Fluoranthene	206-44-0	1,800	19	190	1
04688	Fluorene	86-73-7	1,800	19	190	1
04688	Hexachlorobenzene	118-74-1	1,800	19	190	1
04688	Hexachlorobutadiene	87-68-3	1,800	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	2,500	190	560	1
04688	Hexachloroethane	67-72-1	1,400	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	19	190	1
04688	Isophorone	78-59-1	1,800	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-256-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218906
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,900	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190	1
04688	2-Methylphenol	95-48-7	1,800	38	190	1
04688	4-Methylphenol	106-44-5	1,700	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	19	190	1
04688	2-Nitroaniline	88-74-4	1,800	19	190	1
04688	3-Nitroaniline	99-09-2	1,700	38	190	1
04688	4-Nitroaniline	100-01-6	1,500	75	190	1
04688	Nitrobenzene	98-95-3	1,700	19	190	1
04688	2-Nitrophenol	88-75-5	1,900	19	190	1
04688	4-Nitrophenol	100-02-7	1,500	190	560	1
04688	N-Nitrosodimethylamine	62-75-9	1,500	38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,600	19	190	1
04688	Pentachlorophenol	87-86-5	1,500	190	560	1
04688	Phenanthrene	85-01-8	1,700	19	190	1
04688	Phenol	108-95-2	1,700	19	190	1
04688	Pyrene	129-00-0	1,800	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	38	190	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 44 ug/kg. The blank value was not subtracted from the analytical result.					
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	38	0.75	1.9	1
10138	Acenaphthylene	208-96-8	36	0.37	1.9	1
10138	Anthracene	120-12-7	36	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	38	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	39	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	49	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	27	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	38	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	43	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	42	6.7	20	1
10138	Chrysene	218-01-9	38	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	27	0.75	1.9	1
10138	Diethylphthalate	84-66-2	36	6.7	20	1
10138	Dimethylphthalate	131-11-3	39	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51	6.7	20	1
10138	Fluoranthene	206-44-0	39	0.75	1.9	1
10138	Fluorene	86-73-7	36	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-256-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218906
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	28		0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	36		0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	32		0.75	1.9	1
10138	Naphthalene	91-20-3	35		0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	33		0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	48		6.7	20	1
10138	Phenanthrene	85-01-8	36		0.75	1.9	1
10138	Pyrene	129-00-0	35		0.75	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.0		1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	9.7		0.70	1.9	1
10401	Dicamba	1918-00-9	0.76	J	0.45	1.4	1
10401	Dinoseb	88-85-7	2.2	J	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	8.2		0.90	1.9	1
10401	MCPA	94-74-6	680		86	280	1
10401	MCPP (Mecoprop)	93-65-2	590		85	280	1
10401	2,4,5-T	93-76-5	0.50		0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.61		0.085	0.19	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.25		0.075	0.19	1
01363	Alpha BHC	319-84-6	0.34		0.038	0.19	1
01363	Beta BHC	319-85-7	0.28		0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.36		0.038	0.19	1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8	1
01363	p,p-DDD	72-54-8	1.1		0.075	0.38	1
01363	p,p-DDE	72-55-9	0.62		0.075	0.38	1
01363	p,p-DDT	50-29-3	1.8		0.075	0.38	1
01363	Delta BHC	319-86-8	0.31		0.041	0.19	1
01363	Dieldrin	60-57-1	5.6		0.075	0.38	1
01363	Endosulfan I	959-98-8	0.34		0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.43		0.075	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.93		0.075	0.38	1
01363	Endrin	72-20-8	0.075	U	0.075	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.46		0.075	0.38	1
01363	Endrin Ketone	53494-70-5	0.80		0.075	0.38	1
01363	Heptachlor	76-44-8	0.43		0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.27		0.038	0.19	1
01363	Methoxychlor	72-43-5	5.6		0.38	1.9	1
01363	Mirex	2385-85-5	0.075	U	0.075	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-256-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218906
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.8	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	19		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	18		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.57	22.2	1
07914	Boron	7440-42-8	227		0.986	5.54	1
01650	Calcium	7440-70-2	3,930		6.79	22.2	1
01654	Iron	7439-89-6	17,800		5.22	22.2	1
01656	Lithium	7439-93-2	135		0.24	2.2	1
01657	Magnesium	7439-95-4	4,660		2.81	11.1	1
06958	Manganese	7439-96-5	304		0.0864	0.554	1
10145	Phosphorus	7723-14-0	422		0.620	11.1	1
01662	Potassium	7440-09-7	3,400		19.9	55.4	1
01667	Sodium	7440-23-5	1,200		41.3	111	1
07968	Strontium	7440-24-6	130		0.0687	0.554	1
06969	Tin	7440-31-5	412		1.11	11.1	1
06970	Titanium	7440-32-6	1,420		0.421	1.11	1
10146	Zirconium	7440-67-7	111		0.931	5.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	2.84		0.0665	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.70		0.0886	0.443	2
06126	Barium	7440-39-3	93.4		0.120	0.443	2
06127	Beryllium	7440-41-7	1.81		0.0177	0.111	2
06128	Cadmium	7440-43-9	2.00		0.0443	0.111	2
06131	Chromium	7440-47-3	34.8		0.133	0.443	2
06132	Cobalt	7440-48-4	77.6		0.0222	0.111	2
06133	Copper	7440-50-8	21.1		0.0731	0.443	2
06135	Lead	7439-92-1	10.4		0.0115	0.222	2
06138	Molybdenum	7439-98-7	11.5		0.0554	0.111	2
06139	Nickel	7440-02-0	25.8		0.111	0.443	2
06141	Selenium	7782-49-2	2.63		0.0443	0.443	2
06142	Silver	7440-22-4	16.0		0.0133	0.111	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-256-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218906
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.842	0.0332	0.111	2
06148	Vanadium	7440-62-2	55.0	0.0244	0.111	2
06149	Zinc	7440-66-6	147	0.620	3.32	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.196	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.2	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	614	10.2	33.9	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	40.0	1.1	5.6	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 01:55	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 00:03	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 03:49	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 21:05	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 15:51	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-256-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218906
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

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E9412 SDG#: DE094-12MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 06:08	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 13:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 13:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 13:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 13:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 13:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 13:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 13:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 13:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 13:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 10:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 13:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 13:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 13:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 13:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 13:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 13:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201B	03/15/2011 16:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201B	03/14/2011 19:50	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243201A	03/09/2011 19:32	Carrie E Miller	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201B	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201B	03/11/2011 12:50	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-256-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218907
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700	19	190	1
04688	Acenaphthylene	208-96-8	1,800	19	190	1
04688	Aniline	62-53-3	2,100	190	560	1
04688	Anthracene	120-12-7	1,800	19	190	1
04688	Benzidine	92-87-5	5,800	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,800	19	190	1
04688	Benzo(a)pyrene	50-32-8	1,600	19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,600	19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,700	19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,600	19	190	1
04688	Benzoic acid	65-85-0	1,800	190	560	1
04688	Benzyl alcohol	100-51-6	1,800	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	19	190	1
04688	Butylbenzylphthalate	85-68-7	1,700	19	190	1
04688	Di-n-butylphthalate	84-74-2	1,700	19	190	1
04688	Carbazole	86-74-8	1,700	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700	38	190	1
04688	4-Chloroaniline	106-47-8	1,500	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,900	19	190	1
04688	2-Chloronaphthalene	91-58-7	1,600	19	190	1
04688	2-Chlorophenol	95-57-8	1,900	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	38	190	1
04688	Chrysene	218-01-9	1,700	19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600	19	190	1
04688	Dibenzofuran	132-64-9	1,800	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,700	110	380	1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190	1
04688	Diethylphthalate	84-66-2	1,700	19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800	38	190	1
04688	3,5-Dimethylphenol	108-68-9	1,800	38	190	1
04688	Dimethylphthalate	131-11-3	1,700	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400	190	560	1
04688	2,4-Dinitrophenol	51-28-5	2,500	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,800	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,700	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	19	380	1
04688	Fluoranthene	206-44-0	1,700	19	190	1
04688	Fluorene	86-73-7	1,700	19	190	1
04688	Hexachlorobenzene	118-74-1	1,800	19	190	1
04688	Hexachlorobutadiene	87-68-3	1,700	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	2,200	190	560	1
04688	Hexachloroethane	67-72-1	1,500	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190	1
04688	Isophorone	78-59-1	1,700	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-256-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218907
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,800	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190	1
04688	2-Methylphenol	95-48-7	1,800	38	190	1
04688	4-Methylphenol	106-44-5	1,700	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	19	190	1
04688	2-Nitroaniline	88-74-4	1,800	19	190	1
04688	3-Nitroaniline	99-09-2	1,700	38	190	1
04688	4-Nitroaniline	100-01-6	1,500	75	190	1
04688	Nitrobenzene	98-95-3	1,700	19	190	1
04688	2-Nitrophenol	88-75-5	1,900	19	190	1
04688	4-Nitrophenol	100-02-7	1,500	190	560	1
04688	N-Nitrosodimethylamine	62-75-9	1,500	38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,500	19	190	1
04688	Pentachlorophenol	87-86-5	1,400	190	560	1
04688	Phenanthrene	85-01-8	1,700	19	190	1
04688	Phenol	108-95-2	1,800	19	190	1
04688	Pyrene	129-00-0	1,700	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	38	190	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 44 ug/kg. The blank value was not subtracted from the analytical result.					
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	39	0.75	1.9	1
10138	Acenaphthylene	208-96-8	38	0.37	1.9	1
10138	Anthracene	120-12-7	39	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	37	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	43	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	63	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	18	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	50	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	59	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	48	6.7	20	1
10138	Chrysene	218-01-9	44	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	20	0.75	1.9	1
10138	Diethylphthalate	84-66-2	39	6.7	20	1
10138	Dimethylphthalate	131-11-3	42	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	1,700	6.7	20	1
10138	Fluoranthene	206-44-0	44	0.75	1.9	1
10138	Fluorene	86-73-7	39	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-256-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218907
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	20		0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	38		0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	34		0.75	1.9	1
10138	Naphthalene	91-20-3	38		0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	36		0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	88		6.7	20	1
10138	Phenanthrene	85-01-8	38		0.75	1.9	1
10138	Pyrene	129-00-0	43		0.75	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.1		1.4	4.1	1
10401	Dalapon	75-99-0	11		5.0	10	1
10401	2,4-DB	94-82-6	9.9		0.70	1.9	1
10401	Dicamba	1918-00-9	0.80	J	0.45	1.4	1
10401	Dinoseb	88-85-7	2.8		0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	8.5		0.90	1.9	1
10401	MCPA	94-74-6	780		86	280	1
10401	MCPP (Mecoprop)	93-65-2	640		85	280	1
10401	2,4,5-T	93-76-5	0.73		0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.68		0.085	0.19	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.31		0.075	0.19	1
01363	Alpha BHC	319-84-6	0.37		0.038	0.19	1
01363	Beta BHC	319-85-7	0.28		0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.42		0.038	0.19	1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8	1
01363	p,p-DDD	72-54-8	1.5		0.075	0.38	1
01363	p,p-DDE	72-55-9	0.71		0.075	0.38	1
01363	p,p-DDT	50-29-3	1.9		0.075	0.38	1
01363	Delta BHC	319-86-8	0.36		0.041	0.19	1
01363	Dieldrin	60-57-1	7.3		0.075	0.38	1
01363	Endosulfan I	959-98-8	0.42		0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.50		0.075	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.62		0.075	0.38	1
01363	Endrin	72-20-8	0.075	U	0.075	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.52		0.075	0.38	1
01363	Endrin Ketone	53494-70-5	0.69		0.075	0.38	1
01363	Heptachlor	76-44-8	0.59		0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.33		0.038	0.19	1
01363	Methoxychlor	72-43-5	4.7		0.38	1.9	1
01363	Mirex	2385-85-5	0.075	U	0.075	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-256-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218907
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	18		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	17		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.57	22.2	1
07914	Boron	7440-42-8	230		0.986	5.54	1
01650	Calcium	7440-70-2	4,430		6.79	22.2	1
01654	Iron	7439-89-6	17,900		5.22	22.2	1
01656	Lithium	7439-93-2	134		0.24	2.2	1
01657	Magnesium	7439-95-4	4,460		2.81	11.1	1
06958	Manganese	7439-96-5	328		0.0864	0.554	1
10145	Phosphorus	7723-14-0	460		0.620	11.1	1
01662	Potassium	7440-09-7	3,370		19.9	55.4	1
01667	Sodium	7440-23-5	1,180		41.3	111	1
07968	Strontium	7440-24-6	133		0.0687	0.554	1
06969	Tin	7440-31-5	406		1.11	11.1	1
06970	Titanium	7440-32-6	1,390		0.421	1.11	1
10146	Zirconium	7440-67-7	110		0.931	5.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.42		0.0671	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.04		0.0895	0.448	2
06126	Barium	7440-39-3	101		0.121	0.448	2
06127	Beryllium	7440-41-7	2.07		0.0179	0.112	2
06128	Cadmium	7440-43-9	2.16		0.0448	0.112	2
06131	Chromium	7440-47-3	38.1		0.134	0.448	2
06132	Cobalt	7440-48-4	83.3		0.0224	0.112	2
06133	Copper	7440-50-8	23.2		0.0738	0.448	2
06135	Lead	7439-92-1	12.1		0.0116	0.224	2
06138	Molybdenum	7439-98-7	11.5		0.0559	0.112	2
06139	Nickel	7440-02-0	27.3		0.112	0.448	2
06141	Selenium	7782-49-2	2.91		0.0448	0.448	2
06142	Silver	7440-22-4	16.4		0.0134	0.112	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-256-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218907
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	
06145	Thallium	7440-28-0	0.909	0.0336	0.112	2
06148	Vanadium	7440-62-2	59.9	0.0246	0.112	2
06149	Zinc	7440-66-6	188	0.627	3.36	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.190	0.0031	0.107	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 02:20	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 00:34	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/19/2011 15:09	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 22:41	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 16:09	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-256-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218907
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 06:12	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 13:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 13:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 13:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 13:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 13:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 13:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 13:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 13:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 13:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 10:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 13:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 13:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 13:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 13:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 13:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 13:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-256-SA5A-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218908
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.57	22.2	1
07914	Boron	7440-42-8	4.07	J	0.986	5.54	1
01650	Calcium	7440-70-2	3,650		6.79	22.2	1
01654	Iron	7439-89-6	15,800		5.22	22.2	1
01656	Lithium	7439-93-2	17.0		0.24	2.2	1
01657	Magnesium	7439-95-4	3,820		2.81	11.1	1
06958	Manganese	7439-96-5	245		0.0864	0.554	1
10145	Phosphorus	7723-14-0	362		0.620	11.1	1
01662	Potassium	7440-09-7	1,960		19.9	55.4	1
01667	Sodium	7440-23-5	85.1	J	41.3	111	1
07968	Strontium	7440-24-6	16.2		0.0687	0.554	1
06969	Tin	7440-31-5	2.48	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,060		0.421	1.11	1
10146	Zirconium	7440-67-7	1.99	J	0.931	5.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.110	J	0.0652	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.58		0.0869	0.435	2
06126	Barium	7440-39-3	58.5		0.117	0.435	2
06127	Beryllium	7440-41-7	0.442		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.228		0.0435	0.109	2
06131	Chromium	7440-47-3	15.0		0.130	0.435	2
06132	Cobalt	7440-48-4	4.54		0.0217	0.109	2
06133	Copper	7440-50-8	5.54		0.0717	0.435	2
06135	Lead	7439-92-1	4.46		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.412		0.0543	0.109	2
06139	Nickel	7440-02-0	8.26		0.109	0.435	2
06141	Selenium	7782-49-2	0.130	J	0.0435	0.435	2
06142	Silver	7440-22-4	0.0188	J	0.0130	0.109	2
06145	Thallium	7440-28-0	0.192		0.0326	0.109	2
06148	Vanadium	7440-62-2	29.7		0.0239	0.109	2
06149	Zinc	7440-66-6	102		0.608	3.26	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0134	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-256-SA5A-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218908
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	439	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.02	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 06:04	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 13:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 13:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 13:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 13:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 13:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 13:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 13:21	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-256-SA5A-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218908
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9412 SDG#: DE094-12DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 13:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 13:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 10:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 13:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 13:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 13:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 13:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 13:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 13:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201B	03/15/2011 16:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201B	03/14/2011 19:26	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243201A	03/09/2011 20:03	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201B	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201B	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101B	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401B	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-257-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SS-0.0-0.5

LLI Sample # SW 6218909
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9413 SDG#: DE094-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-257-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SS-0.0-0.5

LLI Sample # SW 6218909
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9413 SDG#: DE094-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	0.80	U	0.80	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	180	U	180	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19	1

Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

*=This limit was used in the evaluation of the final result

Sample Description: SL-257-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SS-0.0-0.5

LLI Sample # SW 6218909
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9413 SDG#: DE094-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	16	U	16	16	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38	1
01363	p,p-DDT	50-29-3	1.5		0.074	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	5.9		0.37	1.9	5
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.11	J	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.085	U	0.085	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.35	J	0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.59		0.074	0.38	1
01363	Heptachlor	76-44-8	0.079	U	0.079	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.16	J	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.84		0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS recovery for endosulfan II is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: endrin.
Due to interfering peaks on the chromatogram, the values reported for heptachlor and technical chlordane represent the lowest reporting limits attainable.
The DCB surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-257-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SS-0.0-0.5

LLI Sample # SW 6218909
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9413 SDG#: DE094-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.60	22.2	1
07914	Boron	7440-42-8	5.33	J	0.990	5.56	1
01650	Calcium	7440-70-2	3,940		6.82	22.2	1
01654	Iron	7439-89-6	19,500		5.24	22.2	1
01656	Lithium	7439-93-2	22.3		0.24	2.2	1
01657	Magnesium	7439-95-4	4,690		2.83	11.1	1
06958	Manganese	7439-96-5	282		0.0868	0.556	1
10145	Phosphorus	7723-14-0	477		0.623	11.1	1
01662	Potassium	7440-09-7	2,750		20.0	55.6	1
01667	Sodium	7440-23-5	121		41.5	111	1
07968	Strontium	7440-24-6	20.5		0.0690	0.556	1
06969	Tin	7440-31-5	2.96	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,250		0.423	1.11	1
10146	Zirconium	7440-67-7	0.953	J	0.934	5.56	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.169	J	0.0667	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.23		0.0890	0.445	2
06126	Barium	7440-39-3	72.7		0.120	0.445	2
06127	Beryllium	7440-41-7	0.530		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.728		0.0445	0.111	2
06131	Chromium	7440-47-3	21.5		0.133	0.445	2
06132	Cobalt	7440-48-4	5.61		0.0222	0.111	2
06133	Copper	7440-50-8	9.20		0.0734	0.445	2
06135	Lead	7439-92-1	8.39		0.0116	0.222	2
06138	Molybdenum	7439-98-7	0.547		0.0556	0.111	2
06139	Nickel	7440-02-0	10.1		0.111	0.445	2
06141	Selenium	7782-49-2	0.144	J	0.0445	0.445	2
06142	Silver	7440-22-4	0.0295	J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.262		0.0334	0.111	2
06148	Vanadium	7440-62-2	36.5		0.0245	0.111	2
06149	Zinc	7440-66-6	162		0.623	3.34	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-257-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SS-0.0-0.5

LLI Sample # SW 6218909
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:18

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9413 SDG#: DE094-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	440		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.13		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 07:20	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 10:51	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110730019A	03/17/2011 14:09	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110710012A	03/15/2011 14:44	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/18/2011 22:55	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110630017A	03/22/2011 03:00	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 16:28	Lindsey K Lafferty	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-257-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SS-0.0-0.5

LLI Sample # SW 6218909
LLI Group # 1235277
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14420 Albemarle Point Place
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E9413 SDG#: DE094-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110630017A	03/05/2011 07:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110730019A	03/14/2011 23:30	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110710012A	03/14/2011 09:25	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 07:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 14:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 14:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 14:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 14:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 14:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 14:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 14:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 14:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 14:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 11:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 14:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 14:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 14:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 14:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 14:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 14:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201B	03/15/2011 17:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201B	03/15/2011 12:24	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243201A	03/09/2011 20:34	Carrie E Miller	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-257-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SS-0.0-0.5

LLI Sample # SW 6218909
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9413 SDG#: DE094-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201B	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201B	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101B	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401B	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

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Analysis Report

Sample Description: **EB04-SA5A-030111 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5A-030111

LLI Sample # WW 6218910
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9414 SDG#: DE094-14EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	21	U	21	63	1
04678	Benzoic acid	65-85-0	6	U	6	16	1
04678	Benzyl alcohol	100-51-6	5	U	5	16	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5	1
04678	Carbazole	86-74-8	1	U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5	1
04678	4-Chloroaniline	106-47-8	1	U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5	1
04678	2-Chlorophenol	95-57-8	1	U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5	1
04678	Dibenzofuran	132-64-9	1	U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5	1
04678	Hexachlorobenzene	118-74-1	1	U	1	5	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5	1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
04678	Hexachloroethane	67-72-1	1	U	1	5	1
04678	Isophorone	78-59-1	1	U	1	5	1
04678	2-Methylphenol	95-48-7	1	U	1	5	1
04678	4-Methylphenol	106-44-5	2	U	2	5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1	U	1	5	1
04678	3-Nitroaniline	99-09-2	1	U	1	5	1
04678	4-Nitroaniline	100-01-6	1	U	1	5	1
04678	Nitrobenzene	98-95-3	1	U	1	5	1
04678	2-Nitrophenol	88-75-5	1	U	1	5	1
04678	4-Nitrophenol	100-02-7	10	U	10	31	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3	U	3	16	1
04678	Phenol	108-95-2	1	U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB04-SA5A-030111 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5A-030111

LLI Sample # WW 6218910
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9414 SDG#: DE094-14EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052	1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052	1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052	1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052	1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052	1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052	1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052	1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052	1
10137	Butylbenzylphthalate	85-68-7	0.071	J	0.052	1.0	1
10137	Di-n-butylphthalate	84-74-2	0.33	J	0.052	1.0	1
10137	Chrysene	218-01-9	0.025	J	0.010	0.052	1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052	1
10137	Diethylphthalate	84-66-2	0.074	J	0.052	1.0	1
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.34	J	0.052	1.0	1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.052	1
10137	Fluorene	86-73-7	0.010	U	0.010	0.052	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.052	1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.052	1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.052	1
10137	Naphthalene	91-20-3	0.033	J	0.031	0.052	1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.052	1
10137	Di-n-octylphthalate	117-84-0	0.052	U	0.052	1.0	1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.052	1
10137	Pyrene	129-00-0	0.010	U	0.010	0.052	1

The following compounds were detected in the method blank at the respective concentrations of:
Diethylphthalate .053 ug/l
di-n-butylphthalate .066 ug/l
bis(2-ethylhexyl)phthalate .13 ug/l
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.50	1
10407	Dalapon	75-99-0	0.25	U	0.25	1.3	1
10407	2,4-DB	94-82-6	0.30	U	0.30	1.0	1
10407	Dicamba	1918-00-9	0.081	U	0.081	0.30	1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.50	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.50	1
10407	MCPA	94-74-6	300	U	300	1,000	1
10407	MCPP	93-65-2	50	U	50	200	1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.050	1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.050	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB04-SA5A-030111 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5A-030111

LLI Sample # WW 6218910
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9414 SDG#: DE094-14EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0021 U	0.0021	0.010	1
00177	Alpha BHC	319-84-6	0.0031 U	0.0031	0.010	1
00177	Beta BHC	319-85-7	0.0030 U	0.0030	0.010	1
00177	Gamma BHC - Lindane	58-89-9	0.0021 U	0.0021	0.010	1
00177	Chlordane	57-74-9	0.12 U	0.12	0.52	1
00177	p,p-DDD	72-54-8	0.0052 U	0.0052	0.021	1
00177	p,p-DDE	72-55-9	0.0052 U	0.0052	0.021	1
00177	p,p-DDT	50-29-3	0.0052 U	0.0052	0.021	1
00177	Delta BHC	319-86-8	0.0030 U	0.0030	0.010	1
00177	Dieldrin	60-57-1	0.0055 U	0.0055	0.021	1
00177	Endosulfan I	959-98-8	0.0045 U	0.0045	0.010	1
00177	Endosulfan II	33213-65-9	0.016 U	0.016	0.021	1
00177	Endosulfan Sulfate	1031-07-8	0.0060 U	0.0060	0.021	1
00177	Endrin	72-20-8	0.0084 U	0.0084	0.021	1
00177	Endrin Aldehyde	7421-93-4	0.021 U	0.021	0.10	1
00177	Endrin Ketone	53494-70-5	0.0052 U	0.0052	0.021	1
00177	Heptachlor	76-44-8	0.0027 U	0.0027	0.010	1
00177	Heptachlor Epoxide	1024-57-3	0.0024 U	0.0024	0.010	1
00177	Methoxychlor	72-43-5	0.031 U	0.031	0.10	1
00177	Mirex	2385-85-5	0.088 U	0.088	0.26	1
00177	Toxaphene	8001-35-2	1.0 U	1.0	3.1	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10 U	0.10	0.52	1
10227	Aroclor 5442	12642-23-8	0.10 U	0.10	0.52	1
10227	Aroclor 5460	11126-42-4	0.10 U	0.10	0.52	1
10227	PCB-1016	12674-11-2	0.10 U	0.10	0.52	1
10227	PCB-1221	11104-28-2	0.10 U	0.10	0.52	1
10227	PCB-1232	11141-16-5	0.21 U	0.21	0.52	1
10227	PCB-1242	53469-21-9	0.10 U	0.10	0.52	1
10227	PCB-1248	12672-29-6	0.10 U	0.10	0.52	1
10227	PCB-1254	11097-69-1	0.10 U	0.10	0.52	1
10227	PCB-1260	11096-82-5	0.10 U	0.10	0.52	1
10227	PCB-1262	37324-23-5	0.21 U	0.21	0.52	1
10227	PCB-1268	11100-14-4	0.17 U	0.17	0.52	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0066 J	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500	1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00	1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050	1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB04-SA5A-030111 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5A-030111

LLI Sample # WW 6218910
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9414 SDG#: DE094-14EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500	1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10	1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0	1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11062WAA026	03/10/2011 09:01	Ryan P Byrne	1

*=This limit was used in the evaluation of the final result

Sample Description: EB04-SA5A-030111 Water
SSFL Area IV Collocated Soil Sampling
EB04-SA5A-030111

LLI Sample # WW 6218910
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9414 SDG#: DE094-14EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063WAC026	03/16/2011 04:34	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11062WAA026	03/03/2011 14:40	Kelli M Barto	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11063WAC026	03/04/2011 15:15	Kelli M Barto	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	110640003A	03/08/2011 10:53	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	110620022A	03/04/2011 17:25	Lisa A Reinert	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	110620022A	03/14/2011 18:16	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110620021A	03/10/2011 04:43	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110620021A	03/04/2011 02:45	Roman Kuropatkin	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	110620022A	03/04/2011 02:45	Roman Kuropatkin	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	110640003A	03/06/2011 09:45	Karen L Beyer	1
01743	Aluminum	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
08014	Boron	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
01750	Calcium	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
01754	Iron	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
01756	Lithium	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
01757	Magnesium	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
07058	Manganese	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
01762	Potassium	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
01767	Sodium	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
08068	Strontium	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
07069	Tin	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
07070	Titanium	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
10144	Zirconium	SW-846 6010B	1	110681848003	03/10/2011 19:40	John P Hook	1
06024	Antimony	SW-846 6020	1	110686050002A	03/15/2011 14:38	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	110686050002A	03/15/2011 14:38	Choon Y Tian	1
06026	Barium	SW-846 6020	1	110686050002D	03/15/2011 14:38	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	110686050002A	03/15/2011 14:38	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	110686050002A	03/15/2011 14:38	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	110686050002A	03/15/2011 14:38	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	110686050002A	03/15/2011 14:38	Choon Y Tian	1
06033	Copper	SW-846 6020	1	110686050002A	03/15/2011 14:38	Choon Y Tian	1
06035	Lead	SW-846 6020	1	110686050002A	03/15/2011 14:38	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	110686050002C	03/15/2011 14:38	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	110686050002A	03/15/2011 14:38	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	110686050002B	03/15/2011 14:38	Choon Y Tian	1
06042	Silver	SW-846 6020	1	110686050002A	03/15/2011 14:38	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	110686050002A	03/15/2011 14:38	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	110686050002A	03/15/2011 14:38	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	110686050002A	03/15/2011 14:38	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	110625713005	03/03/2011 19:46	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110681848003	03/10/2011 09:32	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110686050002	03/10/2011 09:30	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110625713005	03/03/2011 16:00	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB04-SA5A-030111 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5A-030111

LLI Sample # WW 6218910
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9414 SDG#: DE094-14EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11062196602A	03/04/2011 03:48	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11061199401A	03/03/2011 06:00	Carrie E Miller	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11061199401A	03/02/2011 13:56	Carrie E Miller	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-244-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-4.0-5.0

LLI Sample # SW 6218911
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:42

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9415 SDG#: DE094-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.7	0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.9	0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9	0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9	0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9	0.84
06192	Bromoform	75-25-2	0.39	U	0.39	3.9	0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9	0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7	0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9	0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9	0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9	0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9	0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9	0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9	0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9	0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.9	0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9	0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9	0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9	0.84
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8	0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9	0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9	0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9	0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9	0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9	0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9	0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9	0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9	0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9	0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.9	0.84
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9	0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9	0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9	0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9	0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9	0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9	0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9	0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9	0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9	0.84
06192	Ethylbenzene	100-41-4	0.15	J	0.06	3.9	0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.9	0.84
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8	0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9	0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7	0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9	0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9	0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9	0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7	0.84
06192	Methylene Chloride	75-09-2	0.72	J	0.23	3.9	0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9	0.84

*=This limit was used in the evaluation of the final result

Sample Description: SL-244-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-4.0-5.0

LLI Sample # SW 6218911
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:42

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9415 SDG#: DE094-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9	0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9	0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9	0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9	0.84
06192	Toluene	108-88-3	0.08	U	0.08	3.9	0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9	0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9	0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9	0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9	0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.9	0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9	0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9	0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9	0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9	0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9	0.84
06192	m+p-Xylene	179601-23-1	0.51	J	0.16	3.9	0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9	0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14	20.16
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-244-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-4.0-5.0

LLI Sample # SW 6218911
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:42

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9415 SDG#: DE094-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-244-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-4.0-5.0

LLI Sample # SW 6218911
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:42

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9415 SDG#: DE094-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,600		5.70	22.7	1
07914	Boron	7440-42-8	6.51		1.01	5.67	1
01650	Calcium	7440-70-2	2,100		6.95	22.7	1
01654	Iron	7439-89-6	21,300		5.34	22.7	1
01656	Lithium	7439-93-2	26.9		0.25	2.3	1
01657	Magnesium	7439-95-4	4,080		2.88	11.3	1
06958	Manganese	7439-96-5	266		0.0885	0.567	1
10145	Phosphorus	7723-14-0	145		0.635	11.3	1
01662	Potassium	7440-09-7	1,930		20.4	56.7	1
01667	Sodium	7440-23-5	131		42.3	113	1
07968	Strontium	7440-24-6	26.7		0.0703	0.567	1
06969	Tin	7440-31-5	3.06	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,400		0.431	1.13	1
10146	Zirconium	7440-67-7	1.80	J	0.953	5.67	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.167	J	0.0674	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.56		0.0898	0.449	2
06126	Barium	7440-39-3	151		0.121	0.449	2
06127	Beryllium	7440-41-7	1.12		0.0180	0.112	2
06128	Cadmium	7440-43-9	0.113		0.0449	0.112	2
06131	Chromium	7440-47-3	22.7		0.135	0.449	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-244-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-4.0-5.0

LLI Sample # SW 6218911
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:42

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9415 SDG#: DE094-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	10.1		0.0225	0.112	2
06133	Copper	7440-50-8	7.70		0.0741	0.449	2
06135	Lead	7439-92-1	8.19		0.0117	0.225	2
06138	Molybdenum	7439-98-7	0.830		0.0562	0.112	2
06139	Nickel	7440-02-0	14.5		0.112	0.449	2
06141	Selenium	7782-49-2	0.108	J	0.0449	0.449	2
06142	Silver	7440-22-4	0.110	J	0.0135	0.112	2
06145	Thallium	7440-28-0	0.351		0.0337	0.112	2
06148	Vanadium	7440-62-2	46.2		0.0247	0.112	2
06149	Zinc	7440-66-6	66.1		0.629	3.37	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0055	J	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.92	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	526		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.94		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.7		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-244-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SL-244-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-4.0-5.0

LLI Sample # SW 6218911
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:42

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9415 SDG#: DE094-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110621AA	03/03/2011 18:45	Laura M Krieger	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110612AA	03/02/2011 21:11	Sara E Johnson	20.16
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106123788	03/02/2011 18:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106123788	03/02/2011 18:45	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106123788	03/02/2011 18:45	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106123788	03/02/2011 18:39	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 07:45	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 11:21	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/16/2011 16:46	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 07:24	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 14:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 14:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 14:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 14:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 14:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 14:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 14:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 14:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 14:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 11:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 14:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 14:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 14:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 14:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 14:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 14:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:36	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-244-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-4.0-5.0

LLI Sample # SW 6218911
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:42

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9415 SDG#: DE094-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201B	03/15/2011 18:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201B	03/15/2011 12:48	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243201A	03/09/2011 20:40	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201B	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201B	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101B	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401B	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-244-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-9.0-10.0

LLI Sample # SW 6218912
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:44

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9416 SDG#: DE094-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	78	U	78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	78	U	78	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-244-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-9.0-10.0

LLI Sample # SW 6218912
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:44

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9416 SDG#: DE094-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,000		5.69	22.6	1
07914	Boron	7440-42-8	6.53		1.01	5.66	1
01650	Calcium	7440-70-2	2,990		6.94	22.6	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-244-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-9.0-10.0

LLI Sample # SW 6218912
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:44

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9416 SDG#: DE094-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	36,500		26.6	113	5
01656	Lithium	7439-93-2	26.3		0.25	2.3	1
01657	Magnesium	7439-95-4	5,800		2.87	11.3	1
06958	Manganese	7439-96-5	195		0.0883	0.566	1
10145	Phosphorus	7723-14-0	161		0.634	11.3	1
01662	Potassium	7440-09-7	3,000		20.4	56.6	1
01667	Sodium	7440-23-5	239		42.2	113	1
07968	Strontium	7440-24-6	33.4		0.0702	0.566	1
06969	Tin	7440-31-5	4.21	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,690		0.430	1.13	1
10146	Zirconium	7440-67-7	0.951	U	0.951	5.66	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.106	J	0.0679	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.37		0.0905	0.453	2
06126	Barium	7440-39-3	153		0.122	0.453	2
06127	Beryllium	7440-41-7	1.60		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.0454	J	0.0453	0.113	2
06131	Chromium	7440-47-3	20.5		0.136	0.453	2
06132	Cobalt	7440-48-4	5.67		0.0226	0.113	2
06133	Copper	7440-50-8	12.8		0.0747	0.453	2
06135	Lead	7439-92-1	12.6		0.0118	0.226	2
06138	Molybdenum	7439-98-7	0.348		0.0566	0.113	2
06139	Nickel	7440-02-0	10.1		0.113	0.453	2
06141	Selenium	7782-49-2	0.324	J	0.0453	0.453	2
06142	Silver	7440-22-4	0.0373	J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.446		0.0339	0.113	2
06148	Vanadium	7440-62-2	51.4		0.0249	0.113	2
06149	Zinc	7440-66-6	133		0.634	3.39	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.116	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3		0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	498		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-244-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-9.0-10.0

LLI Sample # SW 6218912
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:44

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9416 SDG#: DE094-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.26	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11063SLC026	03/15/2011 08:10	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11067SLD026	03/17/2011 11:52	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11067SLD026	03/09/2011 03:15	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11063SLC026	03/05/2011 10:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690010A	03/15/2011 03:37	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690010A	03/10/2011 18:30	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 07:28	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 07:28	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 07:28	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/12/2011 09:06	Damary Valentin	5
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 07:28	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 07:28	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 07:28	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 07:28	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 07:28	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 07:28	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 07:28	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 07:28	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 07:28	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 07:28	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 14:25	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-244-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-9.0-10.0

LLI Sample # SW 6218912
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:44

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9416 SDG#: DE094-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 14:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 14:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 14:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 14:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 14:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 14:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 14:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 14:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 11:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 14:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 14:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 14:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 14:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 14:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 14:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11068621201B	03/15/2011 18:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11070621201B	03/15/2011 13:12	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243201A	03/09/2011 20:59	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11068621201B	03/09/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11070621201B	03/11/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11062182101B	03/03/2011 14:40	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11062039401B	03/03/2011 14:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243201A	03/07/2011 10:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-030111 Water
SSFL Area IV Collocated Soil Sampling
TB-030111

LLI Sample # WW 6218913
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 16:30

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9417 SDG#: DE094-17TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	J	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-030111 Water**
SSFL Area IV Collocated Soil Sampling
TB-030111

LLI Sample # WW 6218913
LLI Group # 1235277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 16:30

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9417 SDG#: DE094-17TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110631AA	03/04/2011 15:08	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110611AA	03/02/2011 15:14	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110611AA	03/02/2011 15:14	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110631AA	03/04/2011 15:08	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110621AA	Sample number(s): 6218911									
Acetone	6.7	U	6.7	8.0	ug/kg	122		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	105		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	100		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	126*		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	89		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	81		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	113		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	107		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	110		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	100		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	102		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	82		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	104		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	103		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	96		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	58		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	102		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	92		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	96		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	98		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	89		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	104		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	94		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	99		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	115		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	102		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	102		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	111		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108		75-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	104		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	107		61-134		
Methylene Chloride	1.1	J	0.24	4.0	ug/kg	114		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	108		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	95		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100		77-120		
Toluene	0.12	J	0.08	4.0	ug/kg	100		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	97		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	99		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	103		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	98		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	105		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	104		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	96		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
Batch number: E110611AA	Sample number(s): 6218913									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	117		80-123		
Batch number: E110612AA	Sample number(s): 6218911									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	102	107	70-130	5	30
Batch number: Y110631AA	Sample number(s): 6218913									
Acetone	6	U	6.	20	ug/l	96	92	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	96	96	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	98	101	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	98	97	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	96	93	80-120	3	30
Bromoform	1	U	1.	5	ug/l	75	76	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	91	90	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	107	105	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	98	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	99	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	96	95	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	98	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	86	85	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	115	117	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	102	99	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	85	85	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	101	102	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	101	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	64	62	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	86	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	86	87	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	98	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	100	100	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	96	97	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	95	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	77	74	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	100	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	111	109	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	89	87	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	101	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	102	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	95	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	101	99	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	95	96	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	96	96	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	0	30
Freon 113	2	U	2.	10	ug/l	84	82	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	92	90	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	86	89	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	103	101	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	95	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	97	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	101	101	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	93	93	80-120	0	30
n-Propylbenzene	1	U	1.	5	ug/l	102	103	80-120	1	30
Styrene	1	U	1.	5	ug/l	90	89	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	95	92	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	99	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	90	91	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	94	94	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	86	88	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	91	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	86	85	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	98	98	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	97	97	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	91	88	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	104	103	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	101	101	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	99	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	85	83	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	91	92	80-120	0	30
Batch number: 11062WAA026	Sample number(s): 6218910									
Aniline	1	U	1.	5	ug/l	106*	86	49-101	21	30
Benzidine	20	U	20.	60	ug/l	107	87	34-117	21	30
Benzoic acid	6	U	6.	15	ug/l	35	33	10-69	5	30
Benzyl alcohol	5	U	5.	15	ug/l	74	70	66-97	7	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	99	101	82-117	1	30
Carbazole	1	U	1.	5	ug/l	95	93	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	89	87	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	93	69	42-124	30	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	92	89	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	79	77	77-108	3	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	98	96	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	75	72	54-132	4	30
2-Chlorophenol	1	U	1.	5	ug/l	86	88	77-108	2	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	99	98	82-111	0	30
Dibenzofuran	1	U	1.	5	ug/l	97	95	83-108	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	89	85	55-118	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	89	84	50-119	6	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	88	83	53-119	6	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	74	61	49-111	20	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	96	96	80-109	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	89	87	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	89	90	70-130	1	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	89	91	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	86	87	52-131	1	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	104	99	81-115	5	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	100	97	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	85	85	78-116	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	102	104	81-118	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	100	96	57-124	4	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	83	81	36-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	82	76	52-113	7	30
Isophorone	1	U	1.	5	ug/l	93	91	74-117	2	30
2-Methylphenol	1	U	1.	5	ug/l	74	72	64-101	2	30
4-Methylphenol	2	U	2.	5	ug/l	64	63	61-103	3	30
2-Nitroaniline	1	U	1.	5	ug/l	94	90	83-116	4	30
3-Nitroaniline	1	U	1.	5	ug/l	94	90	74-113	4	30
4-Nitroaniline	1	U	1.	5	ug/l	80	73	59-100	9	30
Nitrobenzene	1	U	1.	5	ug/l	85	84	75-109	2	30
2-Nitrophenol	1	U	1.	5	ug/l	96	97	86-120	1	30
4-Nitrophenol	10	U	10.	30	ug/l	31	28	16-78	11	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	87	84	69-110	4	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	96	96	67-136	0	30
Pentachlorophenol	3	U	3.	15	ug/l	85	89	53-110	4	30
Phenol	1	U	1.	5	ug/l	33	31	21-67	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	95	91	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	96	97	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	99	99	81-113	1	30

Batch number: 11063SLC026 Sample number(s): 6218894-6218907,6218909,6218911-6218912

Acenaphthene	17	U	17.	170	ug/kg	89		76-111
Acenaphthylene	17	U	17.	170	ug/kg	94		75-122
Aniline	170 U		170.	500	ug/kg	87		34-94
Anthracene	17	U	17.	170	ug/kg	90		76-112
Benzidine	1,200 U		1,200.	3,300	ug/kg	52		15-121
Benzo(a)anthracene	17	U	17.	170	ug/kg	94		73-112
Benzo(a)pyrene	17	U	17.	170	ug/kg	82		69-122
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	77		61-127
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	82		65-122
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	89		67-125
Benzoic acid	170 U		170.	500	ug/kg	86		62-113
Benzyl alcohol	170 U		170.	500	ug/kg	96		68-111
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	91		79-117
Butylbenzylphthalate	17	U	17.	170	ug/kg	88		75-115
Di-n-butylphthalate	17	U	17.	170	ug/kg	90		79-112
Carbazole	17	U	17.	170	ug/kg	91		77-113
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119
4-Chloroaniline	67	U	67.	170	ug/kg	58		10-110
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	89		70-118
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	80		70-104
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	95		68-131
2-Chloronaphthalene	17	U	17.	170	ug/kg	84		49-128
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Chrysene	17	U	17.	170	ug/kg	90		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	80		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	80		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	74		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	96		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	98		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	92		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	81		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	76		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	101		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	93		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	87		77-111		
bis(2-Ethylhexyl)phthalate	44	J	17.	330	ug/kg	88		75-117		
Fluoranthene	17	U	17.	170	ug/kg	93		78-116		
Fluorene	17	U	17.	170	ug/kg	92		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	86		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	75		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	81		64-119		
Isophorone	17	U	17.	170	ug/kg	91		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	97		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	89		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	94		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	93		66-117		
Naphthalene	17	U	17.	170	ug/kg	86		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	87		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	96		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	77		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	74		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	90		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	78		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	74		51-117		
Phenanthrene	17	U	17.	170	ug/kg	89		77-113		
Phenol	17	U	17.	170	ug/kg	91		58-112		
Pyrene	17	U	17.	170	ug/kg	92		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	87		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11063WAC026	Sample number(s): 6218910									
Acenaphthene	0.010	U	0.010	0.050	ug/l	110*	107	74-109	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthylene	0.010	U	0.010	0.050	ug/l	105	102	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	105	103	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	108	105	72-114	3	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	106	104	60-127	2	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	104	103	69-123	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	120	119	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	115	112	59-130	3	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	77	83	40-138	7	30
Di-n-butylphthalate	0.066	J	0.050	1.0	ug/l	107	108	74-131	0	30
Chrysene	0.010	U	0.010	0.050	ug/l	108	116	76-116	7	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	115	113	55-134	2	30
Diethylphthalate	0.053	J	0.050	1.0	ug/l	94	96	57-134	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	54	61	40-119	11	30
Bis(2-Ethylhexyl)phthalate	0.13	J	0.050	1.0	ug/l	114	120	57-154	5	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	109	107	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	110	108	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	116	114	69-124	2	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	106	104	71-117	2	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	96	94	75-115	2	30
Naphthalene	0.030	U	0.030	0.050	ug/l	98	96	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	81	79	36-89	3	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	114	115	57-145	0	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	107	105	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	104	102	69-118	1	30

Batch number: 11067SLD026 Sample number(s): 6218894-6218907,6218909,6218911-6218912

Acenaphthene	0.67	U	0.67	1.7	ug/kg	92	63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89	60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	93	55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	100	74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	97	58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	107	63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	104	44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	101	54-142
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	109	65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	108	75-137
Chrysene	0.33	U	0.33	1.7	ug/kg	101	73-114
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	103	53-138
Diethylphthalate	6.0	U	6.0	18	ug/kg	91	68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	100	79-121
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	121	67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102	64-120
Fluorene	0.67	U	0.67	1.7	ug/kg	96	71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	103	56-134
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88	72-120
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	79	62-120
Naphthalene	0.67	U	0.67	1.7	ug/kg	85	67-120
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	82	55-118
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	115	55-176
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93	75-120
Pyrene	0.67	U	0.67	1.7	ug/kg	94	56-121

Batch number: 110640003A Sample number(s): 6218910

2,4-D	0.16	U	0.16	0.50	ug/l	108	73-157
Dalapon	0.25	U	0.25	1.3	ug/l	68	40-100
2,4-DB	0.30	U	0.30	1.0	ug/l	108	65-130
Dicamba	0.080	U	0.080	0.30	ug/l	96	68-135
Dinoseb	0.10	U	0.10	0.50	ug/l	84	32-91

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	128		76-170		
MCPA	300 U		300.	1,000	ug/l	90		65-128		
MCPP	50	U	50.	200	ug/l	104		67-137		
2,4,5-T	0.015	U	0.015	0.050	ug/l	100		63-147		
2,4,5-TP	0.010	U	0.010	0.050	ug/l	104		63-134		
Batch number: 110730019A	Sample number(s): 6218894-6218907,6218909									
2,4-D	1.2	U	1.2	3.6	ug/kg	83		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	30		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	90		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	65		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	30		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	94		62-170		
MCPA	76	U	76.	250	ug/kg	76		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	65		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	76		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	72		68-114		
Batch number: 110710012A	Sample number(s): 6218897,6218899,6218902,6218909									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		85-115		
Batch number: 110620021A	Sample number(s): 6218910									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	76	68	35-84	11	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	88	86	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	90	90	56-135	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110620022A	Sample number(s): 6218910									
Aldrin	0.0020	U	0.0020	0.010	ug/l	121	121	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	120	59-146	9	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	102	113	73-147	11	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	110	120	68-128	9	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	120	125	71-139	4	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	121	126	66-130	4	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	95	100	53-126	5	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	100	100	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	91	99	68-128	8	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	100	105	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	125	125	71-142	0	30
Endrin	0.0081	U	0.0081	0.020	ug/l	85	95	52-132	11	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	115	115	68-139	0	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	115	120	69-146	4	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	100	110	57-126	10	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	112	73-156	0	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	97	100	52-133	3	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110630017A	Sample number(s): 6218894-6218907,6218909								
Aldrin	0.066 U	0.066	0.17	ug/kg	79		44-135		
Alpha BHC	0.034 U	0.034	0.17	ug/kg	103		38-130		
Beta BHC	0.060 U	0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034 U	0.034	0.17	ug/kg	109		46-127		
Chlordane	0.80 U	0.80	3.4	ug/kg					
p,p-DDD	0.066 U	0.066	0.34	ug/kg	108		60-137		
p,p-DDE	0.066 U	0.066	0.34	ug/kg	100		59-141		
p,p-DDT	0.066 U	0.066	0.34	ug/kg	129		54-130		
Delta BHC	0.036 U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066 U	0.066	0.34	ug/kg	101		65-129		
Endosulfan I	0.044 U	0.044	0.17	ug/kg	131*		45-123		
Endosulfan II	0.066 U	0.066	0.34	ug/kg	162*		63-127		
Endosulfan Sulfate	0.066 U	0.066	0.34	ug/kg	115		72-138		
Endrin	0.066 U	0.066	0.34	ug/kg	104		62-129		
Endrin Aldehyde	0.066 U	0.066	0.34	ug/kg	92		55-132		
Endrin Ketone	0.066 U	0.066	0.34	ug/kg	111		69-139		
Heptachlor	0.060 U	0.060	0.17	ug/kg	91		43-124		
Heptachlor Epoxide	0.034 U	0.034	0.17	ug/kg	100		65-131		
Methoxychlor	0.34 U	0.34	1.7	ug/kg	113		59-125		
Mirex	0.066 U	0.066	0.34	ug/kg					
Toxaphene	2.2 U	2.2	6.6	ug/kg					
Batch number: 110690010A	Sample number(s): 6218894-6218907,6218909,6218911-6218912								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	72	70	36-106	2	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	80		72-120		
PCB-1221	0.33 U	0.33	1.7	ug/kg					
PCB-1232	0.33 U	0.33	1.7	ug/kg					
PCB-1242	0.33 U	0.33	1.7	ug/kg					
PCB-1248	0.33 U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	0.33	1.7	ug/kg					
PCB-1260	0.39 U	0.39	1.7	ug/kg	94		65-137		
PCB-1262	0.33 U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	0.33	1.7	ug/kg					
Batch number: 110625713005	Sample number(s): 6218910								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	110	109	80-120	1	20
Batch number: 110681848003	Sample number(s): 6218910								
Aluminum	0.0834 U	0.0834	0.200	mg/l	100	102	90-112	2	20
Boron	0.0138 U	0.0138	0.0500	mg/l	97	97	90-110	1	20
Calcium	0.0702 U	0.0702	0.200	mg/l	101	101	90-112	0	20
Iron	0.0522 U	0.0522	0.200	mg/l	104	107	90-112	2	20
Lithium	0.0049 J	0.0024	0.0200	mg/l	101	101	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	100	100	89-110	0	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	102	103	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	101	101	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	100	100	85-115	0	20
Sodium	0.433 U	0.433	1.00	mg/l	100	99	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	104	104	90-110	0	20
Tin	0.0098 U	0.0098	0.0200	mg/l	101	100	90-110	1	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	103	102	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	105	103	80-120	1	20

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110686050002A	Sample number(s): 6218910								
Antimony	0.00030 U	0.00030	0.0010	mg/l	104	110	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	97	93	86-111	4	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	111	110	90-112	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	98	101	90-114	4	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	104	102	90-118	3	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	102	101	80-120	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	104	106	90-113	2	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	108	111	90-115	3	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	105	90-113	3	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	104	105	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	98	101	89-116	3	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	106	104	80-120	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	107	105	80-120	1	20
Batch number: 110686050002B	Sample number(s): 6218910								
Selenium	0.00025 U	0.00025	0.0020	mg/l	106	107	85-114	1	20
Batch number: 110686050002C	Sample number(s): 6218910								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	102	80-120	3	20
Batch number: 110686050002D	Sample number(s): 6218910								
Barium	0.00053 U	0.00053	0.0020	mg/l	103	101	88-113	1	20
Batch number: 110691026002A	Sample number(s): 6218894-6218909,6218911-6218912								
Antimony	0.0600 U	0.0600	0.200	mg/kg	124		11-208		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	108		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	108		82-118		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	112		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	108		82-118		
Copper	0.241 J	0.0660	0.400	mg/kg	105		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	109		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	109		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	110		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	105		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	105		78-122		
Batch number: 110691026002B	Sample number(s): 6218894-6218909,6218911-6218912								
Selenium	0.0400 U	0.0400	0.400	mg/kg	106		79-122		
Batch number: 110691026002C	Sample number(s): 6218894-6218909,6218911-6218912								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 110691026002D	Sample number(s): 6218894-6218909,6218911-6218912								
Barium	0.108 U	0.108	0.400	mg/kg	107		79-121		
Batch number: 110695708004	Sample number(s): 6218894-6218909,6218911-6218912								
Aluminum	5.03 U	5.03	20.0	mg/kg	105		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	98		78-110		
Calcium	7.51 J	6.13	20.0	mg/kg	96		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	97		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	107		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	104		81-119		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phosphorus	1.37	J	0.560	10.0	mg/kg	109		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	100		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	105		79-121		
Tin	1.47	J	1.00	10.0	mg/kg	99		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	117		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	106		80-120		
Batch number: 110695711003	Sample number(s): 6218894-6218909,6218911-6218912									
Mercury	0.0028	U	0.0028	0.0992	mg/kg	100		88-123		
Batch number: 11061199401A	Sample number(s): 6218910									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	95	95	90-110	0	20
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	104	105	85-115	1	20
Batch number: 11062196602A	Sample number(s): 6218910									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	95	95	90-110	0	20
Batch number: 11066243201A	Sample number(s): 6218894-6218906,6218908-6218909,6218911-6218912									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	84		80-120		
Batch number: 11068621201A	Sample number(s): 6218894-6218903									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
Batch number: 11068621201B	Sample number(s): 6218904-6218906,6218908-6218909,6218911-6218912									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
Batch number: 11070621201A	Sample number(s): 6218894-6218903									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	113		85-115		
Batch number: 11070621201B	Sample number(s): 6218904-6218906,6218908-6218909,6218911-6218912									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	113		85-115		
Batch number: 11062039401A	Sample number(s): 6218894-6218902									
18a pH by 9045C						99		95-105		
Batch number: 11062039401B	Sample number(s): 6218903-6218905,6218908-6218909,6218911-6218912									
18a pH by 9045C						99		95-105		
Batch number: 11062182101A	Sample number(s): 6218894-6218902									
32a OR Potential						99		98-102		
Batch number: 11062182101B	Sample number(s): 6218903-6218905,6218908-6218909,6218911-6218912									
32a OR Potential						99		98-102		
Batch number: 11068162401B	Sample number(s): 6218894-6218909,6218911-6218912									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110621AA	Sample number(s): 6218911 UNSPK: P220827								
Acetone	105	114	15-210	7	30				
Benzene	100	103	55-143	2	30				
Bromobenzene	94	94	43-139	1	30				
Bromochloromethane	120	119	60-137	2	30				
Bromodichloromethane	92	95	53-136	2	30				
Bromoform	77	80	38-124	3	30				
Bromomethane	64	73	42-168	11	30				
2-Butanone	96	98	37-163	0	30				
n-Butylbenzene	92	91	30-146	3	30				
sec-Butylbenzene	98	97	33-157	3	30				
tert-Butylbenzene	92	92	41-152	2	30				
Carbon Tetrachloride	97	101	45-153	3	30				
Chlorobenzene	91	93	49-135	0	30				
Chloroethane	64	75	39-152	14	30				
2-Chloroethyl Vinyl Ether	92	88	32-139	6	30				
Chloroform	100	102	61-142	0	30				
Chloromethane	89	89	51-163	2	30				
2-Chlorotoluene	94	93	42-146	2	30				
4-Chlorotoluene	92	91	39-145	2	30				
Chlorotrifluoroethene	56*	58*	70-130	1	30				
1,2-Dibromo-3-chloropropane	78	79	30-139	0	30				
Dibromochloromethane	83	86	51-128	2	30				
1,2-Dibromoethane	90	93	54-129	1	30				
Dibromomethane	95	98	57-130	2	30				
1,2-Dichlorobenzene	87	86	36-133	3	30				
1,3-Dichlorobenzene	89	89	34-134	1	30				
1,4-Dichlorobenzene	89	89	35-136	1	30				
Dichlorodifluoromethane	80	77	26-151	5	30				
1,1-Dichloroethane	100	103	63-142	2	30				
1,2-Dichloroethane	99	101	68-131	0	30				
1,1-Dichloroethene	109	112	61-149	1	30				
cis-1,2-Dichloroethene	100	103	60-136	1	30				
trans-1,2-Dichloroethene	102	105	59-142	1	30				
1,2-Dichloropropane	97	101	62-135	2	30				
1,3-Dichloropropane	93	95	58-129	0	30				
2,2-Dichloropropane	99	103	53-147	3	30				
1,1-Dichloropropene	103	105	54-145	1	30				
cis-1,3-Dichloropropene	90	94	51-131	2	30				
trans-1,3-Dichloropropene	85	87	49-129	1	30				
Ethylbenzene	92	95	44-141	2	30				
Freon 113	115	117	56-156	0	30				
Freon 133a	99	105	61-131	2	30				
Hexachlorobutadiene	86	81	10-155	8	30				
2-Hexanone	92	97	32-160	3	30				
Isopropylbenzene	89	91	38-144	2	30				
p-Isopropyltoluene	95	94	29-152	3	30				
Methyl Tertiary Butyl Ether	94	97	55-129	1	30				
4-Methyl-2-pentanone	89	92	46-139	2	30				
Methylene Chloride	103	104	61-141	1	30				
n-Propylbenzene	101	102	39-157	1	30				
Styrene	88	90	35-134	1	30				
1,1,1,2-Tetrachloroethane	86	89	52-130	1	30				
1,1,2,2-Tetrachloroethane	91	90	40-152	3	30				
Tetrachloroethene	90	94	42-149	2	30				
Toluene	94	97	50-146	2	30				
1,2,3-Trichlorobenzene	79	77	10-140	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trichlorobenzene	80	78	10-136	4	30				
1,1,1-Trichloroethane	98	103	64-142	4	30				
1,1,2-Trichloroethane	92	93	54-139	0	30				
Trichloroethene	97	100	53-144	2	30				
Trichlorofluoromethane	96	96	47-163	1	30				
1,2,3-Trichloropropane	93	92	45-154	3	30				
1,2,4-Trimethylbenzene	94	93	37-149	3	30				
1,3,5-Trimethylbenzene	93	93	38-150	2	30				
Vinyl Chloride	92	91	50-154	2	30				
m+p-Xylene	90	93	44-137	2	30				
o-Xylene	88	90	42-137	1	30				
Batch number: E110611AA	Sample number(s): 6218913 UNSPK: P218588								
1,4-Dioxane	110	117	73-138	6	30				
Batch number: 11063SLC026	Sample number(s): 6218894-6218907,6218909,6218911-6218912 UNSPK: 6218905								
Acenaphthene	94	92	75-115	2	30				
Acenaphthylene	97	96	81-110	2	30				
Aniline	110*	113*	35-95	3	30				
Anthracene	94	93	75-115	0	30				
Benzidine	59	62	35-141	5	30				
Benzo(a)anthracene	98	94	65-122	4	30				
Benzo(a)pyrene	86	87	57-126	1	30				
Benzo(b)fluoranthene	87	86	59-125	2	30				
Benzo(g,h,i)perylene	89	89	59-127	1	30				
Benzo(k)fluoranthene	84	83	56-132	1	30				
Benzoic acid	89	95	10-173	7	30				
Benzyl alcohol	95	97	67-115	2	30				
4-Bromophenyl-phenylether	98	94	67-129	4	30				
Butylbenzylphthalate	94	90	73-134	5	30				
Di-n-butylphthalate	92	91	67-123	1	30				
Carbazole	93	91	64-120	2	30				
4-Chloro-3-methylphenol	95	92	76-110	3	30				
4-Chloroaniline	84	81	23-95	4	30				
bis(2-Chloroethoxy)methane	92	91	75-104	2	30				
bis(2-Chloroethyl)ether	82	83	60-116	2	30				
bis(2-Chloroisopropyl)ether	99	98	55-142	1	30				
2-Chloronaphthalene	89	87	50-141	3	30				
2-Chlorophenol	97	99	73-121	2	30				
4-Chlorophenyl-phenylether	93	92	80-109	1	30				
Chrysene	93	91	62-128	2	30				
Dibenz(a,h)anthracene	86	86	65-125	1	30				
Dibenzofuran	96	95	71-112	2	30				
1,2-Dichlorobenzene	85	87	66-108	2	30				
1,3-Dichlorobenzene	83	84	63-109	2	30				
1,4-Dichlorobenzene	83	85	70-100	2	30				
3,3'-Dichlorobenzidine	94	90	16-119	4	30				
2,4-Dichlorophenol	99	97	78-117	2	30				
Diethylphthalate	93	90	66-118	3	30				
2,4-Dimethylphenol	97	95	78-110	2	30				
3,5-Dimethylphenol	99	98	70-130	2	30				
Dimethylphthalate	94	92	64-118	2	30				
4,6-Dinitro-2-methylphenol	82	76	24-116	8	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrophenol	77	66	20-143	16	30				
2,4-Dinitrotoluene	97	98	73-113	0	30				
2,6-Dinitrotoluene	97	92	69-123	4	30				
1,2-Diphenylhydrazine	90	91	71-129	1	30				
bis(2-Ethylhexyl)phthalate	94	90	63-122	4	30				
Fluoranthene	95	93	73-112	2	30				
Fluorene	95	92	77-111	3	30				
Hexachlorobenzene	97	97	77-114	1	30				
Hexachlorobutadiene	95	92	62-120	3	30				
Hexachlorocyclopentadiene	66	58	10-153	13	30				
Hexachloroethane	77	78	57-109	1	30				
Indeno(1,2,3-cd)pyrene	88	87	61-126	1	30				
Isophorone	95	93	73-102	2	30				
1-Methylnaphthalene	101	98	73-112	3	30				
2-Methylnaphthalene	93	92	76-114	1	30				
2-Methylphenol	93	95	75-111	2	30				
4-Methylphenol	90	92	71-111	2	30				
Naphthalene	90	89	72-116	1	30				
2-Nitroaniline	94	93	67-125	1	30				
3-Nitroaniline	92	92	59-122	0	30				
4-Nitroaniline	80	78	52-112	2	30				
Nitrobenzene	92	91	72-106	1	30				
2-Nitrophenol	100	100	74-115	0	30				
4-Nitrophenol	79	78	54-113	1	30				
N-Nitroso-di-n-propylamine	89	89	60-116	0	30				
N-Nitrosodimethylamine	79	82	47-116	3	30				
N-Nitrosodiphenylamine	94	94	86-145	0	30				
Di-n-octylphthalate	82	80	56-126	2	30				
Pentachlorophenol	78	75	28-127	4	30				
Phenanthrene	92	89	65-125	2	30				
Phenol	92	93	58-126	2	30				
Pyrene	94	90	74-126	4	30				
1,2,4-Trichlorobenzene	93	91	72-115	2	30				
2,4,5-Trichlorophenol	100	98	78-109	2	30				
2,4,6-Trichlorophenol	102	101	77-115	1	30				
Batch number: 11067SLD026	Sample number(s): 6218894-6218907,6218909,6218911-6218912 UNSPK: 6218905								
Acenaphthene	101	103	63-105	2	30				
Acenaphthylene	95	101	67-114	5	30				
Anthracene	97	103	60-122	6	30				
Benzo(a)anthracene	99	96	59-128	3	30				
Benzo(a)pyrene	100	111	45-138	10	30				
Benzo(b)fluoranthene	126	162*	43-155	24	30				
Benzo(g,h,i)perylene	70	44	33-141	42*	30				
Benzo(k)fluoranthene	99	133	42-144	28	30				
Butylbenzylphthalate	116	159	57-173	31*	30				
Di-n-butylphthalate	112	128	65-148	13	30				
Chrysene	99	115	48-134	15	30				
Dibenz(a,h)anthracene	73	53	22-133	32*	30				
Diethylphthalate	95	105	70-136	10	30				
Dimethylphthalate	104	112	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	137	4512*	39-167	188*	30				
Fluoranthene	103	115	26-166	11	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluorene	97	104	66-122	7	30				
Indeno(1,2,3-cd)pyrene	72	51	21-143	34*	30				
1-Methylnaphthalene	95	101	72-123	6	30				
2-Methylnaphthalene	85	91	64-103	7	30				
Naphthalene	95	101	61-102	7	30				
N-Nitrosodimethylamine	89	97	48-113	9	30				
Di-n-octylphthalate	129	234*	40-192	58*	30				
Phenanthrene	97	101	12-165	4	30				
Pyrene	92	112	15-153	19	30				
Batch number: 110640003A	Sample number(s): 6218910 UNSPK: P222800								
2,4-D	100	104	30-207	4	30				
Dalapon	68	77	35-109	14	30				
2,4-DB	88	96	50-135	9	30				
Dicamba	0*	0*	66-128	0	30				
Dinoseb	85	95	10-140	13	30				
2,4-DP (Dichlorprop)	104	104	63-189	4	30				
MCPA	83	80	53-140	3	30				
MCPP	71	50*	54-153	34*	30				
2,4,5-T	88	96	68-137	9	30				
2,4,5-TP	113	121	52-133	7	30				
Batch number: 110730019A	Sample number(s): 6218894-6218907,6218909 UNSPK: 6218905								
2,4-D	85	86	17-180	1	35				
Dalapon	13	45	10-125	200*	50				
2,4-DB	103	105	10-201	2	50				
Dicamba	81	86	10-190	6	50				
Dinoseb	14	17	10-46	24	35				
2,4-DP (Dichlorprop)	87	90	33-178	4	50				
MCPA	72	83	10-213	14	50				
MCPP (Mecoprop)	63	68	10-184	8	50				
2,4,5-T	53	78	10-156	39*	35				
2,4,5-TP	65	72	24-141	11	35				
Batch number: 110710012A	Sample number(s): 6218897,6218899,6218902,6218909 UNSPK: 6218897								
6a Perchlorate EPA 6850	105	105	80-120	0	20				
Batch number: 110630017A	Sample number(s): 6218894-6218907,6218909 UNSPK: 6218905								
Aldrin	67	82	16-126	20	50				
Alpha BHC	91	100	10-129	10	50				
Beta BHC	78	78	14-147	0	50				
Gamma BHC - Lindane	97	112	10-140	14	50				
p,p-DDD	-21*	21	16-163	33	50				
p,p-DDE	85	97	18-161	14	50				
p,p-DDT	62	75	10-176	6	50				
Delta BHC	84	100	23-140	17	50				
Dieldrin	126	273*	19-154	25	50				
Endosulfan I	83	103	16-137	21	50				
Endosulfan II	72	83	28-154	15	50				
Endosulfan Sulfate	126	85	21-160	39	50				
Endrin	0*	0*	11-149	0	50				
Endrin Aldehyde	62	70	10-148	11	35				
Endrin Ketone	108	92	22-165	15	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Heptachlor	81	111	13-126	31	50				
Heptachlor Epoxide	73	88	13-157	19	50				
Methoxychlor	110	92	32-147	17	50				
Batch number: 110690010A	Sample number(s): 6218894-6218907,6218909,6218911-6218912 UNSPK: 6218905								
PCB-1016	99	95	29-146	4	50				
PCB-1260	98	91	39-149	7	50				
Batch number: 110691026002A	Sample number(s): 6218894-6218909,6218911-6218912 UNSPK: 6218905 BKG: 6218905								
Antimony	201*	94	75-125	66*	20	0.143 J	0.0970 J	38* (1)	20
Arsenic	136*	150*	75-125	4	20	5.04	3.17	46*	20
Beryllium	136*	163*	75-125	13	20	0.536	0.391	31* (1)	20
Cadmium	145*	159*	75-125	8	20	0.343	0.202	52* (1)	20
Chromium	122	150*	75-125	9	20	18.9	13.2	35*	20
Cobalt	129*	138*	75-125	7	20	5.40	4.02	29*	20
Copper	128*	146*	75-125	9	20	6.13	4.90	22*	20
Lead	148*	200*	75-125	16	20	4.80	3.95	19	20
Nickel	131*	144*	75-125	6	20	9.98	7.31	31*	20
Silver	144*	146*	75-125	2	20	0.0214 J	0.0166 J	25* (1)	20
Thallium	138*	151*	75-125	8	20	0.206	0.170	19 (1)	20
Vanadium	116	159*	75-125	8	20	37.3	26.3	34*	20
Zinc	-91 (2)	271 (2)	75-125	24*	20	139	90.0	43*	20
Batch number: 110691026002B	Sample number(s): 6218894-6218909,6218911-6218912 UNSPK: 6218905 BKG: 6218905								
Selenium	112	123	75-125	10	20	0.127 J	0.115 J	10 (1)	20
Batch number: 110691026002C	Sample number(s): 6218894-6218909,6218911-6218912 UNSPK: 6218905 BKG: 6218905								
Molybdenum	101	99	75-125	1	20	0.330	0.365	10 (1)	20
Batch number: 110691026002D	Sample number(s): 6218894-6218909,6218911-6218912 UNSPK: 6218905 BKG: 6218905								
Barium	86 (2)	154 (2)	75-125	8	20	74.2	51.8	36*	20
Batch number: 110695708004	Sample number(s): 6218894-6218909,6218911-6218912 UNSPK: 6218905 BKG: 6218905								
Aluminum	1026 (2)	1025 (2)	75-125	0	20	10,800	10,100	7	20
Boron	100	102	84-115	2	20	3.94 J	3.60 J	9 (1)	20
Calcium	-104 (2)	9 (2)	75-125	12	20	3,880	3,230	18	20
Iron	1003 (2)	1059 (2)	75-125	0	20	14,800	14,000	5	20
Lithium	105	104	82-114	1	20	16.3	15.1	8	20
Magnesium	301 (2)	211 (2)	75-125	4	20	3,530	3,380	4	20
Manganese	105 (2)	148 (2)	75-125	8	20	217	217	0	20
Phosphorus	63*	97	75-125	9	20	312	320	3	20
Potassium	123	121	75-125	1	20	1,800	1,730	4	20
Sodium	100	99	75-125	1	20	77.8 J	75.3 J	3 (1)	20
Strontium	101	104	75-115	2	20	15.7	14.3	9	20
Tin	92	91	80-110	2	20	2.32 J	2.20 J	5 (1)	20
Titanium	304 (2)	273 (2)	75-125	2	20	959	935	3	20
Zirconium	99	98	75-125	1	20	1.21 J	1.76 J	37* (1)	20
Batch number: 110695711003	Sample number(s): 6218894-6218909,6218911-6218912 UNSPK: 6218905 BKG: 6218905								
Mercury	103	100	65-135	3	20	0.0118 J	0.0119 J	1 (1)	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11066243201A	Sample number(s): 6218894-6218906,6218908-6218909,6218911-6218912 UNSPK: 6218905 BKG: 6218905								
3a Cr VI by EPA 7199	92		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11068621201A	Sample number(s): 6218894-6218903 UNSPK: 6218895 BKG: 6218895								
11a Anions by 300.0 - Fluoride	52*		80-120			1.1	0.91 J	20 (1)	20
Batch number: 11068621201B	Sample number(s): 6218904-6218906,6218908-6218909,6218911-6218912 UNSPK: 6218905 BKG: 6218905								
11a Anions by 300.0 - Fluoride	75*		80-120			1.5	1.5	2 (1)	20
Batch number: 11070621201A	Sample number(s): 6218894-6218903 UNSPK: 6218895 BKG: 6218895								
7a Perchlorate EPA 314.0	106		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11070621201B	Sample number(s): 6218904-6218906,6218908-6218909,6218911-6218912 UNSPK: 6218905 BKG: 6218905								
7a Perchlorate EPA 314.0	109		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11062039401A	Sample number(s): 6218894-6218902 BKG: 6218895								
18a pH by 9045C						6.30	6.03	4*	1
Batch number: 11062039401B	Sample number(s): 6218903-6218905,6218908-6218909,6218911-6218912 BKG: 6218905								
18a pH by 9045C						8.05	8.02	0	1
Batch number: 11062182101A	Sample number(s): 6218894-6218902 BKG: 6218895								
32a OR Potential						457	491	7*	6
Batch number: 11062182101B	Sample number(s): 6218903-6218905,6218908-6218909,6218911-6218912 BKG: 6218905								
32a OR Potential						437	439	1	6
Batch number: 11068162401B	Sample number(s): 6218894-6218909,6218911-6218912 BKG: 6218905								
28a Moisture Content by 160.3						11.5	11.6	1	20
Moisture Content by 160.3						11.5	11.6	1	20
Moisture Content by 160.3						11.5	11.6	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110621AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6218911	103	103	99	99
Blank	102	105	99	97
LCS	103	106	100	100
MS	100	102	100	99
MSD	100	103	100	107

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Surrogate Quality Control

Limits:	80-120	80-120	81-117	74-121		

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110611AA

	Toluene-d8
6218913	98
Blank	98
LCS	98
MS	98
MSD	98
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110612AA

	Toluene-d8
6218911	96
Blank	97
LCS	97
LCSD	96
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110631AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6218913	104	98	103	99
Blank	102	97	104	100
LCS	104	100	105	100
LCSD	104	101	104	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11062WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6218910	42	24	90	75	84	73
Blank	36	20	85	67	75	76
LCS	50	30	96	82	90	86
LCSD	47	28	98	79	88	80
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11063SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6218894	88	89	85	85	86	79
6218895	87	90	87	85	88	79
6218896	87	90	86	86	87	79
6218897	77	80	77	77	81	71
6218898	83	86	87	83	87	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Surrogate Quality Control

6218899	83	86	85	82	86	74
6218900	83	87	83	83	88	75
6218901	83	86	86	84	86	75
6218902	65	68	68	68	70	58
6218903	71	75	77	74	77	66
6218904	70	72	79	71	77	66
6218905	91	90	89	81	82	81
6218906	89	91	92	88	90	82
6218907	90	92	88	85	87	78
6218909	82	86	92	83	88	78
6218911	76	78	87	79	83	77
6218912	79	83	86	80	83	76
Blank	80	82	90	82	82	76
LCS	89	88	91	83	84	79
MS	89	91	92	88	90	82
MSD	90	92	88	85	87	78
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11063WAC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6218910	106	90	91
Blank	113	103	108
LCS	116	102	98
LCSD	112	98	97
Limits:	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11067SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6218894	102	94	111
6218895	104	92	107
6218896	105	93	109
6218897	96	91	100
6218898	111	99	94
6218899	96	89	101
6218900	91	85	95
6218901	96	90	100
6218902	98	84	82
6218903	134*	89	88
6218904	92	76	98
6218905	93	85	94
6218906	116	92	93
6218907	110	98	109
6218909	98	89	104
6218911	94	88	106
6218912	100	89	107
Blank	119	110	120
LCS	106	87	96
MS	116	92	93
MSD	110	98	109
Limits:	40-130	45-130	45-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Surrogate Quality Control

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110620021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6218910	89	90
Blank	91	85
LCS	96	90
LCSD	95	84
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 110620022A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6218910	105	108
Blank	111	112
LCS	113	111
LCSD	116	118
Limits:	52-141	40-144

Analysis Name: 12a Pesticides by 8081A
Batch number: 110630017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6218894	62	91
6218895	45*	142*
6218896	53	93
6218897	74	106
6218898	59	23
6218899	55	66
6218900	58	169*
6218901	50	83
6218902	101	466*
6218903	198*	385*
6218904	69	182*
6218905	46*	72
6218906	68	232*
6218907	70	102
6218909	81	137*
Blank	55	113
LCS	68	111
MS	67	233*
MSD	70	102
Limits:	50-130	20-120

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 110640003A

	2,4-Dichlorophenylacetic acid
6218910	85
Blank	89
LCS	105
MS	81

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Surrogate Quality Control

MSD	51	
Limits:	35-144	

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110690010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6218894	89	131*
6218895	84	149*
6218896	90	112
6218897	112	141*
6218898	108	125*
6218899	142*	197*
6218900	78	99
6218901	90	94
6218902	104	134*
6218903	76	91
6218904	99	4*
6218905	114	52
6218906	101	91
6218907	93	85
6218909	106	111
6218911	110	109
6218912	93	116
Blank	95	102
LCS	83	93
LCSD	79	96
MS	101	91
MSD	93	85
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110730019A

	2,4-Dichlorophenylacetic acid
6218894	86
6218895	84
6218896	101
6218897	74
6218898	92
6218899	129
6218900	93
6218901	106
6218902	77
6218903	78
6218904	140
6218905	84
6218906	92
6218907	93
6218909	98
Blank	96
LCS	86
MS	92
MSD	93

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235277
Reported: 03/29/11 at 01:55 PM

Surrogate Quality Control

Limits: 36-156

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1235277 sample# 6218894-913

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: **Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
DUP-06-SA5A-QC-030111	3.01.11	0900	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
DUP-06-SA5A-QC-030111	3.01.11	0900	SOIL	NONE	1-6 inch sleeve			X	X							
SL-066-SA5A-SS-0.0-0.5	3.01.11	1318	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-066-SA5A-SS-0.0-0.5	3.01.11	1318	SOIL	NONE	1-6 inch sleeve			X	X							
SL-072-SA5A-SS-0.0-0.5	3.01.11	0958	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-072-SA5A-SS-0.0-0.5	3.01.11	0958	SOIL	NONE	1-6 inch sleeve			X	X							
SL-076-SA5A-SS-0.0-0.5	3.01.11	1017	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-076-SA5A-SS-0.0-0.5	3.01.11	1017	SOIL	NONE	1-6 inch sleeve			X	X							
SL-077-SA5A-SS-0.0-0.5	3.01.11	1045	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-077-SA5A-SS-0.0-0.5	3.01.11	1045	SOIL	NONE	1-6 inch sleeve			X	X							
SL-078-SA5A-SS-0.0-0.5	3.01.11	1105	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-078-SA5A-SS-0.0-0.5	3.01.11	1105	SOIL	NONE	1-6 inch sleeve			X	X							
SL-103-SA5A-SS-0.0-0.5	3.01.11	1335	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-103-SA5A-SS-0.0-0.5	3.01.11	1335	SOIL	NONE	1-6 inch sleeve			X	X							
SL-104-SA5A-SS-0.0-0.5	3.01.11	1352	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-104-SA5A-SS-0.0-0.5	3.01.11	1352	SOIL	NONE	1-6 inch sleeve			X	X							
SL-191-SA5A-SS-0.0-0.5	3.01.11	1437	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-191-SA5A-SS-0.0-0.5	3.01.11	1437	SOIL	NONE	1-6 inch sleeve			X	X							
SL-194-SA5A-SS-0.0-0.3	3.01.11	1502	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-194-SA5A-SS-0.0-0.3	3.01.11	1502	SOIL	NONE	1-6 inch sleeve			X	X							
SL-195-SA5A-SS-0.0-0.2	3.01.11	1520	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-195-SA5A-SS-0.0-0.2	3.01.11	1520	SOIL	NONE	1-6 inch sleeve			X	X							
SL-256-SA5A-SS-0.0-0.5MS	3.01.11	0857	SOIL	NONE	2-16 oz jars	X	X			X	X	X		X	X	MS/MSD Sample
SL-256-SA5A-SS-0.0-0.5MS	3.01.11	0857	SOIL	NONE	2-6 inch sleeves			X	X							MS/MSD Sample
SL-257-SA5A-SS-0.0-0.5	3.01.11	0918	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-257-SA5A-SS-0.0-0.5	3.01.11	0918	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/01/2011 / 17:00	3/2/11 935	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8700 5935 3826; 8700 5935 3848 8700 5935 3860	

acct#13013 QP# 1235277 sample# 6218894-913

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								SS ONLY		Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
Samplers Signatures:																	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
EB04-SA5A-030111	3.01.11	1145	WATER	NONE	6-1 L ambers			X	X	X				X	X	Surface rinsate blank	
EB04-SA5A-030111	3.01.11	1145	WATER	HNO3	1-500 mL poly	X										Surface rinsate blank	
EB04-SA5A-030111	3.01.11	1145	WATER	NONE	1-500 mL poly		X				X	X				Surface rinsate blank	
Relinquished by: (*Signature*)	Date/Time 03/01/2011 / 17:00		Received for Laboratory by: (*Signature*) 3/2/11 935													Laboratory: Lancaster Laboratories, Inc.	
Received by: (*Signature*)	Date/Time		Airbill No(s) 8700 5935 3826; 8700 5935 3848 8700 5935 3860														

acct#13013 Ap#1235277 Sample#6218894-913

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
SAMPLE NUMBER		DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
SL-244-SA5A-SB-4.0-5.0		3.01.11	1042	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-244-SA5A-SB-4.5		3.01.11	1038	SOIL	NONE	4-Encores									X	X		
SL-244-SA5A-SB-9.0-10.0		3.01.11	1044	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
TB-030111		3.01.11	1630	WATER	HCl	3-40 mL VOA VIALS									X	X		TRIP BLANK
Relinquished by: (*Signature*)		Date/Time 03/01/2011 / 17:00		Received for Laboratory by: (*Signature*) Barry Herdt 3/2/11 935														Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)		Date/Time		Airbill No.(s) 8700 5935 3826; 8700 5935 3848 8700 5935 3860														

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 29, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/02/2011
Group Number: 1235278
SDG: DX059
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-06-SA5A-QC-030111 Soil	6218914
SL-066-SA5A-SS-0.0-0.5 Soil	6218915
SL-072-SA5A-SS-0.0-0.5 Soil	6218916
SL-076-SA5A-SS-0.0-0.5 Soil	6218917
SL-077-SA5A-SS-0.0-0.5 Soil	6218918
SL-078-SA5A-SS-0.0-0.5 Soil	6218919
SL-103-SA5A-SS-0.0-0.5 Soil	6218920
SL-104-SA5A-SS-0.0-0.5 Soil	6218921
SL-191-SA5A-SS-0.0-0.5 Soil	6218922
SL-194-SA5A-SS-0.0-0.3 Soil	6218923
SL-195-SA5A-SS-0.0-0.2 Soil	6218924
SL-256-SA5A-SS-0.0-0.5 Soil	6218925
SL-256-SA5A-SS-0.0-0.5MS Soil	6218926
SL-256-SA5A-SS-0.0-0.5MSD Soil	6218927
SL-257-SA5A-SS-0.0-0.5 Soil	6218928
EB04-SA5A-030111 Water	6218929
SL-244-SA5A-SB-4.0-5.0 Soil	6218930
SL-244-SA5A-SB-9.0-10.0 Soil	6218931

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **DUP-06-SA5A-QC-030111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-06-SA5A-QC-030111

LLI Sample # SW 6218914
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:00

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5901 SDG#: DX059-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-06-SA5A-QC-030111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-06-SA5A-QC-030111

LLI Sample # SW 6218914
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:00

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5901 SDG#: DX059-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0139 JQ	0.0109	1.13	1
11031	12378-PeCDD	40321-76-4	0.0430 JQ	0.0144	5.64	1
11031	123478-HxCDD	39227-28-6	0.0530 JBQ	0.0200	5.64	1
11031	123678-HxCDD	57653-85-7	0.146 JB	0.0211	5.64	1
11031	123789-HxCDD	19408-74-3	0.148 JB	0.0194	5.64	1
11031	1234678-HpCDD	35822-46-9	3.68 JB	0.0205	5.64	1
11031	OCDD	3268-87-9	42.9 B	0.0231	11.3	1
11031	2378-TCDF	51207-31-9	0.0634 JBQ	0.0381	1.13	1
11031	12378-PeCDF	57117-41-6	0.129 JBQ	0.0324	5.64	1
11031	23478-PeCDF	57117-31-4	0.227 JB	0.0306	5.64	1
11031	123478-HxCDF	70648-26-9	0.241 JBQ	0.0214	5.64	1
11031	123678-HxCDF	57117-44-9	0.0873 JB	0.0195	5.64	1
11031	123789-HxCDF	72918-21-9	0.0684 JB	0.0191	5.64	1
11031	234678-HxCDF	60851-34-5	0.134 JB	0.0193	5.64	1
11031	1234678-HpCDF	67562-39-4	0.769 JB	0.0111	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0832 JBQ	0.0117	5.64	1
11031	OCDF	39001-02-0	1.46 JB	0.0121	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	94	25 - 164
13C12-12378-PeCDD	99	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	92	17 - 157
13C12-1278-TCDD (CRS)	106	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-06-SA5A-QC-030111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-06-SA5A-QC-030111

LLI Sample # SW 6218914
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:00

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5901 SDG#: DX059-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-06-SA5A-QC-030111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-06-SA5A-QC-030111

LLI Sample # SW 6218914
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:00

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5901 SDG#: DX059-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/14/2011 19:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-066-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5A-SS-0.0-0.5

LLI Sample # SW 6218915
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5902 SDG#: DX059-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-066-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5A-SS-0.0-0.5

LLI Sample # SW 6218915
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5902 SDG#: DX059-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.407 J	0.0197	1.13	1
11031	12378-PeCDD	40321-76-4	3.55 J	0.0580	5.67	1
11031	123478-HxCDD	39227-28-6	7.09 B	0.0598	5.67	1
11031	123678-HxCDD	57653-85-7	24.0 B	0.0618	5.67	1
11031	123789-HxCDD	19408-74-3	15.3 B	0.0595	5.67	1
11031	1234678-HpCDD	35822-46-9	716 B	0.180	5.67	1
11031	OCDD	3268-87-9	24,200 EB	0.199	11.3	1
11031	2378-TCDF	51207-31-9	0.827 JB	0.0770	1.13	1
11031	12378-PeCDF	57117-41-6	1.30 JB	0.0383	5.67	1
11031	23478-PeCDF	57117-31-4	1.61 JB	0.0372	5.67	1
11031	123478-HxCDF	70648-26-9	3.59 JB	0.0414	5.67	1
11031	123678-HxCDF	57117-44-9	1.21 JB	0.0390	5.67	1
11031	123789-HxCDF	72918-21-9	0.772 JB	0.0392	5.67	1
11031	234678-HxCDF	60851-34-5	1.66 JB	0.0393	5.67	1
11031	1234678-HpCDF	67562-39-4	40.5 B	0.0395	5.67	1
11031	1234789-HpCDF	55673-89-7	1.96 JB	0.0472	5.67	1
11031	OCDF	39001-02-0	167 B	0.0359	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	78	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: **SL-066-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5A-SS-0.0-0.5

LLI Sample # SW 6218915
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5902 SDG#: DX059-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	81	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-066-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5A-SS-0.0-0.5

LLI Sample # SW 6218915
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5902 SDG#: DX059-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/14/2011 20:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-072-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SS-0.0-0.5

LLI Sample # SW 6218916
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:58

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5903 SDG#: DX059-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SS-0.0-0.5

LLI Sample # SW 6218916
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:58

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5903 SDG#: DX059-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0589	J	0.00999	1.12	1
11031	12378-PeCDD	40321-76-4	0.288	J	0.0181	5.61	1
11031	123478-HxCDD	39227-28-6	0.431	JB	0.0256	5.61	1
11031	123678-HxCDD	57653-85-7	0.983	JB	0.0259	5.61	1
11031	123789-HxCDD	19408-74-3	0.995	JB	0.0249	5.61	1
11031	1234678-HpCDD	35822-46-9	24.1	B	0.0366	5.61	1
11031	OCDD	3268-87-9	494	B	0.0379	11.2	1
11031	2378-TCDF	51207-31-9	0.0627	JB	0.0157	1.12	1
11031	12378-PeCDF	57117-41-6	0.0670	JBQ	0.0109	5.61	1
11031	23478-PeCDF	57117-31-4	0.237	JB	0.0108	5.61	1
11031	123478-HxCDF	70648-26-9	0.287	JB	0.0244	5.61	1
11031	123678-HxCDF	57117-44-9	0.173	JB	0.0205	5.61	1
11031	123789-HxCDF	72918-21-9	0.132	JB	0.0196	5.61	1
11031	234678-HxCDF	60851-34-5	0.326	JB	0.0193	5.61	1
11031	1234678-HpCDF	67562-39-4	2.35	JB	0.0202	5.61	1
11031	1234789-HpCDF	55673-89-7	0.208	JBQ	0.0233	5.61	1
11031	OCDF	39001-02-0	5.05	JB	0.0251	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-072-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SS-0.0-0.5

LLI Sample # SW 6218916
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:58

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5903 SDG#: DX059-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-072-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SS-0.0-0.5

LLI Sample # SW 6218916
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:58

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5903 SDG#: DX059-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/15/2011 18:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SS-0.0-0.5

LLI Sample # SW 6218917
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:17

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5904 SDG#: DX059-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-076-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SS-0.0-0.5

LLI Sample # SW 6218917
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:17

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5904 SDG#: DX059-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.124	J	0.0118	1.08	1
11031	12378-PeCDD	40321-76-4	1.11	J	0.0288	5.41	1
11031	123478-HxCDD	39227-28-6	2.03	JB	0.0392	5.41	1
11031	123678-HxCDD	57653-85-7	4.52	JB	0.0385	5.41	1
11031	123789-HxCDD	19408-74-3	4.17	JB	0.0330	5.41	1
11031	1234678-HpCDD	35822-46-9	147	B	0.0858	5.41	1
11031	OCDD	3268-87-9	2,790	B	0.109	10.8	1
11031	2378-TCDF	51207-31-9	0.114	JB	0.0213	1.08	1
11031	12378-PeCDF	57117-41-6	0.163	JB	0.0144	5.41	1
11031	23478-PeCDF	57117-31-4	0.444	JB	0.0141	5.41	1
11031	123478-HxCDF	70648-26-9	1.01	JB	0.0435	5.41	1
11031	123678-HxCDF	57117-44-9	0.730	JB	0.0333	5.41	1
11031	123789-HxCDF	72918-21-9	0.342	JB	0.0241	5.41	1
11031	234678-HxCDF	60851-34-5	0.682	JB	0.0246	5.41	1
11031	1234678-HpCDF	67562-39-4	13.6	B	0.0415	5.41	1
11031	1234789-HpCDF	55673-89-7	1.08	JB	0.0324	5.41	1
11031	OCDF	39001-02-0	38.3	B	0.0235	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SS-0.0-0.5

LLI Sample # SW 6218917
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:17

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5904 SDG#: DX059-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SS-0.0-0.5

LLI Sample # SW 6218917
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:17

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5904 SDG#: DX059-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/14/2011 22:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-077-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5A-SS-0.0-0.5

LLI Sample # SW 6218918
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5905 SDG#: DX059-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-077-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5A-SS-0.0-0.5

LLI Sample # SW 6218918
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5905 SDG#: DX059-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0286	JQ	0.00901	1.17	1
11031	12378-PeCDD	40321-76-4	0.189	J	0.0170	5.85	1
11031	123478-HxCDD	39227-28-6	0.194	JB	0.0195	5.85	1
11031	123678-HxCDD	57653-85-7	2.52	JB	0.0200	5.85	1
11031	123789-HxCDD	19408-74-3	3.82	JB	0.0192	5.85	1
11031	1234678-HpCDD	35822-46-9	7.24	B	0.0206	5.85	1
11031	OCDD	3268-87-9	116	B	0.0222	11.7	1
11031	2378-TCDF	51207-31-9	0.0121	JB	0.00772	1.17	1
11031	12378-PeCDF	57117-41-6	0.0356	JBQ	0.00538	5.85	1
11031	23478-PeCDF	57117-31-4	0.0828	JB	0.00561	5.85	1
11031	123478-HxCDF	70648-26-9	0.104	JB	0.0146	5.85	1
11031	123678-HxCDF	57117-44-9	0.734	JB	0.0125	5.85	1
11031	123789-HxCDF	72918-21-9	0.103	JBQ	0.0154	5.85	1
11031	234678-HxCDF	60851-34-5	0.134	JBQ	0.0127	5.85	1
11031	1234678-HpCDF	67562-39-4	0.706	JB	0.0122	5.85	1
11031	1234789-HpCDF	55673-89-7	0.0936	JB	0.0194	5.85	1
11031	OCDF	39001-02-0	1.17	JBQ	0.0199	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-077-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5A-SS-0.0-0.5

LLI Sample # SW 6218918
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5905 SDG#: DX059-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-077-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5A-SS-0.0-0.5

LLI Sample # SW 6218918
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5905 SDG#: DX059-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/15/2011 19:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-078-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5A-SS-0.0-0.5

LLI Sample # SW 6218919
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:05

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5906 SDG#: DX059-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-078-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5A-SS-0.0-0.5

LLI Sample # SW 6218919
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:05

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5906 SDG#: DX059-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0849	J	0.0134	1.12	1
11031	12378-PeCDD	40321-76-4	0.594	JQ	0.0308	5.59	1
11031	123478-HxCDD	39227-28-6	0.972	JBQ	0.0400	5.59	1
11031	123678-HxCDD	57653-85-7	2.03	JB	0.0410	5.59	1
11031	123789-HxCDD	19408-74-3	2.06	JB	0.0377	5.59	1
11031	1234678-HpCDD	35822-46-9	58.2	B	0.0655	5.59	1
11031	OCDD	3268-87-9	1,030	B	0.104	11.2	1
11031	2378-TCDF	51207-31-9	0.0712	JB	0.0190	1.12	1
11031	12378-PeCDF	57117-41-6	0.133	JB	0.0131	5.59	1
11031	23478-PeCDF	57117-31-4	0.295	JB	0.0120	5.59	1
11031	123478-HxCDF	70648-26-9	0.557	JB	0.0370	5.59	1
11031	123678-HxCDF	57117-44-9	0.389	JB	0.0302	5.59	1
11031	123789-HxCDF	72918-21-9	0.206	JB	0.0266	5.59	1
11031	234678-HxCDF	60851-34-5	0.427	JB	0.0250	5.59	1
11031	1234678-HpCDF	67562-39-4	6.58	B	0.0356	5.59	1
11031	1234789-HpCDF	55673-89-7	0.603	JB	0.0354	5.59	1
11031	OCDF	39001-02-0	18.1	B	0.0325	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-078-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5A-SS-0.0-0.5

LLI Sample # SW 6218919
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:05

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5906 SDG#: DX059-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-078-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5A-SS-0.0-0.5

LLI Sample # SW 6218919
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:05

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5906 SDG#: DX059-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/15/2011 00:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-103-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5A-SS-0.0-0.5

LLI Sample # SW 6218920
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:35

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5907 SDG#: DX059-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	21.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5A-SS-0.0-0.5

LLI Sample # SW 6218920
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:35

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5907 SDG#: DX059-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.176	J	0.0203	1.27	1
11031	12378-PeCDD	40321-76-4	1.16	J	0.0473	6.35	1
11031	123478-HxCDD	39227-28-6	1.85	JB	0.0412	6.35	1
11031	123678-HxCDD	57653-85-7	4.32	JB	0.0424	6.35	1
11031	123789-HxCDD	19408-74-3	3.60	JB	0.0407	6.35	1
11031	1234678-HpCDD	35822-46-9	110	B	0.101	6.35	1
11031	OCDD	3268-87-9	2,320	B	0.0873	12.7	1
11031	2378-TCDF	51207-31-9	0.504	JB	0.0693	1.27	1
11031	12378-PeCDF	57117-41-6	0.714	JB	0.0359	6.35	1
11031	23478-PeCDF	57117-31-4	0.921	JB	0.0365	6.35	1
11031	123478-HxCDF	70648-26-9	1.07	JB	0.0463	6.35	1
11031	123678-HxCDF	57117-44-9	0.628	JB	0.0404	6.35	1
11031	123789-HxCDF	72918-21-9	0.269	JB	0.0484	6.35	1
11031	234678-HxCDF	60851-34-5	0.722	JB	0.0426	6.35	1
11031	1234678-HpCDF	67562-39-4	9.33	B	0.0372	6.35	1
11031	1234789-HpCDF	55673-89-7	0.652	JB	0.0505	6.35	1
11031	OCDF	39001-02-0	27.7	B	0.0324	12.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-103-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5A-SS-0.0-0.5

LLI Sample # SW 6218920
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:35

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5907 SDG#: DX059-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-103-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5A-SS-0.0-0.5

LLI Sample # SW 6218920
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:35

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5907 SDG#: DX059-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/15/2011 00:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-104-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5A-SS-0.0-0.5

LLI Sample # SW 6218921
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:52

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5908 SDG#: DX059-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-104-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5A-SS-0.0-0.5

LLI Sample # SW 6218921
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:52

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5908 SDG#: DX059-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.239	J	0.0230	1.19	1
11031	12378-PeCDD	40321-76-4	1.55	J	0.0525	5.94	1
11031	123478-HxCDD	39227-28-6	2.56	JB	0.0531	5.94	1
11031	123678-HxCDD	57653-85-7	5.73	JB	0.0562	5.94	1
11031	123789-HxCDD	19408-74-3	5.36	JB	0.0517	5.94	1
11031	1234678-HpCDD	35822-46-9	159	B	0.128	5.94	1
11031	OCDD	3268-87-9	3,590	B	0.142	11.9	1
11031	2378-TCDF	51207-31-9	0.361	JB	0.0558	1.19	1
11031	12378-PeCDF	57117-41-6	0.348	JB	0.0352	5.94	1
11031	23478-PeCDF	57117-31-4	0.777	JB	0.0335	5.94	1
11031	123478-HxCDF	70648-26-9	1.02	JB	0.0563	5.94	1
11031	123678-HxCDF	57117-44-9	0.514	JB	0.0489	5.94	1
11031	123789-HxCDF	72918-21-9	0.290	JBQ	0.0485	5.94	1
11031	234678-HxCDF	60851-34-5	0.699	JB	0.0462	5.94	1
11031	1234678-HpCDF	67562-39-4	10.8	B	0.0355	5.94	1
11031	1234789-HpCDF	55673-89-7	0.690	JB	0.0420	5.94	1
11031	OCDF	39001-02-0	36.5	B	0.0279	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	82	17 - 157
13C12-1278-TCDD (CRS)	106	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-104-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5A-SS-0.0-0.5

LLI Sample # SW 6218921
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:52

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5908 SDG#: DX059-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-104-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5A-SS-0.0-0.5

LLI Sample # SW 6218921
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 13:52

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5908 SDG#: DX059-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/15/2011 04:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-191-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5A-SS-0.0-0.5

LLI Sample # SW 6218922
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 14:37

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5909 SDG#: DX059-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	21.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-191-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5A-SS-0.0-0.5

LLI Sample # SW 6218922
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 14:37

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5909 SDG#: DX059-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.655 JB	0.207	1.27	1
11031	12378-PeCDD	40321-76-4	4.38 J	0.304	6.34	1
11031	123478-HxCDD	39227-28-6	8.95 B	0.478	6.34	1
11031	123678-HxCDD	57653-85-7	29.1 B	0.507	6.34	1
11031	123789-HxCDD	19408-74-3	14.0 B	0.472	6.34	1
11031	1234678-HpCDD	35822-46-9	975 B	1.22	6.34	1
11031	OCDD	3268-87-9	16,400 EB	2.52	12.7	1
11031	2378-TCDF	51207-31-9	11.5	0.515	1.27	1
11650	2378-TCDF-Conf	51207-31-9	10.4 B	0.0987	1.27	1
11031	12378-PeCDF	57117-41-6	7.21 B	0.336	6.34	1
11031	23478-PeCDF	57117-31-4	17.3 B	0.312	6.34	1
11031	123478-HxCDF	70648-26-9	21.5 B	0.726	6.34	1
11031	123678-HxCDF	57117-44-9	7.07 B	0.594	6.34	1
11031	123789-HxCDF	72918-21-9	3.98 JB	0.423	6.34	1
11031	234678-HxCDF	60851-34-5	8.07 B	0.393	6.34	1
11031	1234678-HpCDF	67562-39-4	97.5 B	0.793	6.34	1
11031	1234789-HpCDF	55673-89-7	6.43 B	0.592	6.34	1
11031	OCDF	39001-02-0	218 B	0.508	12.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	89	25 - 164
13C12-2378-TCDF-Conf	86	24 - 169
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	96	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	96	21 - 178
13C12-123478-HxCDF	51	26 - 152

*=This limit was used in the evaluation of the final result

Sample Description: **SL-191-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5A-SS-0.0-0.5

LLI Sample # SW 6218922
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 14:37

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5909 SDG#: DX059-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds	**%Rec**	**Windows**				
13C12-123678-HxCDF	58	26 - 123				
13C12-234678-HxCDF	90	28 - 136				
13C12-123789-HxCDF	91	29 - 147				
13C12-1234678-HpCDF	55	28 - 143				
13C12-1234789-HpCDF	81	26 - 138				
13C12-OCDF	75	17 - 157				
13C12-1278-TCDD (CRS)	94	35 - 197				

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-191-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5A-SS-0.0-0.5

LLI Sample # SW 6218922
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 14:37

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5909 SDG#: DX059-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11081001	03/24/2011 05:37	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11081001	03/28/2011 20:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11081001	03/22/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-194-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5A-SS-0.0-0.3

LLI Sample # SW 6218923
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:02

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5910 SDG#: DX059-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-194-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5A-SS-0.0-0.3

LLI Sample # SW 6218923
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:02

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5910 SDG#: DX059-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.22		0.0448	1.19	1
11031	12378-PeCDD	40321-76-4	5.85	J	0.0926	5.97	1
11031	123478-HxCDD	39227-28-6	9.43	B	0.0958	5.97	1
11031	123678-HxCDD	57653-85-7	38.1	B	0.0994	5.97	1
11031	123789-HxCDD	19408-74-3	18.4	B	0.0875	5.97	1
11031	1234678-HpCDD	35822-46-9	719	B	0.243	5.97	1
11031	OCDD	3268-87-9	6,000	EB	0.238	11.9	1
11031	2378-TCDF	51207-31-9	1.43	B	0.0668	1.19	1
11650	2378-TCDF-Conf	51207-31-9	1.72		0.0491	1.19	1
11031	12378-PeCDF	57117-41-6	4.72	JB	0.0490	5.97	1
11031	23478-PeCDF	57117-31-4	10.6	B	0.0513	5.97	1
11031	123478-HxCDF	70648-26-9	17.9	B	0.128	5.97	1
11031	123678-HxCDF	57117-44-9	7.96	B	0.120	5.97	1
11031	123789-HxCDF	72918-21-9	6.86	B	0.0748	5.97	1
11031	234678-HxCDF	60851-34-5	8.26	B	0.0824	5.97	1
11031	1234678-HpCDF	67562-39-4	111	B	0.141	5.97	1
11031	1234789-HpCDF	55673-89-7	4.82	JB	0.124	5.97	1
11031	OCDF	39001-02-0	77.7	B	0.110	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-2378-TCDF-Conf	74	24 - 169
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-194-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5A-SS-0.0-0.3

LLI Sample # SW 6218923
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:02

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5910 SDG#: DX059-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-194-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5A-SS-0.0-0.3

LLI Sample # SW 6218923
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:02

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5910 SDG#: DX059-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/15/2011 06:51	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11069001	03/25/2011 18:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5A-SS-0.0-0.2 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5A-SS-0.0-0.2

LLI Sample # SW 6218924
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:20

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5911 SDG#: DX059-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	28.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5A-SS-0.0-0.2 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5A-SS-0.0-0.2

LLI Sample # SW 6218924
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:20

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5911 SDG#: DX059-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.828	J	0.0388	1.40	1
11031	12378-PeCDD	40321-76-4	2.22	J	0.0822	7.00	1
11031	123478-HxCDD	39227-28-6	2.67	JB	0.101	7.00	1
11031	123678-HxCDD	57653-85-7	6.92	JB	0.0895	7.00	1
11031	123789-HxCDD	19408-74-3	5.34	JB	0.0790	7.00	1
11031	1234678-HpCDD	35822-46-9	201	B	0.183	7.00	1
11031	OCDD	3268-87-9	3,770	B	0.252	14.0	1
11031	2378-TCDF	51207-31-9	0.333	JB	0.0636	1.40	1
11031	12378-PeCDF	57117-41-6	0.506	JB	0.0493	7.00	1
11031	23478-PeCDF	57117-31-4	1.54	JB	0.0461	7.00	1
11031	123478-HxCDF	70648-26-9	2.30	JB	0.121	7.00	1
11031	123678-HxCDF	57117-44-9	1.38	JB	0.0889	7.00	1
11031	123789-HxCDF	72918-21-9	0.816	JB	0.0564	7.00	1
11031	234678-HxCDF	60851-34-5	1.68	JB	0.0536	7.00	1
11031	1234678-HpCDF	67562-39-4	21.4	B	0.167	7.00	1
11031	1234789-HpCDF	55673-89-7	1.66	JB	0.115	7.00	1
11031	OCDF	39001-02-0	49.9	B	0.111	14.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	31	26 - 152
13C12-123678-HxCDF	42	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	41	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5A-SS-0.0-0.2 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5A-SS-0.0-0.2

LLI Sample # SW 6218924
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:20

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5911 SDG#: DX059-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5A-SS-0.0-0.2 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5A-SS-0.0-0.2

LLI Sample # SW 6218924
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 15:20

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5911 SDG#: DX059-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/15/2011 07:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-256-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218925
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5912 SDG#: DX059-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-256-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218925
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5912 SDG#: DX059-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0156	JQ	0.00836	1.13	1
11031	12378-PeCDD	40321-76-4	0.0557	JQ	0.0127	5.65	1
11031	123478-HxCDD	39227-28-6	0.0417	JB	0.0202	5.65	1
11031	123678-HxCDD	57653-85-7	0.162	JB	0.0205	5.65	1
11031	123789-HxCDD	19408-74-3	0.142	JB	0.0192	5.65	1
11031	1234678-HpCDD	35822-46-9	4.44	JB	0.0191	5.65	1
11031	OCDD	3268-87-9	55.2	B	0.0226	11.3	1
11031	2378-TCDF	51207-31-9	0.133	JB	0.0416	1.13	1
11031	12378-PeCDF	57117-41-6	0.137	JBQ	0.0250	5.65	1
11031	23478-PeCDF	57117-31-4	0.291	JB	0.0241	5.65	1
11031	123478-HxCDF	70648-26-9	0.429	JB	0.0253	5.65	1
11031	123678-HxCDF	57117-44-9	0.173	JBQ	0.0211	5.65	1
11031	123789-HxCDF	72918-21-9	0.0832	JB	0.0218	5.65	1
11031	234678-HxCDF	60851-34-5	0.164	JB	0.0200	5.65	1
11031	1234678-HpCDF	67562-39-4	0.966	JB	0.0180	5.65	1
11031	1234789-HpCDF	55673-89-7	0.165	JBQ	0.0223	5.65	1
11031	OCDF	39001-02-0	2.02	JB	0.0190	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-256-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218925
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5912 SDG#: DX059-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-256-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218925
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5912 SDG#: DX059-12BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/15/2011 20:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-256-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218926
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5912 SDG#: DX059-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-256-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218926
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5912 SDG#: DX059-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.1		0.0195	1.13	1
11031	12378-PeCDD	40321-76-4	109		0.0318	5.65	1
11031	123478-HxCDD	39227-28-6	111	B	0.0547	5.65	1
11031	123678-HxCDD	57653-85-7	109	B	0.0533	5.65	1
11031	123789-HxCDD	19408-74-3	108	B	0.0497	5.65	1
11031	1234678-HpCDD	35822-46-9	113	B	0.0539	5.65	1
11031	OCDD	3268-87-9	323	B	0.0544	11.3	1
11031	2378-TCDF	51207-31-9	21.7	B	0.0479	1.13	1
11031	12378-PeCDF	57117-41-6	103	B	0.0423	5.65	1
11031	23478-PeCDF	57117-31-4	103	B	0.0409	5.65	1
11031	123478-HxCDF	70648-26-9	108	B	0.0670	5.65	1
11031	123678-HxCDF	57117-44-9	107	B	0.0510	5.65	1
11031	123789-HxCDF	72918-21-9	107	B	0.0503	5.65	1
11031	234678-HxCDF	60851-34-5	109	B	0.0459	5.65	1
11031	1234678-HpCDF	67562-39-4	109	B	0.0536	5.65	1
11031	1234789-HpCDF	55673-89-7	107	B	0.0629	5.65	1
11031	OCDF	39001-02-0	218	B	0.0542	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-256-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218926
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5912 SDG#: DX059-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-256-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218926
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5912 SDG#: DX059-12MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/15/2011 09:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-256-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218927
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5912 SDG#: DX059-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-256-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218927
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5912 SDG#: DX059-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.6		0.0212	1.13	1
11031	12378-PeCDD	40321-76-4	109		0.0224	5.65	1
11031	123478-HxCDD	39227-28-6	109	B	0.0293	5.65	1
11031	123678-HxCDD	57653-85-7	110	B	0.0289	5.65	1
11031	123789-HxCDD	19408-74-3	107	B	0.0251	5.65	1
11031	1234678-HpCDD	35822-46-9	112	B	0.0459	5.65	1
11031	OCDD	3268-87-9	272	B	0.0496	11.3	1
11031	2378-TCDF	51207-31-9	22.0	B	0.0459	1.13	1
11031	12378-PeCDF	57117-41-6	106	B	0.0453	5.65	1
11031	23478-PeCDF	57117-31-4	105	B	0.0461	5.65	1
11031	123478-HxCDF	70648-26-9	109	B	0.0541	5.65	1
11031	123678-HxCDF	57117-44-9	108	B	0.0454	5.65	1
11031	123789-HxCDF	72918-21-9	107	B	0.0419	5.65	1
11031	234678-HxCDF	60851-34-5	109	B	0.0371	5.65	1
11031	1234678-HpCDF	67562-39-4	108	B	0.0505	5.65	1
11031	1234789-HpCDF	55673-89-7	108	B	0.0539	5.65	1
11031	OCDF	39001-02-0	215	B	0.0468	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-256-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218927
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5912 SDG#: DX059-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-256-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-256-SA5A-SS-0.0-0.5

LLI Sample # SW 6218927
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 08:57

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5912 SDG#: DX059-12MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/15/2011 10:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-257-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SS-0.0-0.5

LLI Sample # SW 6218928
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5913 SDG#: DX059-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-257-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SS-0.0-0.5

LLI Sample # SW 6218928
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5913 SDG#: DX059-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.113	J	0.0354	1.12	1
11031	12378-PeCDD	40321-76-4	0.200	J	0.0515	5.62	1
11031	123478-HxCDD	39227-28-6	0.186	JBQ	0.0613	5.62	1
11031	123678-HxCDD	57653-85-7	0.483	JBQ	0.0628	5.62	1
11031	123789-HxCDD	19408-74-3	0.307	JBQ	0.0560	5.62	1
11031	1234678-HpCDD	35822-46-9	12.4	B	0.0899	5.62	1
11031	OCDD	3268-87-9	120	B	0.141	11.2	1
11031	2378-TCDF	51207-31-9	0.0995	JBQ	0.0688	1.12	1
11031	12378-PeCDF	57117-41-6	0.183	JBQ	0.0575	5.62	1
11031	23478-PeCDF	57117-31-4	0.662	JB	0.0520	5.62	1
11031	123478-HxCDF	70648-26-9	0.414	JBQ	0.0757	5.62	1
11031	123678-HxCDF	57117-44-9	0.387	JBQ	0.0702	5.62	1
11031	123789-HxCDF	72918-21-9	0.341	JB	0.0666	5.62	1
11031	234678-HxCDF	60851-34-5	0.409	JB	0.0604	5.62	1
11031	1234678-HpCDF	67562-39-4	1.76	JB	0.0691	5.62	1
11031	1234789-HpCDF	55673-89-7	0.282	JBQ	0.0722	5.62	1
11031	OCDF	39001-02-0	3.28	JB	0.0722	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-257-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SS-0.0-0.5

LLI Sample # SW 6218928
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5913 SDG#: DX059-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-257-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SS-0.0-0.5

LLI Sample # SW 6218928
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 09:18

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5913 SDG#: DX059-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/15/2011 11:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

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Analysis Report

Sample Description: **EB04-SA5A-030111 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5A-030111

LLI Sample # WW 6218929
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5914 SDG#: DX059-14EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**pg/l**	**pg/l**	**pg/l**	
10915	2378-TCDD	1746-01-6	0.0782 U	0.0782	2.08	1
10915	12378-PeCDD	40321-76-4	0.142 JBQ	0.111	10.4	1
10915	123478-HxCDD	39227-28-6	0.123 JBQ	0.101	10.4	1
10915	123678-HxCDD	57653-85-7	0.218 JBQ	0.0946	10.4	1
10915	123789-HxCDD	19408-74-3	0.225 JBQ	0.0847	10.4	1
10915	1234678-HpCDD	35822-46-9	2.36 JB	0.115	10.4	1
10915	OCDD	3268-87-9	6.31 JB	0.122	20.8	1
10915	2378-TCDF	51207-31-9	0.0657 U	0.0657	2.08	1
10915	12378-PeCDF	57117-41-6	0.161 JBQ	0.0576	10.4	1
10915	23478-PeCDF	57117-31-4	0.577 JB	0.0550	10.4	1
10915	123478-HxCDF	70648-26-9	0.648 JB	0.170	10.4	1
10915	123678-HxCDF	57117-44-9	0.647 JB	0.124	10.4	1
10915	123789-HxCDF	72918-21-9	0.384 JBQ	0.0786	10.4	1
10915	234678-HxCDF	60851-34-5	0.810 JB	0.0805	10.4	1
10915	1234678-HpCDF	67562-39-4	3.65 JB	0.116	10.4	1
10915	1234789-HpCDF	55673-89-7	0.481 JB	0.0859	10.4	1
10915	OCDF	39001-02-0	2.00 JB	0.113	20.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	57	32 - 141
13C12-123678-HxCDD	62	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	61	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	38	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB04-SA5A-030111 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5A-030111

LLI Sample # WW 6218929
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 11:45

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5914 SDG#: DX059-14EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066002	03/11/2011 21:17	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11066002	03/08/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-244-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-4.0-5.0

LLI Sample # SW 6218930
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:42

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5915 SDG#: DX059-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-244-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-4.0-5.0

LLI Sample # SW 6218930
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:42

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5915 SDG#: DX059-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0103	U	0.0103	1.15	1
11031	12378-PeCDD	40321-76-4	0.0365	JQ	0.0125	5.73	1
11031	123478-HxCDD	39227-28-6	0.0436	JB	0.0144	5.73	1
11031	123678-HxCDD	57653-85-7	0.0583	JB	0.0147	5.73	1
11031	123789-HxCDD	19408-74-3	0.0544	JBQ	0.0141	5.73	1
11031	1234678-HpCDD	35822-46-9	0.411	JBQ	0.0208	5.73	1
11031	OCDD	3268-87-9	1.28	JBQ	0.0282	11.5	1
11031	2378-TCDF	51207-31-9	0.0196	JBQ	0.00997	1.15	1
11031	12378-PeCDF	57117-41-6	0.0476	JBQ	0.00848	5.73	1
11031	23478-PeCDF	57117-31-4	0.142	JB	0.00836	5.73	1
11031	123478-HxCDF	70648-26-9	0.166	JB	0.0197	5.73	1
11031	123678-HxCDF	57117-44-9	0.140	JB	0.0171	5.73	1
11031	123789-HxCDF	72918-21-9	0.112	JB	0.0205	5.73	1
11031	234678-HxCDF	60851-34-5	0.254	JBQ	0.0165	5.73	1
11031	1234678-HpCDF	67562-39-4	0.929	JB	0.0133	5.73	1
11031	1234789-HpCDF	55673-89-7	0.133	JB	0.0190	5.73	1
11031	OCDF	39001-02-0	0.627	JB	0.0324	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-244-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-4.0-5.0

LLI Sample # SW 6218930
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:42

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5915 SDG#: DX059-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-244-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-4.0-5.0

LLI Sample # SW 6218930
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:42

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5915 SDG#: DX059-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/15/2011 12:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-244-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-9.0-10.0

LLI Sample # SW 6218931
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:44

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5916 SDG#: DX059-16*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-244-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-9.0-10.0

LLI Sample # SW 6218931
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:44

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5916 SDG#: DX059-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0195	JQ	0.00979	1.17	1
11031	12378-PeCDD	40321-76-4	0.0560	JQ	0.0103	5.83	1
11031	123478-HxCDD	39227-28-6	0.0262	JBQ	0.0114	5.83	1
11031	123678-HxCDD	57653-85-7	0.0556	JBQ	0.0121	5.83	1
11031	123789-HxCDD	19408-74-3	0.0619	JB	0.0108	5.83	1
11031	1234678-HpCDD	35822-46-9	0.436	JBQ	0.0197	5.83	1
11031	OCDD	3268-87-9	4.81	JB	0.0200	11.7	1
11031	2378-TCDF	51207-31-9	0.0182	JBQ	0.00921	1.17	1
11031	12378-PeCDF	57117-41-6	0.0649	JBQ	0.00699	5.83	1
11031	23478-PeCDF	57117-31-4	0.160	JB	0.00746	5.83	1
11031	123478-HxCDF	70648-26-9	0.183	JB	0.0199	5.83	1
11031	123678-HxCDF	57117-44-9	0.122	JB	0.0172	5.83	1
11031	123789-HxCDF	72918-21-9	0.0768	JB	0.0212	5.83	1
11031	234678-HxCDF	60851-34-5	0.268	JB	0.0168	5.83	1
11031	1234678-HpCDF	67562-39-4	0.758	JB	0.0101	5.83	1
11031	1234789-HpCDF	55673-89-7	0.105	JBQ	0.0175	5.83	1
11031	OCDF	39001-02-0	0.734	JBQ	0.0225	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-244-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-9.0-10.0

LLI Sample # SW 6218931
LLI Group # 1235278
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/01/2011 10:44

Submitted: 03/02/2011 09:35
Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5916 SDG#: DX059-16*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-244-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-244-SA5A-SB-9.0-10.0

LLI Sample # SW 6218931
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Reported: 03/29/2011 20:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5916 SDG#: DX059-16*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11069001	03/15/2011 13:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11069001	03/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11068162401B	03/09/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235278
Reported: 03/29/11 at 08:45 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11068162401B	Sample number(s): 6218914-6218928,6218930-6218931								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11066002	Sample number(s): 6218929								
2378-TCDD	0.156 U	0.156	2.00	pg/l	84		67-158		
12378-PeCDD	0.374 J	0.195	10.0	pg/l	87		70-142		
123478-HxCDD	0.576 J	0.162	10.0	pg/l	89		70-164		
123678-HxCDD	0.332 J	0.169	10.0	pg/l	88		76-134		
123789-HxCDD	0.634 J	0.156	10.0	pg/l	87		64-162		
1234678-HpCDD	3.30 J	0.199	10.0	pg/l	90		70-140		
OCDD	6.88 J	0.265	20.0	pg/l	94		78-144		
2378-TCDF	0.158 J	0.112	2.00	pg/l	87		75-158		
12378-PeCDF	0.528 J	0.110	10.0	pg/l	83		80-134		
23478-PeCDF	1.10 J	0.101	10.0	pg/l	83		68-160		
123478-HxCDF	1.04 J	0.207	10.0	pg/l	88		72-134		
123678-HxCDF	1.11 J	0.189	10.0	pg/l	89		84-130		
123789-HxCDF	1.20 J	0.196	10.0	pg/l	87		78-130		
234678-HxCDF	1.70 J	0.180	10.0	pg/l	88		70-156		
1234678-HpCDF	6.54 J	0.182	10.0	pg/l	93		82-122		
1234789-HpCDF	1.19 J	0.205	10.0	pg/l	90		78-138		
OCDF	4.19 J	0.234	20.0	pg/l	92		63-170		
Batch number: 11069001	Sample number(s): 6218914-6218921,6218923-6218928,6218930-6218931								
2378-TCDD	0.00880 U	0.00880	1.00	ng/kg	100		67-158		
12378-PeCDD	0.00870 U	0.00870	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0195 J	0.0101	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0216 J	0.00990	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0205 J	0.00970	5.00	ng/kg	98		64-162		
1234678-HpCDD	0.205 J	0.0133	5.00	ng/kg	99		70-140		
OCDD	0.465 J	0.0123	10.0	ng/kg	99		78-144		
2378-TCDF	0.00943 J	0.00880	1.00	ng/kg	108		75-158		
2378-TCDF-Conf	0.0286 J	0.0102	1.00	ng/kg					
12378-PeCDF	0.0192 J	0.00540	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0672 J	0.00540	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0629 J	0.0107	5.00	ng/kg	101		72-134		
123678-HxCDF	0.0492 J	0.00940	5.00	ng/kg	99		84-130		
123789-HxCDF	0.0452 J	0.0101	5.00	ng/kg	100		78-130		
234678-HxCDF	0.102 J	0.00990	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.317 J	0.00780	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.0553 J	0.0107	5.00	ng/kg	100		78-138		
OCDF	0.286 J	0.0127	10.0	ng/kg	99		63-170		
Batch number: 11081001	Sample number(s): 6218922								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235278
Reported: 03/29/11 at 08:45 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
2378-TCDD	0.0184 J	0.0179	1.00	ng/kg	92		67-158		
12378-PeCDD	0.0163 U	0.0163	5.00	ng/kg	94		70-142		
123478-HxCDD	0.0348 J	0.0205	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0288 J	0.0176	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0417 J	0.0139	5.00	ng/kg	96		64-162		
1234678-HpCDD	0.175 J	0.0165	5.00	ng/kg	94		70-140		
OCDD	0.381 J	0.0195	10.0	ng/kg	96		78-144		
2378-TCDF	0.0177 U	0.0177	1.00	ng/kg	100		75-158		
2378-TCDF-Conf	0.0404 J	0.0275	1.00	ng/kg					
12378-PeCDF	0.0391 J	0.00900	5.00	ng/kg	94		80-134		
23478-PeCDF	0.0620 J	0.00980	5.00	ng/kg	94		68-160		
123478-HxCDF	0.110 J	0.0319	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0861 J	0.0222	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0340 J	0.0106	5.00	ng/kg	92		78-130		
234678-HxCDF	0.0728 J	0.00970	5.00	ng/kg	95		70-156		
1234678-HpCDF	0.406 J	0.0203	5.00	ng/kg	94		82-122		
1234789-HpCDF	0.0589 J	0.0116	5.00	ng/kg	94		78-138		
OCDF	0.252 J	0.0288	10.0	ng/kg	95		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11068162401B	Sample number(s): 6218914-6218928,6218930-6218931					BKG: P218905			
Moisture Content by 160.3						11.5	11.6	1	20
Batch number: 11069001	Sample number(s): 6218914-6218921,6218923-6218928,6218930-6218931					UNSPK: 6218925			
2378-TCDD	93	95	67-158	2	25				
12378-PeCDD	96	97	70-142	1	25				
123478-HxCDD	99	96	70-164	2	25				
123678-HxCDD	96	97	76-134	1	25				
123789-HxCDD	95	95	64-162	0	25				
1234678-HpCDD	96	95	70-140	1	25				
OCDD	118	96	78-144	17	25				
2378-TCDF	96	97	75-158	1	25				
12378-PeCDF	91	93	80-134	2	25				
23478-PeCDF	91	92	68-160	1	25				
123478-HxCDF	95	96	72-134	1	25				
123678-HxCDF	94	95	84-130	1	25				
123789-HxCDF	95	95	78-130	0	25				
234678-HxCDF	96	96	70-156	0	25				
1234678-HpCDF	96	95	82-122	1	25				
1234789-HpCDF	95	95	78-138	1	25				
OCDF	96	94	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235278
Reported: 03/29/11 at 08:45 PM

Surrogate Quality Control

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11066002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6218929	70	61	29	38	62	65
Blank	42	36	32	34	34	36
OPR	74	68	65	66	67	71
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6218929	38	58	50	90	69	57
Blank	34	34	33	86	38	37
OPR	66	65	61	86	74	75
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6218929	62	67	63	56	65	61
Blank	37	38	38	36	43	35
OPR	73	73	72	66	68	67
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11069001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6218914	94	87	77	82	87	91
6218915	88	79	71	75	78	80
6218916	83	72	60	69	74	79
6218917	83	76	44	55	77	82
6218918	77	65	61	71	66	60
6218919	82	78	54	66	75	76
6218920	76	69	63	71	68	64
6218921	84	76	68	78	78	80
6218923	77	61	45	52	67	73
6218924	77	63	31	42	68	68
6218925	81	67	54	65	69	65
6218926	83	68	48	61	69	68
6218927	84	66	51	58	71	68
6218928	79	69	64	66	76	74
6218930	61	61	56	63	61	55
6218931	78	71	65	75	73	63
Blank	79	73	67	75	73	74
MS	83	68	48	61	69	68
MSD	84	66	51	58	71	68
OPR	74	64	54	67	65	62
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235278
Reported: 03/29/11 at 08:45 PM

Surrogate Quality Control

6218914	88	91	92	106	99	93
6218915	82	77	81	95	94	86
6218916	75	73	67	96	91	83
6218917	57	80	75	93	89	73
6218918	82	57	50	90	86	81
6218919	70	79	76	94	87	81
6218920	80	66	63	88	87	80
6218921	83	79	82	106	85	90
6218923	54	67	57	84	76	73
6218924	41	67	57	90	83	63
6218925	70	63	58	89	80	77
6218926	65	64	56	90	85	78
6218927	63	65	56	86	81	72
6218928	68	71	63	87	81	83
6218930	69	54	47	77	70	69
6218931	92	61	52	97	88	87
Blank	86	70	67	100	82	83
MS	65	64	56	90	85	78
MSD	63	65	56	86	81	72
OPR	79	59	57	92	73	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6218914	94	95	99	103	86	86
6218915	87	87	90	107	80	81
6218916	85	85	83	80	74	75
6218917	76	85	85	83	77	77
6218918	81	81	80	71	65	72
6218919	83	83	87	84	77	78
6218920	81	81	82	81	69	74
6218921	92	90	95	100	78	77
6218923	71	81	77	71	66	65
6218924	73	78	77	70	67	64
6218925	79	80	79	72	72	70
6218926	80	81	81	71	69	70
6218927	76	83	79	71	72	70
6218928	78	83	77	67	70	66
6218930	71	70	69	60	56	63
6218931	88	90	89	78	69	80
Blank	85	85	87	84	71	78
MS	80	81	81	71	69	70
MSD	76	83	79	71	72	70
OPR	77	78	80	77	63	71
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
	13C12-2378-TCDF-Conf					
6218914						
6218915						
6218916						
6218917						
6218918						
6218919						
6218920						

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235278
Reported: 03/29/11 at 08:45 PM

Surrogate Quality Control

6218921						
6218923	74					
6218924						
6218925						
6218926						
6218927						
6218928						
6218930						
6218931						
Blank	72					
MS						
MSD						
OPR						
Limits:	24-169					

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11081001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6218922	89	96	51	58	90	91
Blank	97	95	31	45	98	99
OPR	92	84	26	39	88	89
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6218922	55	81	75	94	90	82
Blank	41	78	58	98	101	65
OPR	36	71	50	87	93	56
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6218922	76	84	76	73	96	98
Blank	78	97	82	74	96	109
OPR	67	87	71	65	89	102
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6218922	86
Blank	94
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1235278 sample# 6218914-31

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
DUP-06-SA5A-QC-030111	3.01.11	0900	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
DUP-06-SA5A-QC-030111	3.01.11	0900	SOIL	NONE	1-6 inch sleeve			X	X							
SL-066-SA5A-SS-0.0-0.5	3.01.11	1318	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-066-SA5A-SS-0.0-0.5	3.01.11	1318	SOIL	NONE	1-6 inch sleeve			X	X							
SL-072-SA5A-SS-0.0-0.5	3.01.11	0958	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-072-SA5A-SS-0.0-0.5	3.01.11	0958	SOIL	NONE	1-6 inch sleeve			X	X							
SL-076-SA5A-SS-0.0-0.5	3.01.11	1017	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-076-SA5A-SS-0.0-0.5	3.01.11	1017	SOIL	NONE	1-6 inch sleeve			X	X							
SL-077-SA5A-SS-0.0-0.5	3.01.11	1045	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-077-SA5A-SS-0.0-0.5	3.01.11	1045	SOIL	NONE	1-6 inch sleeve			X	X							
SL-078-SA5A-SS-0.0-0.5	3.01.11	1105	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-078-SA5A-SS-0.0-0.5	3.01.11	1105	SOIL	NONE	1-6 inch sleeve			X	X							
SL-103-SA5A-SS-0.0-0.5	3.01.11	1335	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-103-SA5A-SS-0.0-0.5	3.01.11	1335	SOIL	NONE	1-6 inch sleeve			X	X							
SL-104-SA5A-SS-0.0-0.5	3.01.11	1352	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-104-SA5A-SS-0.0-0.5	3.01.11	1352	SOIL	NONE	1-6 inch sleeve			X	X							
SL-191-SA5A-SS-0.0-0.5	3.01.11	1437	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-191-SA5A-SS-0.0-0.5	3.01.11	1437	SOIL	NONE	1-6 inch sleeve			X	X							
SL-194-SA5A-SS-0.0-0.3	3.01.11	1502	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-194-SA5A-SS-0.0-0.3	3.01.11	1502	SOIL	NONE	1-6 inch sleeve			X	X							
SL-195-SA5A-SS-0.0-0.2	3.01.11	1520	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-195-SA5A-SS-0.0-0.2	3.01.11	1520	SOIL	NONE	1-6 inch sleeve			X	X							
SL-256-SA5A-SS-0.0-0.5MS	3.01.11	0857	SOIL	NONE	2-16 oz jars	X	X			X	X	X		X	X	MS/MSD Sample
SL-256-SA5A-SS-0.0-0.5MS	3.01.11	0857	SOIL	NONE	2-6 inch sleeves			X	X							MS/MSD Sample
SL-257-SA5A-SS-0.0-0.5	3.01.11	0918	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-257-SA5A-SS-0.0-0.5	3.01.11	0918	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (*Signature*) — Date/Time: 03/01/2011 / 17:00

Received for Laboratory by: (*Signature*) 3/2/11 935

Received by: (*Signature*) — Date/Time

Airbill No.(s):
8700 5935 3826; 8700 5935 3848
8700 5935 3860

Laboratory:
Lancaster Laboratories, Inc.

acct#13013 Qp# 1235278 sample# 6218914-31

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
EB04-SA5A-030111	3.01.11	1145	WATER	NONE	6-1 L ambers			X	X	X				X	X	Surface rinsate blank
EB04-SA5A-030111	3.01.11	1145	WATER	HNO3	1-500 mL poly	X										Surface rinsate blank
EB04-SA5A-030111	3.01.11	1145	WATER	NONE	1-500 mL poly		X				X	X				Surface rinsate blank

Relinquished by: (*Signature*) — Date/Time: 03/01/2011 / 17:00

Received for Laboratory by: (*Signature*) 312M 935

Received by: (*Signature*) — Date/Time

Airbill No(s)
8700 5935 3826; 8700 5935 3848
8700 5935 3860

Laboratory:
Lancaster Laboratories, Inc.

acct#13013 Gp#1235278 Sample#6218914-31

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
SL-244-SA5A-SB-4.0-5.0	3.01.11	1042	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-244-SA5A-SB-4.5	3.01.11	1038	SOIL	NONE	4-Encores									X	X		
SL-244-SA5A-SB-9.0-10.0	3.01.11	1044	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
TB-030111	3.01.11	1630	WATER	HCl	3-40 mL VOA VIALS									X	X		TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 03/01/2011 / 17:00		Received for Laboratory by: (*Signature*) Mary Herbst 3/2/11 935														Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8700 5935 3826; 8700 5935 3848 8700 5935 3860														

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 23, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/03/2011
Group Number: 1235570
SDG: DE095
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-07-SA5A-QC-030211 Soil	6220787
SL-042-SA5A-SS-0.0-0.5 Soil	6220788
SL-044-SA5A-SS-0.0-0.5 Soil	6220789
SL-045-SA5A-SS-0.0-0.5 Soil	6220790
SL-048-SA5A-SS-0.0-0.5 Soil	6220791
SL-048-SA5A-SS-0.0-0.5MS Soil	6220792
SL-048-SA5A-SS-0.0-0.5MSD Soil	6220793
SL-048-SA5A-SS-0.0-0.5DUP Soil	6220794
SL-176-SA5A-SS-0.0-0.3 Soil	6220795
SL-178-SA5A-SS-0.0-0.4 Soil	6220796
SL-179-SA5A-SS-0.0-0.3 Soil	6220797
SL-186-SA5A-SS-0.0-0.5 Soil	6220799
SL-188-SA5A-SS-0.0-0.5 Soil	6220800
SL-189-SA5A-SS-0.0-0.5 Soil	6220801
EB05-SA5A-030211 Water	6220802

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

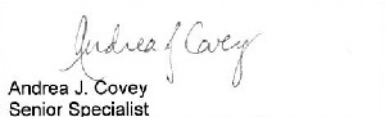
Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Andrea J. Covey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-07-SA5A-QC-030211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-07-SA5A-QC-030211

LLI Sample # SW 6220787
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:58

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9501 SDG#: DE095-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-07-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-07-SA5A-QC-030211

LLI Sample # SW 6220787
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:58

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9501 SDG#: DE095-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.94	J	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	5.3		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	13	J	6.9	21	1
10138	Chrysene	218-01-9	1.6	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.6	J	6.9	21	1
10138	Fluoranthene	206-44-0	2.5		0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	12	J	6.9	21	1
10138	Phenanthrene	85-01-8	1.1	J	0.76	1.9	1
10138	Pyrene	129-00-0	1.9		0.76	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	6.1	U	6.1	6.1	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9	1
10401	MCPA	94-74-6	100	U	100	290	1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290	1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19	1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19	1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-07-SA5A-QC-030211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-07-SA5A-QC-030211

LLI Sample # SW 6220787
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:58

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9501 SDG#: DE095-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9	1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39	1
01363	p,p-DDE	72-55-9	0.14	U	0.14	0.39	1
01363	p,p-DDT	50-29-3	0.23	U	0.23	0.39	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39	1
01363	Endrin	72-20-8	0.075	U	0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.39	1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39	1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.14	U	0.14	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	2.1	J	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.98	J	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.65	J	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		5.70	22.7	1
07914	Boron	7440-42-8	3.16	J	1.01	5.66	1
01650	Calcium	7440-70-2	3,000		6.94	22.7	1
01654	Iron	7439-89-6	23,500		5.34	22.7	1
01656	Lithium	7439-93-2	27.1		0.25	2.3	1
01657	Magnesium	7439-95-4	5,460		2.88	11.3	1
06958	Manganese	7439-96-5	367		0.0884	0.566	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-07-SA5A-QC-030211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-07-SA5A-QC-030211

LLI Sample # SW 6220787
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:58

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9501 SDG#: DE095-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	664		0.634	11.3	1
01662	Potassium	7440-09-7	4,420		20.4	56.6	1
01667	Sodium	7440-23-5	81.6	J	42.3	113	1
07968	Strontium	7440-24-6	19.7		0.0702	0.566	1
06969	Tin	7440-31-5	3.03	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,270		0.430	1.13	1
10146	Zirconium	7440-67-7	1.55	J	0.952	5.66	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0680	0.227	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.35		0.0906	0.453	2
06126	Barium	7440-39-3	140		0.122	0.453	2
06127	Beryllium	7440-41-7	0.632		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.258		0.0453	0.113	2
06131	Chromium	7440-47-3	23.3		0.136	0.453	2
06132	Cobalt	7440-48-4	6.86		0.0227	0.113	2
06133	Copper	7440-50-8	11.5		0.0719	0.436	2
06135	Lead	7439-92-1	11.3		0.0118	0.227	2
06138	Molybdenum	7439-98-7	0.717		0.0566	0.113	2
06139	Nickel	7440-02-0	16.2		0.113	0.453	2
06141	Selenium	7782-49-2	0.162	J	0.0453	0.453	2
06142	Silver	7440-22-4	0.114		0.0136	0.113	2
06145	Thallium	7440-28-0	0.304		0.0340	0.113	2
06148	Vanadium	7440-62-2	43.1		0.0249	0.113	2
06149	Zinc	7440-66-6	80.9		0.634	3.40	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0448	J	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.92	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	356		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: DUP-07-SA5A-QC-030211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-07-SA5A-QC-030211

LLI Sample # SW 6220787
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:58

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9501 SDG#: DE095-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.20	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11067SLA026	03/11/2011 19:04	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/18/2011 20:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLD026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11067SLA026	03/08/2011 13:30	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110740020A	03/18/2011 22:56	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/21/2011 20:58	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690007A	03/16/2011 02:54	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110690028A	03/11/2011 12:30	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690007A	03/10/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110740020A	03/16/2011 23:50	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-07-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-07-SA5A-QC-030211

LLI Sample # SW 6220787
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:58

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9501 SDG#: DE095-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 18:05	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 16:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 16:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 16:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 16:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 16:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 16:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 16:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 09:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/12/2011 16:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 16:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 16:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 16:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 16:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110681026002A	03/12/2011 16:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 16:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110681026002A	03/12/2011 16:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 05:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11074495201A	03/17/2011 16:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11069069201A	03/15/2011 16:00	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243202A	03/08/2011 18:16	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11074495201A	03/15/2011 23:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11069069201A	03/10/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182101A	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401A	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SS-0.0-0.5

LLI Sample # SW 6220788
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 10:11

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9502 SDG#: DE095-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100	1
04688	Benzo(g,h,i)perylene	191-24-2	22	J	20	200	1
04688	Benzoic acid	65-85-0	200	U	200	610	1
04688	Benzyl alcohol	100-51-6	200	U	200	610	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200	1
04688	4-Chloroaniline	106-47-8	82	U	82	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200	1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610	1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	82	U	82	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	41	U	41	200	1
04688	4-Methylphenol	106-44-5	41	U	41	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	41	U	41	200	1
04688	4-Nitroaniline	100-01-6	82	U	82	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	610	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	610	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-042-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SS-0.0-0.5

LLI Sample # SW 6220788
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 10:11

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9502 SDG#: DE095-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200	1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.0	1
10138	Acenaphthylene	208-96-8	0.72	J	0.41	2.0	1
10138	Anthracene	120-12-7	2.4		0.41	2.0	1
10138	Benzo(a)anthracene	56-55-3	3.9		0.82	2.0	1
10138	Benzo(a)pyrene	50-32-8	6.6		0.82	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	32		0.82	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.82	U	0.82	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22	1
10138	Di-n-butylphthalate	84-74-2	14	J	7.3	22	1
10138	Chrysene	218-01-9	10		0.41	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.82	2.0	1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22	1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.7	J	7.3	22	1
10138	Fluoranthene	206-44-0	11		0.82	2.0	1
10138	Fluorene	86-73-7	0.82	U	0.82	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	10		0.82	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.82	U	0.82	2.0	1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.82	2.0	1
10138	Naphthalene	91-20-3	1.3	J	0.82	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.0	1
10138	Di-n-octylphthalate	117-84-0	13	J	7.3	22	1
10138	Phenanthrene	85-01-8	4.5		0.82	2.0	1
10138	Pyrene	129-00-0	11		0.82	2.0	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	J	1.5	4.4	1
10401	Dalapon	75-99-0	5.4	U	5.4	11	1
10401	2,4-DB	94-82-6	2.1	U	2.1	2.1	1
10401	Dicamba	1918-00-9	0.49	U	0.49	1.5	1
10401	Dinoseb	88-85-7	0.99	U	0.99	3.0	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.99	U	0.99	2.1	1
10401	MCPA	94-74-6	230	U	230	310	1
10401	MCPP (Mecoprop)	93-65-2	480	U	480	480	1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21	1
10401	2,4,5-TP	93-72-1	0.092	U	0.092	0.21	1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.081	U	0.081	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SS-0.0-0.5

LLI Sample # SW 6220788
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 10:11

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9502 SDG#: DE095-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.042	U	0.042	0.20	1
01363	Beta BHC	319-85-7	0.074	U	0.074	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.042	U	0.042	0.20	1
01363	Chlordane	57-74-9	3.9	U	3.9	4.2	1
01363	p,p-DDD	72-54-8	0.53	U	0.53	0.53	1
01363	p,p-DDE	72-55-9	1.1	U	1.1	1.1	1
01363	p,p-DDT	50-29-3	13	U	13	13	5
01363	Delta BHC	319-86-8	0.13	J	0.044	0.20	1
01363	Dieldrin	60-57-1	2.3	U	2.3	2.3	1
01363	Endosulfan I	959-98-8	0.054	U	0.054	0.20	1
01363	Endosulfan II	33213-65-9	1.8	U	1.8	1.8	1
01363	Endosulfan Sulfate	1031-07-8	0.081	U	0.081	0.42	1
01363	Endrin	72-20-8	0.081	U	0.081	0.42	1
01363	Endrin Aldehyde	7421-93-4	1.1	U	1.1	1.1	1
01363	Endrin Ketone	53494-70-5	0.081	U	0.081	0.42	1
01363	Heptachlor	76-44-8	0.074	U	0.074	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.21	U	0.21	1.0	5
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.0	1
01363	Mirex	2385-85-5	0.28	U	0.28	0.42	1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.1	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to interfering peaks on the chromatogram, the values reported for p,p-DDT represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.2	U	6.2	20	5
10225	Aroclor 5442	12642-23-8	6.2	U	6.2	20	5
10225	Aroclor 5460	11126-42-4	58		6.2	20	5
10225	PCB-1016	12674-11-2	2.0	U	2.0	10	5
10225	PCB-1221	11104-28-2	2.0	U	2.0	10	5
10225	PCB-1232	11141-16-5	2.0	U	2.0	10	5
10225	PCB-1242	53469-21-9	2.0	U	2.0	10	5
10225	PCB-1248	12672-29-6	2.0	U	2.0	10	5
10225	PCB-1254	11097-69-1	75		2.0	10	5
10225	PCB-1260	11096-82-5	56		2.4	10	5
10225	PCB-1262	37324-23-5	2.0	U	2.0	10	5
10225	PCB-1268	11100-14-4	2.0	U	2.0	10	5

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,100		6.07	24.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SS-0.0-0.5

LLI Sample # SW 6220788
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 10:11

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9502 SDG#: DE095-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	5.72	J	1.07	6.04	1
01650	Calcium	7440-70-2	9,330		7.40	24.1	1
01654	Iron	7439-89-6	30,900		11.4	48.3	2
01656	Lithium	7439-93-2	47.7		0.27	2.4	1
01657	Magnesium	7439-95-4	7,320		3.07	12.1	1
06958	Manganese	7439-96-5	424		0.0942	0.604	1
10145	Phosphorus	7723-14-0	695		0.676	12.1	1
01662	Potassium	7440-09-7	4,800		21.7	60.4	1
01667	Sodium	7440-23-5	125		45.0	121	1
07968	Strontium	7440-24-6	56.1		0.0749	0.604	1
06969	Tin	7440-31-5	4.02	J	1.21	12.1	1
06970	Titanium	7440-32-6	1,560		0.459	1.21	1
10146	Zirconium	7440-67-7	2.40	J	1.01	6.04	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.328		0.0724	0.241	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	12.0		0.0966	0.483	2
06126	Barium	7440-39-3	191		0.130	0.483	2
06127	Beryllium	7440-41-7	1.19		0.0193	0.121	2
06128	Cadmium	7440-43-9	2.63		0.0483	0.121	2
06131	Chromium	7440-47-3	57.8		0.145	0.483	2
06132	Cobalt	7440-48-4	10.5		0.0241	0.121	2
06133	Copper	7440-50-8	49.5		0.0789	0.478	2
06135	Lead	7439-92-1	29.5		0.0126	0.241	2
06138	Molybdenum	7439-98-7	2.04		0.0604	0.121	2
06139	Nickel	7440-02-0	28.9		0.121	0.483	2
06141	Selenium	7782-49-2	0.457	J	0.0483	0.483	2
06142	Silver	7440-22-4	59.2		0.0145	0.121	2
06145	Thallium	7440-28-0	0.411		0.0362	0.121	2
06148	Vanadium	7440-62-2	65.6		0.0266	0.121	2
06149	Zinc	7440-66-6	171		0.676	3.62	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.100	J	0.0034	0.117	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.99	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.1	U	11.1	36.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	4.8		0.25	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SS-0.0-0.5

LLI Sample # SW 6220788
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 10:11

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9502 SDG#: DE095-02

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	345	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.54	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	18.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11067SLA026	03/11/2011 19:29	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/18/2011 21:03	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLD026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11067SLA026	03/08/2011 13:30	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110740020A	03/18/2011 23:23	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/21/2011 21:12	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/21/2011 21:26	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690007A	03/16/2011 03:17	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110690028A	03/11/2011 12:30	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690007A	03/10/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110740020A	03/16/2011 23:50	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 18:16	John P Hook	1
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 18:16	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 18:16	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 23:23	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 18:16	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SS-0.0-0.5

LLI Sample # SW 6220788
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 10:11

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9502 SDG#: DE095-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 18:16	John P Hook	1
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 18:16	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 18:16	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 18:16	John P Hook	1
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 18:16	John P Hook	1
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 18:16	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 18:16	John P Hook	1
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 18:16	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 18:16	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 16:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 16:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 16:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 16:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 16:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 16:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 16:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 09:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/12/2011 16:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 16:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 16:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 16:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 16:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110681026002A	03/12/2011 16:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 16:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110681026002A	03/12/2011 16:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 05:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11074495201A	03/17/2011 16:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11069069201A	03/15/2011 16:24	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243202A	03/08/2011 18:28	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11074495201A	03/15/2011 23:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11069069201A	03/10/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182101A	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401A	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-044-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SS-0.0-0.5

LLI Sample # SW 6220789
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:58

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9503 SDG#: DE095-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-044-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SS-0.0-0.5

LLI Sample # SW 6220789
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:58

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9503 SDG#: DE095-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	7.2		0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	13	J	6.7	20	1
10138	Chrysene	218-01-9	3.1		0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.2	J	6.7	20	1
10138	Fluoranthene	206-44-0	3.1		0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	12	J	6.7	20	1
10138	Phenanthrene	85-01-8	1.3	J	0.75	1.9	1
10138	Pyrene	129-00-0	2.8		0.75	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	3.4	U	3.4	3.4	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	140	U	140	280	1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.16	J	0.085	0.19	1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-044-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SS-0.0-0.5

LLI Sample # SW 6220789
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:58

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9503 SDG#: DE095-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	2.0	U	2.0	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38	1
01363	p,p-DDT	50-29-3	3.2		0.37	1.9	5
01363	Delta BHC	319-86-8	0.062	J	0.041	0.19	1
01363	Dieldrin	60-57-1	0.38	U	0.38	0.38	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.34	U	0.34	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.30	U	0.30	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.46	U	0.46	0.46	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.12	U	0.12	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.16	U	0.16	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	13		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	8.8		0.37	1.9	1
10225	PCB-1260	11096-82-5	6.9		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,200		5.68	22.6	1
07914	Boron	7440-42-8	3.99	J	1.00	5.64	1
01650	Calcium	7440-70-2	3,240		6.92	22.6	1
01654	Iron	7439-89-6	22,900		5.32	22.6	1
01656	Lithium	7439-93-2	28.7		0.25	2.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-044-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SS-0.0-0.5

LLI Sample # SW 6220789
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:58

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9503 SDG#: DE095-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,870		2.87	11.3	1
06958	Manganese	7439-96-5	298		0.0880	0.564	1
10145	Phosphorus	7723-14-0	525		0.632	11.3	1
01662	Potassium	7440-09-7	3,960		20.3	56.4	1
01667	Sodium	7440-23-5	87.8	J	42.1	113	1
07968	Strontium	7440-24-6	23.7		0.0700	0.564	1
06969	Tin	7440-31-5	3.06	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,210		0.429	1.13	1
10146	Zirconium	7440-67-7	1.78	J	0.948	5.64	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.177	J	0.0664	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.24		0.0885	0.443	2
06126	Barium	7440-39-3	125		0.120	0.443	2
06127	Beryllium	7440-41-7	0.786		0.0177	0.111	2
06128	Cadmium	7440-43-9	0.702		0.0443	0.111	2
06131	Chromium	7440-47-3	30.8		0.133	0.443	2
06132	Cobalt	7440-48-4	7.40		0.0221	0.111	2
06133	Copper	7440-50-8	15.1		0.0709	0.430	2
06135	Lead	7439-92-1	16.9		0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.929		0.0553	0.111	2
06139	Nickel	7440-02-0	19.1		0.111	0.443	2
06141	Selenium	7782-49-2	0.205	J	0.0443	0.443	2
06142	Silver	7440-22-4	13.9		0.0133	0.111	2
06145	Thallium	7440-28-0	0.331		0.0332	0.111	2
06148	Vanadium	7440-62-2	42.2		0.0243	0.111	2
06149	Zinc	7440-66-6	98.0		0.620	3.32	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0314	J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.85	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	398		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-044-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SS-0.0-0.5

LLI Sample # SW 6220789
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:58

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9503 SDG#: DE095-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.74	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	11.4	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11067SLA026	03/11/2011 19:54	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/18/2011 21:35	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLD026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11067SLA026	03/08/2011 13:30	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110740020A	03/18/2011 23:51	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/21/2011 21:39	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/23/2011 07:52	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690007A	03/16/2011 03:40	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110690028A	03/11/2011 12:30	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690007A	03/10/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110740020A	03/16/2011 23:50	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SS-0.0-0.5

LLI Sample # SW 6220789
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:58

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9503 SDG#: DE095-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 18:20	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 16:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 16:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 16:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 16:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 16:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 16:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 16:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 09:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/12/2011 16:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 16:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 16:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 16:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 16:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110681026002A	03/12/2011 16:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 16:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110681026002A	03/12/2011 16:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 05:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11074495201A	03/17/2011 16:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11069069201A	03/15/2011 16:48	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243202A	03/08/2011 18:41	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11074495201A	03/15/2011 23:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11069069201A	03/10/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182101A	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401A	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-045-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5A-SS-0.0-0.5

LLI Sample # SW 6220790
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:30

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9504 SDG#: DE095-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	600	1
04688	Benzyl alcohol	100-51-6	200	U	200	600	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	80	U	80	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	80	U	80	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	600	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	600	1
04688	Phenol	108-95-2	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-045-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5A-SS-0.0-0.5

LLI Sample # SW 6220790
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:30

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9504 SDG#: DE095-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0	1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	4.9		0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	14	J	7.1	21	1
10138	Chrysene	218-01-9	1.1	J	0.40	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21	1
10138	Fluoranthene	206-44-0	1.3	J	0.79	2.0	1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0	1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	12	J	7.1	21	1
10138	Phenanthrene	85-01-8	0.84	J	0.79	2.0	1
10138	Pyrene	129-00-0	1.1	J	0.79	2.0	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.3	U	5.3	11	1
10401	2,4-DB	94-82-6	2.2	U	2.2	2.2	1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4	1
10401	Dinoseb	88-85-7	0.96	U	0.96	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.96	U	0.96	2.0	1
10401	MCPA	94-74-6	91	U	91	300	1
10401	MCPP (Mecoprop)	93-65-2	90	U	90	300	1
10401	2,4,5-T	93-76-5	0.098	U	0.098	0.20	1
10401	2,4,5-TP	93-72-1	0.090	U	0.090	0.20	1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	6.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-045-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA5A-SS-0.0-0.5

LLI Sample # SW 6220790
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:30

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9504 SDG#: DE095-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.079	U	0.079	0.20	1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20	1
01363	Beta BHC	319-85-7	0.072	U	0.072	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20	1
01363	Chlordane	57-74-9	3.7	U	3.7	4.1	1
01363	p,p-DDD	72-54-8	0.090	U	0.090	0.41	1
01363	p,p-DDE	72-55-9	0.15	U	0.15	0.41	1
01363	p,p-DDT	50-29-3	0.24	U	0.24	0.41	1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20	1
01363	Dieldrin	60-57-1	0.079	U	0.079	0.41	1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20	1
01363	Endosulfan II	33213-65-9	0.079	U	0.079	0.41	1
01363	Endosulfan Sulfate	1031-07-8	0.079	U	0.079	0.41	1
01363	Endrin	72-20-8	0.079	U	0.079	0.41	1
01363	Endrin Aldehyde	7421-93-4	0.23	U	0.23	0.41	1
01363	Endrin Ketone	53494-70-5	0.079	U	0.079	0.41	1
01363	Heptachlor	76-44-8	0.072	U	0.072	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.20	1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0	1
01363	Mirex	2385-85-5	0.079	U	0.079	0.41	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	2.0	J	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	1.2	J	0.47	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,700		5.89	23.4	1
07914	Boron	7440-42-8	4.55	J	1.04	5.86	1
01650	Calcium	7440-70-2	3,360		7.18	23.4	1
01654	Iron	7439-89-6	27,500		5.52	23.4	1
01656	Lithium	7439-93-2	28.5		0.26	2.3	1
01657	Magnesium	7439-95-4	5,510		2.98	11.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-045-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA5A-SS-0.0-0.5

LLI Sample # SW 6220790
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:30

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9504 SDG#: DE095-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	434		0.0914	0.586	1
10145	Phosphorus	7723-14-0	662		0.656	11.7	1
01662	Potassium	7440-09-7	5,800		21.1	58.6	1
01667	Sodium	7440-23-5	84.9	J	43.7	117	1
07968	Strontium	7440-24-6	27.0		0.0726	0.586	1
06969	Tin	7440-31-5	3.19	J	1.17	11.7	1
06970	Titanium	7440-32-6	1,390		0.445	1.17	1
10146	Zirconium	7440-67-7	1.83	J	0.984	5.86	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.153	J	0.0696	0.232	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.44		0.0928	0.464	2
06126	Barium	7440-39-3	182		0.125	0.464	2
06127	Beryllium	7440-41-7	1.06		0.0186	0.116	2
06128	Cadmium	7440-43-9	0.437		0.0464	0.116	2
06131	Chromium	7440-47-3	34.7		0.139	0.464	2
06132	Cobalt	7440-48-4	9.49		0.0232	0.116	2
06133	Copper	7440-50-8	14.8		0.0773	0.469	2
06135	Lead	7439-92-1	16.1		0.0121	0.232	2
06138	Molybdenum	7439-98-7	1.02		0.0580	0.116	2
06139	Nickel	7440-02-0	22.5		0.116	0.464	2
06141	Selenium	7782-49-2	0.273	J	0.0464	0.464	2
06142	Silver	7440-22-4	0.0846	J	0.0139	0.116	2
06145	Thallium	7440-28-0	0.417		0.0348	0.116	2
06148	Vanadium	7440-62-2	56.5		0.0255	0.116	2
06149	Zinc	7440-66-6	112		0.650	3.48	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0044	J	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.96	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.6		0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	376		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-045-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA5A-SS-0.0-0.5

LLI Sample # SW 6220790
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E9504 SDG#: DE095-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.83	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	16.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11067SLA026	03/11/2011 20:19	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/18/2011 22:06	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLD026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11067SLA026	03/08/2011 13:30	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110740020A	03/19/2011 00:18	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110710012A	03/15/2011 14:50	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/21/2011 21:52	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690007A	03/16/2011 04:03	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110690028A	03/11/2011 12:30	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690007A	03/10/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110740020A	03/16/2011 23:50	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110710012A	03/14/2011 09:25	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-045-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA5A-SS-0.0-0.5

LLI Sample # SW 6220790
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9504 SDG#: DE095-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 18:24	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 16:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 16:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 16:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 16:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 16:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 16:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 16:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 09:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/12/2011 16:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 16:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 16:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 16:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 16:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110681026002A	03/12/2011 16:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 16:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110681026002A	03/12/2011 16:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 05:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11074495201A	03/17/2011 17:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11069069201A	03/15/2011 17:12	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243202A	03/08/2011 18:47	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11074495201A	03/15/2011 23:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11069069201A	03/10/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182101A	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401A	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-048-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220791
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220791
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	12	J	6.9	21	1
10138	Chrysene	218-01-9	0.90	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.94	J	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	12	J	6.9	21	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	6.7	U	6.7	6.7	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9	1
10401	MCPA	94-74-6	87	U	87	290	1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290	1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19	1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19	1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220791
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9	1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39	1
01363	p,p-DDE	72-55-9	0.13	U	0.13	0.39	1
01363	p,p-DDT	50-29-3	0.20	U	0.20	0.39	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39	1
01363	Endrin	72-20-8	0.075	U	0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39	1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39	1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.12	U	0.12	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.88	J	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,600		5.58	22.2	1
07914	Boron	7440-42-8	3.38	J	0.988	5.55	1
01650	Calcium	7440-70-2	3,150		6.80	22.2	1
01654	Iron	7439-89-6	23,600		5.23	22.2	1
01656	Lithium	7439-93-2	27.6		0.24	2.2	1
01657	Magnesium	7439-95-4	5,550		2.82	11.1	1
06958	Manganese	7439-96-5	370		0.0865	0.555	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220791
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	696		0.621	11.1	1
01662	Potassium	7440-09-7	4,460		20.0	55.5	1
01667	Sodium	7440-23-5	81.4	J	41.4	111	1
07968	Strontium	7440-24-6	20.3		0.0688	0.555	1
06969	Tin	7440-31-5	2.84	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,290		0.422	1.11	1
10146	Zirconium	7440-67-7	1.94	J	0.932	5.55	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.167	J	0.0679	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.30		0.0905	0.453	2
06126	Barium	7440-39-3	165		0.122	0.453	2
06127	Beryllium	7440-41-7	0.853		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.259		0.0453	0.113	2
06131	Chromium	7440-47-3	29.1		0.136	0.453	2
06132	Cobalt	7440-48-4	7.73		0.0226	0.113	2
06133	Copper	7440-50-8	11.3		0.0718	0.435	2
06135	Lead	7439-92-1	14.9		0.0118	0.226	2
06138	Molybdenum	7439-98-7	1.04		0.0566	0.113	2
06139	Nickel	7440-02-0	18.8		0.113	0.453	2
06141	Selenium	7782-49-2	0.554		0.0453	0.453	2
06142	Silver	7440-22-4	0.180		0.0136	0.113	2
06145	Thallium	7440-28-0	0.379		0.0339	0.113	2
06148	Vanadium	7440-62-2	52.1		0.0249	0.113	2
06149	Zinc	7440-66-6	92.2		0.634	3.39	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0040	J	0.0032	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	388		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220791
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E9505 SDG#: DE095-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.33	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11067SLA026	03/11/2011 20:44	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/18/2011 18:54	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLD026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11067SLA026	03/08/2011 13:30	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110740020A	03/18/2011 20:39	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/21/2011 22:05	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690007A	03/16/2011 04:26	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110690028A	03/11/2011 12:30	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690007A	03/10/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110740020A	03/16/2011 23:50	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220791
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 17:41	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 15:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 15:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 15:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 15:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 15:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 15:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 15:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 08:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/12/2011 15:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 15:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 15:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 15:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 15:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110681026002A	03/12/2011 15:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 15:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110681026002A	03/12/2011 15:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 05:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11074495201A	03/17/2011 15:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11069069201A	03/15/2011 14:24	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243202A	03/08/2011 18:59	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11074495201A	03/15/2011 23:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11069069201A	03/10/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182101A	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401A	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220792
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190	1
04688	Acenaphthylene	208-96-8	1,800		19	190	1
04688	Aniline	62-53-3	1,800		190	570	1
04688	Anthracene	120-12-7	1,800		19	190	1
04688	Benzidine	92-87-5	1,800	J	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	2,000		19	190	1
04688	Benzoic acid	65-85-0	1,700		190	570	1
04688	Benzyl alcohol	100-51-6	1,700		190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	2,000		19	190	1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,900		19	190	1
04688	Carbazole	86-74-8	1,700		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		38	190	1
04688	4-Chloroaniline	106-47-8	1,100		76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,400		19	190	1
04688	2-Chlorophenol	95-57-8	1,800		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190	1
04688	Chrysene	218-01-9	1,800		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		19	190	1
04688	Dibenzofuran	132-64-9	1,800		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,600		19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,600		110	380	1
04688	2,4-Dichlorophenol	120-83-2	1,800		19	190	1
04688	Diethylphthalate	84-66-2	1,700		19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800		38	190	1
04688	3,5-Dimethylphenol	108-68-9	1,800		38	190	1
04688	Dimethylphthalate	131-11-3	1,800		19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	770		190	570	1
04688	2,4-Dinitrophenol	51-28-5	1,100	J	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		19	380	1
04688	Fluoranthene	206-44-0	1,700		19	190	1
04688	Fluorene	86-73-7	1,700		19	190	1
04688	Hexachlorobenzene	118-74-1	2,000		19	190	1
04688	Hexachlorobutadiene	87-68-3	1,800		76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	970		190	570	1
04688	Hexachloroethane	67-72-1	1,200		19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		19	190	1
04688	Isophorone	78-59-1	1,800		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220792
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,900	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190	1
04688	2-Methylphenol	95-48-7	1,700	38	190	1
04688	4-Methylphenol	106-44-5	1,600	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	19	190	1
04688	2-Nitroaniline	88-74-4	1,900	19	190	1
04688	3-Nitroaniline	99-09-2	1,700	38	190	1
04688	4-Nitroaniline	100-01-6	1,400	76	190	1
04688	Nitrobenzene	98-95-3	1,700	19	190	1
04688	2-Nitrophenol	88-75-5	1,800	19	190	1
04688	4-Nitrophenol	100-02-7	1,200	190	570	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	2,000	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,800	19	190	1
04688	Pentachlorophenol	87-86-5	1,700	190	570	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	1,600	19	190	1
04688	Pyrene	129-00-0	1,800	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	37	0.76	1.9	1
10138	Acenaphthylene	208-96-8	36	0.38	1.9	1
10138	Anthracene	120-12-7	37	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	39	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	40	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	50	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	24	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	46	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	48	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	45	6.9	21	1
10138	Chrysene	218-01-9	39	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	28	0.76	1.9	1
10138	Diethylphthalate	84-66-2	43	6.9	21	1
10138	Dimethylphthalate	131-11-3	41	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	64	6.9	21	1
10138	Fluoranthene	206-44-0	42	0.76	1.9	1
10138	Fluorene	86-73-7	38	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	27	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	37	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5A-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220792
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	33		0.76	1.9	1
10138	Naphthalene	91-20-3	36		0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	35		0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	55		6.9	21	1
10138	Phenanthrene	85-01-8	37		0.76	1.9	1
10138	Pyrene	129-00-0	38		0.76	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.7		1.4	4.1	1
10401	Dalapon	75-99-0	15		5.0	10	1
10401	2,4-DB	94-82-6	15		0.71	1.9	1
10401	Dicamba	1918-00-9	0.89	J	0.46	1.4	1
10401	Dinoseb	88-85-7	2.5	J	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	8.2		0.91	1.9	1
10401	MCPA	94-74-6	860		87	290	1
10401	MCPP (Mecoprop)	93-65-2	150	J	86	290	1
10401	2,4,5-T	93-76-5	0.41		0.094	0.19	1
10401	2,4,5-TP	93-72-1	0.75		0.086	0.19	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.29		0.075	0.19	1
01363	Alpha BHC	319-84-6	0.38		0.039	0.19	1
01363	Beta BHC	319-85-7	0.35		0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.40		0.039	0.19	1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9	1
01363	p,p-DDD	72-54-8	0.87		0.075	0.39	1
01363	p,p-DDE	72-55-9	0.79		0.075	0.39	1
01363	p,p-DDT	50-29-3	1.1		0.075	0.39	1
01363	Delta BHC	319-86-8	0.33		0.041	0.19	1
01363	Dieldrin	60-57-1	0.95		0.075	0.39	1
01363	Endosulfan I	959-98-8	0.43		0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.70		0.075	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.70		0.075	0.39	1
01363	Endrin	72-20-8	0.83		0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.55		0.075	0.39	1
01363	Endrin Ketone	53494-70-5	0.64		0.075	0.39	1
01363	Heptachlor	76-44-8	0.46		0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.31		0.039	0.19	1
01363	Methoxychlor	72-43-5	4.8		0.39	1.9	1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	2.1	J	1.1	3.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220792
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	16		0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	19		0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		5.69	22.6	1
07914	Boron	7440-42-8	226		1.01	5.66	1
01650	Calcium	7440-70-2	3,730		6.94	22.6	1
01654	Iron	7439-89-6	22,100		5.33	22.6	1
01656	Lithium	7439-93-2	142		0.25	2.3	1
01657	Magnesium	7439-95-4	5,420		2.87	11.3	1
06958	Manganese	7439-96-5	408		0.0883	0.566	1
10145	Phosphorus	7723-14-0	759		0.634	11.3	1
01662	Potassium	7440-09-7	5,590		20.4	56.6	1
01667	Sodium	7440-23-5	1,240		42.2	113	1
07968	Strontium	7440-24-6	135		0.0702	0.566	1
06969	Tin	7440-31-5	403		1.13	11.3	1
06970	Titanium	7440-32-6	1,540		0.430	1.13	1
10146	Zirconium	7440-67-7	109		0.950	5.66	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.909		0.0686	0.229	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.76		0.0914	0.457	2
06126	Barium	7440-39-3	175		0.123	0.457	2
06127	Beryllium	7440-41-7	1.97		0.0183	0.114	2
06128	Cadmium	7440-43-9	1.80		0.0457	0.114	2
06131	Chromium	7440-47-3	41.8		0.137	0.457	2
06132	Cobalt	7440-48-4	76.0		0.0229	0.114	2
06133	Copper	7440-50-8	21.9		0.0747	0.453	2
06135	Lead	7439-92-1	17.2		0.0119	0.229	2
06138	Molybdenum	7439-98-7	16.8		0.0571	0.114	2
06139	Nickel	7440-02-0	32.0		0.114	0.457	2
06141	Selenium	7782-49-2	3.04		0.0457	0.457	2
06142	Silver	7440-22-4	15.2		0.0137	0.114	2
06145	Thallium	7440-28-0	0.920		0.0343	0.114	2
06148	Vanadium	7440-62-2	63.1		0.0251	0.114	2
06149	Zinc	7440-66-6	104		0.640	3.43	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.203		0.0032	0.113	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220792
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.2	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	633	10.3	34.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	41.3	1.1	5.7	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11067SLA026	03/11/2011 21:10	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/18/2011 19:27	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLD026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11067SLA026	03/08/2011 13:30	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110740020A	03/18/2011 21:07	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/21/2011 22:20	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690007A	03/16/2011 04:49	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110690028A	03/11/2011 12:30	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690007A	03/10/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110740020A	03/16/2011 23:50	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220792
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 17:53	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 16:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 16:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 16:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 16:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 16:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 16:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 16:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 08:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/12/2011 16:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 16:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 16:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 16:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 16:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110681026002A	03/12/2011 16:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 16:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110681026002A	03/12/2011 16:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 05:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11074495201A	03/17/2011 15:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11069069201A	03/15/2011 15:36	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243202A	03/08/2011 19:18	Carrie E Miller	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11074495201A	03/15/2011 23:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11069069201A	03/10/2011 23:45	James S Mathiot	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220793
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190	1
04688	Acenaphthylene	208-96-8	1,800		19	190	1
04688	Aniline	62-53-3	1,900		190	570	1
04688	Anthracene	120-12-7	1,800		19	190	1
04688	Benzidine	92-87-5	1,700	J	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190	1
04688	Benzoic acid	65-85-0	1,700		190	570	1
04688	Benzyl alcohol	100-51-6	1,800		190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	2,000		19	190	1
04688	Butylbenzylphthalate	85-68-7	2,100		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,900		19	190	1
04688	Carbazole	86-74-8	1,800		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		38	190	1
04688	4-Chloroaniline	106-47-8	1,500		76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,500		19	190	1
04688	2-Chlorophenol	95-57-8	1,800		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190	1
04688	Chrysene	218-01-9	1,900		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		19	190	1
04688	Dibenzofuran	132-64-9	1,800		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,600		19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,800		110	380	1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190	1
04688	Diethylphthalate	84-66-2	1,800		19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800		38	190	1
04688	3,5-Dimethylphenol	108-68-9	1,800		38	190	1
04688	Dimethylphthalate	131-11-3	1,800		19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	760		190	570	1
04688	2,4-Dinitrophenol	51-28-5	1,100	J	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,800		38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		19	380	1
04688	Fluoranthene	206-44-0	1,800		19	190	1
04688	Fluorene	86-73-7	1,800		19	190	1
04688	Hexachlorobenzene	118-74-1	2,000		19	190	1
04688	Hexachlorobutadiene	87-68-3	1,900		76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	970		190	570	1
04688	Hexachloroethane	67-72-1	1,200		19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		19	190	1
04688	Isophorone	78-59-1	1,800		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220793
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,900	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,800	19	190	1
04688	2-Methylphenol	95-48-7	1,700	38	190	1
04688	4-Methylphenol	106-44-5	1,700	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	19	190	1
04688	2-Nitroaniline	88-74-4	1,900	19	190	1
04688	3-Nitroaniline	99-09-2	1,800	38	190	1
04688	4-Nitroaniline	100-01-6	1,500	76	190	1
04688	Nitrobenzene	98-95-3	1,700	19	190	1
04688	2-Nitrophenol	88-75-5	1,800	19	190	1
04688	4-Nitrophenol	100-02-7	1,300	190	570	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	2,000	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,800	19	190	1
04688	Pentachlorophenol	87-86-5	1,700	190	570	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	1,700	19	190	1
04688	Pyrene	129-00-0	1,900	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	36	0.76	1.9	1
10138	Acenaphthylene	208-96-8	36	0.38	1.9	1
10138	Anthracene	120-12-7	37	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	37	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	38	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	46	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	26	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	42	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	46	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	44	6.9	21	1
10138	Chrysene	218-01-9	37	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	29	0.76	1.9	1
10138	Diethylphthalate	84-66-2	41	6.9	21	1
10138	Dimethylphthalate	131-11-3	41	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	49	6.9	21	1
10138	Fluoranthene	206-44-0	41	0.76	1.9	1
10138	Fluorene	86-73-7	38	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	29	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	36	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220793
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	32		0.76	1.9	1
10138	Naphthalene	91-20-3	34		0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	36		0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	52		6.9	21	1
10138	Phenanthrene	85-01-8	36		0.76	1.9	1
10138	Pyrene	129-00-0	37		0.76	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.8		1.4	4.1	1
10401	Dalapon	75-99-0	11		5.0	10	1
10401	2,4-DB	94-82-6	10		0.71	1.9	1
10401	Dicamba	1918-00-9	0.71	J	0.46	1.4	1
10401	Dinoseb	88-85-7	1.6	J	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	7.4		0.91	1.9	1
10401	MCPA	94-74-6	780		86	280	1
10401	MCPP (Mecoprop)	93-65-2	310		85	280	1
10401	2,4,5-T	93-76-5	0.32		0.094	0.19	1
10401	2,4,5-TP	93-72-1	0.59		0.086	0.19	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.29		0.075	0.19	1
01363	Alpha BHC	319-84-6	0.39		0.039	0.19	1
01363	Beta BHC	319-85-7	0.34		0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.40		0.039	0.19	1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9	1
01363	p,p-DDD	72-54-8	0.82		0.075	0.39	1
01363	p,p-DDE	72-55-9	0.74		0.075	0.39	1
01363	p,p-DDT	50-29-3	1.1		0.075	0.39	1
01363	Delta BHC	319-86-8	0.33		0.041	0.19	1
01363	Dieldrin	60-57-1	0.87		0.075	0.39	1
01363	Endosulfan I	959-98-8	0.43		0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.69		0.075	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.71		0.075	0.39	1
01363	Endrin	72-20-8	0.82		0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.71		0.075	0.39	1
01363	Endrin Ketone	53494-70-5	0.64		0.075	0.39	1
01363	Heptachlor	76-44-8	0.46		0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.30		0.039	0.19	1
01363	Methoxychlor	72-43-5	4.7		0.39	1.9	1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.4	J	1.1	3.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220793
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	15		0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	18		0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,700		5.58	22.2	1
07914	Boron	7440-42-8	222		0.988	5.55	1
01650	Calcium	7440-70-2	3,810		6.80	22.2	1
01654	Iron	7439-89-6	23,300		5.23	22.2	1
01656	Lithium	7439-93-2	141		0.24	2.2	1
01657	Magnesium	7439-95-4	5,850		2.82	11.1	1
06958	Manganese	7439-96-5	418		0.0865	0.555	1
10145	Phosphorus	7723-14-0	781		0.621	11.1	1
01662	Potassium	7440-09-7	5,840		20.0	55.5	1
01667	Sodium	7440-23-5	1,240		41.4	111	1
07968	Strontium	7440-24-6	133		0.0688	0.555	1
06969	Tin	7440-31-5	394		1.11	11.1	1
06970	Titanium	7440-32-6	1,610		0.422	1.11	1
10146	Zirconium	7440-67-7	108		0.932	5.55	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.887		0.0666	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.93		0.0888	0.444	2
06126	Barium	7440-39-3	166		0.120	0.444	2
06127	Beryllium	7440-41-7	1.86		0.0178	0.111	2
06128	Cadmium	7440-43-9	1.63		0.0444	0.111	2
06131	Chromium	7440-47-3	39.8		0.133	0.444	2
06132	Cobalt	7440-48-4	70.1		0.0222	0.111	2
06133	Copper	7440-50-8	23.1		0.0739	0.448	2
06135	Lead	7439-92-1	16.5		0.0115	0.222	2
06138	Molybdenum	7439-98-7	15.4		0.0555	0.111	2
06139	Nickel	7440-02-0	30.4		0.111	0.444	2
06141	Selenium	7782-49-2	3.10		0.0444	0.444	2
06142	Silver	7440-22-4	13.9		0.0133	0.111	2
06145	Thallium	7440-28-0	0.906		0.0333	0.111	2
06148	Vanadium	7440-62-2	59.9		0.0244	0.111	2
06149	Zinc	7440-66-6	98.8		0.621	3.33	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.187		0.0032	0.110	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5A-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220793
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11067SLA026	03/11/2011 21:35	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/18/2011 19:59	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLD026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11067SLA026	03/08/2011 13:30	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110740020A	03/18/2011 21:34	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/21/2011 22:33	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690007A	03/16/2011 05:13	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110690028A	03/11/2011 12:30	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690007A	03/10/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110740020A	03/16/2011 23:50	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 17:57	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 16:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 16:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 16:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 16:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 16:06	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220793
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 16:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 16:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 08:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/12/2011 16:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 16:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 16:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 16:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 16:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110681026002A	03/12/2011 16:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 16:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110681026002A	03/12/2011 16:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 05:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5A-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220794
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		5.69	22.6	1
07914	Boron	7440-42-8	3.17	J	1.01	5.66	1
01650	Calcium	7440-70-2	3,110		6.94	22.6	1
01654	Iron	7439-89-6	23,500		5.33	22.6	1
01656	Lithium	7439-93-2	27.6		0.25	2.3	1
01657	Magnesium	7439-95-4	5,550		2.87	11.3	1
06958	Manganese	7439-96-5	370		0.0883	0.566	1
10145	Phosphorus	7723-14-0	678		0.634	11.3	1
01662	Potassium	7440-09-7	4,490		20.4	56.6	1
01667	Sodium	7440-23-5	82.7	J	42.2	113	1
07968	Strontium	7440-24-6	19.7		0.0702	0.566	1
06969	Tin	7440-31-5	2.84	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,290		0.430	1.13	1
10146	Zirconium	7440-67-7	1.61	J	0.950	5.66	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0659	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.87		0.0879	0.440	2
06126	Barium	7440-39-3	112		0.119	0.440	2
06127	Beryllium	7440-41-7	0.506		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.223		0.0440	0.110	2
06131	Chromium	7440-47-3	19.5		0.132	0.440	2
06132	Cobalt	7440-48-4	5.26		0.0220	0.110	2
06133	Copper	7440-50-8	14.6		0.0747	0.453	2
06135	Lead	7439-92-1	9.69		0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.619		0.0549	0.110	2
06139	Nickel	7440-02-0	13.1		0.110	0.440	2
06141	Selenium	7782-49-2	0.130	J	0.0440	0.440	2
06142	Silver	7440-22-4	0.109	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.234		0.0330	0.110	2
06148	Vanadium	7440-62-2	33.8		0.0242	0.110	2
06149	Zinc	7440-66-6	67.3		0.615	3.30	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5A-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220794
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	391	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.34	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 17:49	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 16:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 16:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 16:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 16:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 16:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 16:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 16:00	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5A-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220794
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9505 SDG#: DE095-05DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 08:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/12/2011 16:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 16:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 16:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 16:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 16:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110681026002A	03/12/2011 16:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 16:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110681026002A	03/12/2011 16:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 05:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11074495201A	03/17/2011 15:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11069069201A	03/15/2011 15:12	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243202A	03/08/2011 19:49	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11074495201A	03/15/2011 23:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11069069201A	03/10/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182101A	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401A	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-176-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5A-SS-0.0-0.3

LLI Sample # SW 6220795
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:49

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9506 SDG#: DE095-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	74	J	19	190	1
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	21	J	19	190	1
04688	Di-n-butylphthalate	84-74-2	780		19	190	1
04688	Carbazole	86-74-8	98	J	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	35	J	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Fluorene	86-73-7	62	J	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	1-Methylnaphthalene	90-12-0	25	J	19	190	1
04688	2-Methylnaphthalene	91-57-6	21	J	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-176-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5A-SS-0.0-0.3

LLI Sample # SW 6220795
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:49

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9506 SDG#: DE095-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthylene	208-96-8	4.9	J	1.9	9.3	5
10138	Anthracene	120-12-7	200		1.9	9.3	5
10138	Benzo(a)anthracene	56-55-3	1,300		3.7	9.3	5
10138	Benzo(a)pyrene	50-32-8	870		3.7	9.3	5
10138	Benzo(b)fluoranthene	205-99-2	1,600		3.7	9.3	5
10138	Benzo(g,h,i)perylene	191-24-2	180		3.7	9.3	5
10138	Benzo(k)fluoranthene	207-08-9	660		3.7	9.3	5
10138	Chrysene	218-01-9	1,200		1.9	9.3	5
10138	Dibenz(a,h)anthracene	53-70-3	78		3.7	9.3	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	280		34	100	5
10138	Fluoranthene	206-44-0	1,900		37	93	50
10138	Indeno(1,2,3-cd)pyrene	193-39-5	190		3.7	9.3	5
10138	Naphthalene	91-20-3	13		3.7	9.3	5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3	5
10138	Di-n-octylphthalate	117-84-0	68	J	34	100	5
10138	Phenanthrene	85-01-8	840		3.7	9.3	5
10138	Pyrene	129-00-0	1,400		37	93	50
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	15	U	15	15	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	1.0	U	1.0	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	170	J	85	280	1
10401	MCPP (Mecoprop)	93-65-2	390		84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19	1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-176-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5A-SS-0.0-0.3

LLI Sample # SW 6220795
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:49

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9506 SDG#: DE095-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6	1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	
01363	Aldrin	309-00-2	1.5	U	1.5	3.7	20
01363	Alpha BHC	319-84-6	0.76	U	0.76	3.7	20
01363	Beta BHC	319-85-7	1.3	U	1.3	3.7	20
01363	Gamma BHC - Lindane	58-89-9	0.76	U	0.76	3.7	20
01363	Chlordane	57-74-9	18	U	18	76	20
01363	p,p-DDD	72-54-8	4.1	U	4.1	7.6	20
01363	p,p-DDE	72-55-9	1.5	U	1.5	7.6	20
01363	p,p-DDT	50-29-3	12	U	12	12	20
01363	Delta BHC	319-86-8	0.80	U	0.80	3.7	20
01363	Dieldrin	60-57-1	1.5	U	1.5	7.6	20
01363	Endosulfan I	959-98-8	0.98	U	0.98	3.7	20
01363	Endosulfan II	33213-65-9	2.2	U	2.2	7.6	20
01363	Endosulfan Sulfate	1031-07-8	1.5	U	1.5	7.6	20
01363	Endrin	72-20-8	1.5	U	1.5	7.6	20
01363	Endrin Aldehyde	7421-93-4	2.7	U	2.7	7.6	20
01363	Endrin Ketone	53494-70-5	1.5	U	1.5	7.6	20
01363	Heptachlor	76-44-8	1.3	U	1.3	3.7	20
01363	Heptachlor Epoxide	1024-57-3	0.76	U	0.76	3.7	20
01363	Methoxychlor	72-43-5	170	U	170	170	20
01363	Mirex	2385-85-5	19	U	19	19	20
01363	Toxaphene	8001-35-2	49	U	49	150	20

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	11	U	11	37	10
10225	Aroclor 5442	12642-23-8	11	U	11	37	10
10225	Aroclor 5460	11126-42-4	74		11	37	10
10225	PCB-1016	12674-11-2	3.7	U	3.7	19	10
10225	PCB-1221	11104-28-2	3.7	U	3.7	19	10
10225	PCB-1232	11141-16-5	3.7	U	3.7	19	10
10225	PCB-1242	53469-21-9	3.7	U	3.7	19	10
10225	PCB-1248	12672-29-6	3.7	U	3.7	19	10
10225	PCB-1254	11097-69-1	37		3.7	19	10
10225	PCB-1260	11096-82-5	24		4.4	19	10
10225	PCB-1262	37324-23-5	3.7	U	3.7	19	10
10225	PCB-1268	11100-14-4	3.7	U	3.7	19	10

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Sample Description: SL-176-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5A-SS-0.0-0.3

LLI Sample # SW 6220795
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:49

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Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9506 SDG#: DE095-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		5.47	21.8	1
07914	Boron	7440-42-8	8.03		0.969	5.44	1
01650	Calcium	7440-70-2	15,000		6.67	21.8	1
01654	Iron	7439-89-6	31,000		10.3	43.5	2
01656	Lithium	7439-93-2	15.4		0.24	2.2	1
01657	Magnesium	7439-95-4	4,370		2.76	10.9	1
06958	Manganese	7439-96-5	327		0.0849	0.544	1
10145	Phosphorus	7723-14-0	504		0.610	10.9	1
01662	Potassium	7440-09-7	2,910		19.6	54.4	1
01667	Sodium	7440-23-5	288		40.6	109	1
07968	Strontium	7440-24-6	44.2		0.0675	0.544	1
06969	Tin	7440-31-5	5.57	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,000		0.414	1.09	1
10146	Zirconium	7440-67-7	1.64	J	0.914	5.44	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.400		0.0666	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.25		0.0888	0.444	2
06126	Barium	7440-39-3	130		0.120	0.444	2
06127	Beryllium	7440-41-7	0.404		0.0178	0.111	2
06128	Cadmium	7440-43-9	1.79		0.0444	0.111	2
06131	Chromium	7440-47-3	33.7		0.133	0.444	2
06132	Cobalt	7440-48-4	7.24		0.0222	0.111	2
06133	Copper	7440-50-8	26.0		0.0711	0.431	2
06135	Lead	7439-92-1	55.6		0.0115	0.222	2
06138	Molybdenum	7439-98-7	2.17		0.0555	0.111	2
06139	Nickel	7440-02-0	24.7		0.111	0.444	2
06141	Selenium	7782-49-2	0.167	J	0.0444	0.444	2
06142	Silver	7440-22-4	1.65		0.0133	0.111	2
06145	Thallium	7440-28-0	0.308		0.0333	0.111	2
06148	Vanadium	7440-62-2	38.3		0.0244	0.111	2
06149	Zinc	7440-66-6	381		1.55	8.32	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.391		0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-176-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5A-SS-0.0-0.3

LLI Sample # SW 6220795
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:49

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

E9506 SDG#: DE095-06

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	367	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.82	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	10.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11067SLA026	03/11/2011 22:00	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/18/2011 22:38	Gregory J Drahovsky	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/19/2011 09:59	Joseph M Gambler	50
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLD026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11067SLA026	03/08/2011 13:30	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110740020A	03/19/2011 00:46	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110710012A	03/15/2011 14:56	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/21/2011 22:46	Jamie L Brillhart	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690007A	03/16/2011 05:36	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110690028A	03/11/2011 12:30	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690007A	03/10/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110740020A	03/16/2011 23:50	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110710012A	03/14/2011 09:25	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 18:28	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-176-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5A-SS-0.0-0.3

LLI Sample # SW 6220795
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:49

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14420 Albemarle Point Place
Suite 210
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E9506 SDG#: DE095-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 18:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 18:28	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 23:27	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 18:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 18:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 18:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 18:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 18:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 18:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 18:28	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 18:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 18:28	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 18:28	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 16:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 16:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 16:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 16:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 16:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 16:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 16:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 09:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/12/2011 16:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 16:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 16:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 16:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 16:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110681026002A	03/12/2011 16:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 16:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110681026002A	03/16/2011 09:27	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 05:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11074495201A	03/17/2011 17:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11069069201A	03/15/2011 17:36	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243202A	03/08/2011 20:08	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11074495201A	03/15/2011 23:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11069069201A	03/10/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182101A	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401A	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-176-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5A-SS-0.0-0.3

LLI Sample # SW 6220795
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:49

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9506 SDG#: DE095-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-178-SA5A-SS-0.0-0.4 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA5A-SS-0.0-0.4

LLI Sample # SW 6220796
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:17

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9507 SDG#: DE095-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	67	J	18	180	1
04688	Aniline	62-53-3	180	U	180	530	1
04688	Anthracene	120-12-7	99	J	18	180	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	350		18	180	1
04688	Benzo(a)pyrene	50-32-8	330		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	210		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	250		18	180	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Carbazole	86-74-8	58	J	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Chrysene	218-01-9	440		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	73	J	18	180	1
04688	Dibenzofuran	132-64-9	21	J	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Fluoranthene	206-44-0	650		18	180	1
04688	Fluorene	86-73-7	37	J	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	200		18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-178-SA5A-SS-0.0-0.4 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA5A-SS-0.0-0.4

LLI Sample # SW 6220796
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:17

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9507 SDG#: DE095-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenanthrene	85-01-8	450		18	180	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	620		18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8	5
10138	Benzo(b)fluoranthene	205-99-2	630		3.5	8.8	5
10138	Di-n-butylphthalate	84-74-2	2,500		320	950	50
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	95		32	95	5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8	5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8	5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8	5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	4.9	U	4.9	4.9	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	310		80	260	1
10401	MCPP (Mecoprop)	93-65-2	100	U	100	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-178-SA5A-SS-0.0-0.4 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5A-SS-0.0-0.4

LLI Sample # SW 6220796
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:17

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9507 SDG#: DE095-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	3.5	U	3.5	8.8	50
01363	Alpha BHC	319-84-6	1.8	U	1.8	8.8	50
01363	Beta BHC	319-85-7	3.2	U	3.2	8.8	50
01363	Gamma BHC - Lindane	58-89-9	1.8	U	1.8	8.8	50
01363	Chlordane	57-74-9	42	U	42	180	50
01363	p,p-DDD	72-54-8	3.5	U	3.5	18	50
01363	p,p-DDE	72-55-9	3.5	U	3.5	18	50
01363	p,p-DDT	50-29-3	130	U	130	130	50
01363	Delta BHC	319-86-8	1.9	U	1.9	8.8	50
01363	Dieldrin	60-57-1	30	U	30	30	50
01363	Endosulfan I	959-98-8	2.3	U	2.3	8.8	50
01363	Endosulfan II	33213-65-9	6.7	U	6.7	18	50
01363	Endosulfan Sulfate	1031-07-8	3.5	U	3.5	18	50
01363	Endrin	72-20-8	15	U	15	18	50
01363	Endrin Aldehyde	7421-93-4	64	U	64	64	50
01363	Endrin Ketone	53494-70-5	3.5	U	3.5	18	50
01363	Heptachlor	76-44-8	3.2	U	3.2	8.8	50
01363	Heptachlor Epoxide	1024-57-3	1.8	U	1.8	8.8	50
01363	Methoxychlor	72-43-5	18	U	18	88	50
01363	Mirex	2385-85-5	44	U	44	44	50
01363	Toxaphene	8001-35-2	120	U	120	350	50

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	210	U	210	700	200
10225	Aroclor 5442	12642-23-8	210	U	210	700	200
10225	Aroclor 5460	11126-42-4	210	U	210	700	200
10225	PCB-1016	12674-11-2	70	U	70	360	200
10225	PCB-1221	11104-28-2	70	U	70	360	200
10225	PCB-1232	11141-16-5	70	U	70	360	200
10225	PCB-1242	53469-21-9	70	U	70	360	200
10225	PCB-1248	12672-29-6	70	U	70	360	200
10225	PCB-1254	11097-69-1	70	U	70	360	200
10225	PCB-1260	11096-82-5	2,300		83	360	200
10225	PCB-1262	37324-23-5	70	U	70	360	200
10225	PCB-1268	11100-14-4	70	U	70	360	200
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,100		5.22	20.7	1
07914	Boron	7440-42-8	4.10	J	0.923	5.19	1
01650	Calcium	7440-70-2	17,600		6.36	20.7	1
01654	Iron	7439-89-6	28,500		9.77	41.5	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-178-SA5A-SS-0.0-0.4 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5A-SS-0.0-0.4

LLI Sample # SW 6220796
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:17

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9507 SDG#: DE095-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	20.1		0.23	2.1	1
01657	Magnesium	7439-95-4	5,980		2.64	10.4	1
06958	Manganese	7439-96-5	361		0.0809	0.519	1
10145	Phosphorus	7723-14-0	505		0.581	10.4	1
01662	Potassium	7440-09-7	3,360		18.7	51.9	1
01667	Sodium	7440-23-5	672		38.7	104	1
07968	Strontium	7440-24-6	50.9		0.0643	0.519	1
06969	Tin	7440-31-5	3.17	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,320		0.394	1.04	1
10146	Zirconium	7440-67-7	0.925	J	0.871	5.19	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.390		0.0629	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.39		0.0838	0.419	2
06126	Barium	7440-39-3	131		0.113	0.419	2
06127	Beryllium	7440-41-7	0.541		0.0168	0.105	2
06128	Cadmium	7440-43-9	1.20		0.0419	0.105	2
06131	Chromium	7440-47-3	56.3		0.126	0.419	2
06132	Cobalt	7440-48-4	8.89		0.0210	0.105	2
06133	Copper	7440-50-8	117		0.0691	0.419	2
06135	Lead	7439-92-1	46.5		0.0109	0.210	2
06138	Molybdenum	7439-98-7	2.94		0.0524	0.105	2
06139	Nickel	7440-02-0	30.9		0.105	0.419	2
06141	Selenium	7782-49-2	0.162	J	0.0419	0.419	2
06142	Silver	7440-22-4	0.162		0.0126	0.105	2
06145	Thallium	7440-28-0	0.242		0.0314	0.105	2
06148	Vanadium	7440-62-2	52.0		0.0230	0.105	2
06149	Zinc	7440-66-6	172		0.587	3.14	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.260		0.0028	0.0994	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	356		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-178-SA5A-SS-0.0-0.4 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5A-SS-0.0-0.4

LLI Sample # SW 6220796
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:17

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9507 SDG#: DE095-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	9.39	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11067SLA026	03/11/2011 22:25	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/18/2011 23:09	Gregory J Drahovsky	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/19/2011 10:30	Joseph M Gambler	50
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLD026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11067SLA026	03/08/2011 13:30	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110740020A	03/19/2011 01:13	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/21/2011 22:59	Jamie L Brillhart	50
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690007A	03/16/2011 05:59	Lindsey K Lafferty	200
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110690028A	03/11/2011 12:30	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690007A	03/10/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110740020A	03/16/2011 23:50	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 18:32	John P Hook	1
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 18:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 18:32	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 23:31	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 18:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 18:32	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-178-SA5A-SS-0.0-0.4 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5A-SS-0.0-0.4

LLI Sample # SW 6220796
LLI Group # 1235570
Account # 13013

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9507 SDG#: DE095-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 18:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 18:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 18:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 18:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 18:32	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 18:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 18:32	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 18:32	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 16:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 16:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 16:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 16:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 16:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 16:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 16:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 09:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/12/2011 16:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 16:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 16:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 16:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 16:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110681026002A	03/12/2011 16:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 16:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110681026002A	03/12/2011 16:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 05:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11074495201A	03/17/2011 17:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11069069201A	03/15/2011 18:00	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243202A	03/08/2011 20:26	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11074495201A	03/15/2011 23:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11069069201A	03/10/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182101A	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401A	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-179-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5A-SS-0.0-0.3

LLI Sample # SW 6220797
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9508 SDG#: DE095-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzo(g,h,i)perylene	191-24-2	21	J	18	180	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-179-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5A-SS-0.0-0.3

LLI Sample # SW 6220797
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E9508 SDG#: DE095-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.9	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9	5
10138	Anthracene	120-12-7	1.8	U	1.8	8.9	5
10138	Benzo(a)anthracene	56-55-3	14		3.5	8.9	5
10138	Benzo(a)pyrene	50-32-8	14		3.5	8.9	5
10138	Benzo(b)fluoranthene	205-99-2	37		3.5	8.9	5
10138	Benzo(k)fluoranthene	207-08-9	11		3.5	8.9	5
10138	Di-n-butylphthalate	84-74-2	58	J	32	96	5
10138	Chrysene	218-01-9	21		1.8	8.9	5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.9	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	160		32	96	5
10138	Fluoranthene	206-44-0	20		3.5	8.9	5
10138	Fluorene	86-73-7	3.5	U	3.5	8.9	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.6	J	3.5	8.9	5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.9	5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.9	5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.9	5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.9	5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.9	5
10138	Pyrene	129-00-0	20		3.5	8.9	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5	1
10401	2,4-DB	94-82-6	2.2		0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	80	U	80	260	1
10401	MCPP (Mecoprop)	93-65-2	250	J	79	260	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						

Sample Description: SL-179-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5A-SS-0.0-0.3

LLI Sample # SW 6220797
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E9508 SDG#: DE095-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.35	U	0.35	0.88	5
01363	Alpha BHC	319-84-6	0.18	U	0.18	0.88	5
01363	Beta BHC	319-85-7	0.32	U	0.32	0.88	5
01363	Gamma BHC - Lindane	58-89-9	0.18	U	0.18	0.88	5
01363	Chlordane	57-74-9	4.3	U	4.3	18	5
01363	p,p-DDD	72-54-8	0.35	U	0.35	1.8	5
01363	p,p-DDE	72-55-9	4.5		0.35	1.8	5
01363	p,p-DDT	50-29-3	5.6		0.35	1.8	5
01363	Delta BHC	319-86-8	0.19	U	0.19	0.88	5
01363	Dieldrin	60-57-1	0.54	U	0.54	1.8	5
01363	Endosulfan I	959-98-8	0.23	U	0.23	0.88	5
01363	Endosulfan II	33213-65-9	0.35	U	0.35	1.8	5
01363	Endosulfan Sulfate	1031-07-8	0.35	U	0.35	1.8	5
01363	Endrin	72-20-8	0.35	U	0.35	1.8	5
01363	Endrin Aldehyde	7421-93-4	0.71	U	0.71	1.8	5
01363	Endrin Ketone	53494-70-5	0.35	U	0.35	1.8	5
01363	Heptachlor	76-44-8	0.32	U	0.32	0.88	5
01363	Heptachlor Epoxide	1024-57-3	0.22	U	0.22	0.88	5
01363	Methoxychlor	72-43-5	1.8	U	1.8	8.8	5
01363	Mirex	2385-85-5	0.85	U	0.85	1.8	5
01363	Toxaphene	8001-35-2	12	U	12	35	5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	32		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	12		0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	19		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,200		5.31	21.1	1
07914	Boron	7440-42-8	4.52	J	0.939	5.28	1
01650	Calcium	7440-70-2	17,700		6.47	21.1	1
01654	Iron	7439-89-6	28,200		9.94	42.2	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-179-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5A-SS-0.0-0.3

LLI Sample # SW 6220797
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:00

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9508 SDG#: DE095-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	18.2		0.23	2.1	1
01657	Magnesium	7439-95-4	5,450		2.68	10.6	1
06958	Manganese	7439-96-5	324		0.0823	0.528	1
10145	Phosphorus	7723-14-0	442		0.591	10.6	1
01662	Potassium	7440-09-7	3,060		19.0	52.8	1
01667	Sodium	7440-23-5	474		39.4	106	1
07968	Strontium	7440-24-6	68.4		0.0654	0.528	1
06969	Tin	7440-31-5	3.01	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,140		0.401	1.06	1
10146	Zirconium	7440-67-7	1.48	J	0.887	5.28	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.405		0.0615	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.45		0.0820	0.410	2
06126	Barium	7440-39-3	132		0.111	0.410	2
06127	Beryllium	7440-41-7	0.504		0.0164	0.103	2
06128	Cadmium	7440-43-9	7.18		0.0410	0.103	2
06131	Chromium	7440-47-3	33.4		0.123	0.410	2
06132	Cobalt	7440-48-4	8.97		0.0205	0.103	2
06133	Copper	7440-50-8	20.7		0.0683	0.414	2
06135	Lead	7439-92-1	110		0.0267	0.513	5
06138	Molybdenum	7439-98-7	2.69		0.0513	0.103	2
06139	Nickel	7440-02-0	21.7		0.103	0.410	2
06141	Selenium	7782-49-2	0.165	J	0.0410	0.410	2
06142	Silver	7440-22-4	0.247		0.0123	0.103	2
06145	Thallium	7440-28-0	0.234		0.0308	0.103	2
06148	Vanadium	7440-62-2	51.3		0.0226	0.103	2
06149	Zinc	7440-66-6	137		0.574	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.999		0.0151	0.526	5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	359		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-179-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5A-SS-0.0-0.3

LLI Sample # SW 6220797
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:00

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9508 SDG#: DE095-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	9.04	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11067SLA026	03/12/2011 03:07	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/18/2011 23:41	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLD026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11067SLA026	03/08/2011 13:30	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110740020A	03/19/2011 01:41	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/23/2011 08:05	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690007A	03/16/2011 06:22	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110690028A	03/11/2011 12:30	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690007A	03/10/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110740020A	03/16/2011 23:50	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 18:37	John P Hook	1
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 18:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 18:37	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 23:35	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 18:37	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 18:37	John P Hook	1
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 18:37	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-179-SA5A-SS-0.0-0.3 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5A-SS-0.0-0.3

LLI Sample # SW 6220797
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:00

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9508 SDG#: DE095-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 18:37	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 18:37	John P Hook	1
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 18:37	John P Hook	1
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 18:37	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 18:37	John P Hook	1
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 18:37	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 18:37	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 16:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 16:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 16:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 16:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 16:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 16:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 16:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 09:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/16/2011 09:29	Choon Y Tian	5
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 16:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 16:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 16:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 16:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	110681026002A	03/16/2011 09:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 16:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110681026002A	03/12/2011 16:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 06:17	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11074495201A	03/17/2011 18:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11069069201A	03/15/2011 18:24	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243202A	03/08/2011 20:45	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11074495201A	03/15/2011 23:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11069069201A	03/10/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182101A	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401A	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-186-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SS-0.0-0.5

LLI Sample # SW 6220799
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 13:25

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9510 SDG#: DE095-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	78	U	78	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	78	U	78	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-186-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SS-0.0-0.5

LLI Sample # SW 6220799
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 13:25

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9510 SDG#: DE095-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.0	U	4.0	9.9	5
10138	Acenaphthylene	208-96-8	3.6	J	2.0	9.9	5
10138	Anthracene	120-12-7	28		2.0	9.9	5
10138	Benzo(a)anthracene	56-55-3	220		4.0	9.9	5
10138	Benzo(a)pyrene	50-32-8	250		4.0	9.9	5
10138	Benzo(b)fluoranthene	205-99-2	580		4.0	9.9	5
10138	Benzo(g,h,i)perylene	191-24-2	84		4.0	9.9	5
10138	Benzo(k)fluoranthene	207-08-9	4.0	U	4.0	9.9	5
10138	Butylbenzylphthalate	85-68-7	48	J	36	110	5
10138	Di-n-butylphthalate	84-74-2	2,900		360	1,100	50
10138	Chrysene	218-01-9	620		2.0	9.9	5
10138	Dibenz(a,h)anthracene	53-70-3	53		4.0	9.9	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	110		36	110	5
10138	Fluoranthene	206-44-0	240		4.0	9.9	5
10138	Fluorene	86-73-7	4.7	J	4.0	9.9	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	57		4.0	9.9	5
10138	1-Methylnaphthalene	90-12-0	46		4.0	9.9	5
10138	2-Methylnaphthalene	91-57-6	100		4.0	9.9	5
10138	Naphthalene	91-20-3	48		4.0	9.9	5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	9.9	5
10138	Di-n-octylphthalate	117-84-0	72	J	36	110	5
10138	Phenanthrene	85-01-8	280		4.0	9.9	5
10138	Pyrene	129-00-0	280		4.0	9.9	5

Reporting limits were raised due to interference from the sample matrix.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	8.5		0.74	2.0	1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4	1
10401	Dinoseb	88-85-7	3.5	U	3.5	3.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.95	U	0.95	2.0	1
10401	MCPA	94-74-6	460		90	300	1
10401	MCPP (Mecoprop)	93-65-2	360	U	360	360	1
10401	2,4,5-T	93-76-5	0.098	U	0.098	0.20	1
10401	2,4,5-TP	93-72-1	0.19	U	0.19	0.20	1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

Sample Description: SL-186-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SS-0.0-0.5

LLI Sample # SW 6220799
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 13:25

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9510 SDG#: DE095-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.78	U	0.78	2.0	10
01363	Alpha BHC	319-84-6	0.40	U	0.40	2.0	10
01363	Beta BHC	319-85-7	0.71	U	0.71	2.0	10
01363	Gamma BHC - Lindane	58-89-9	0.40	U	0.40	2.0	10
01363	Chlordane	57-74-9	20	U	20	40	10
01363	p,p-DDD	72-54-8	0.78	U	0.78	4.0	10
01363	p,p-DDE	72-55-9	0.78	U	0.78	4.0	10
01363	p,p-DDT	50-29-3	3.2	U	3.2	4.0	10
01363	Delta BHC	319-86-8	0.43	U	0.43	2.0	10
01363	Dieldrin	60-57-1	0.78	U	0.78	4.0	10
01363	Endosulfan I	959-98-8	0.52	U	0.52	2.0	10
01363	Endosulfan II	33213-65-9	0.78	U	0.78	4.0	10
01363	Endosulfan Sulfate	1031-07-8	0.78	U	0.78	4.0	10
01363	Endrin	72-20-8	0.78	U	0.78	4.0	10
01363	Endrin Aldehyde	7421-93-4	0.78	U	0.78	4.0	10
01363	Endrin Ketone	53494-70-5	2.7	U	2.7	4.0	10
01363	Heptachlor	76-44-8	0.71	U	0.71	2.0	10
01363	Heptachlor Epoxide	1024-57-3	0.41	U	0.41	2.0	10
01363	Methoxychlor	72-43-5	4.0	U	4.0	20	10
01363	Mirex	2385-85-5	3.5	U	3.5	4.0	10
01363	Toxaphene	8001-35-2	26	U	26	78	10

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.0	U	6.0	20	5
10225	Aroclor 5442	12642-23-8	6.0	U	6.0	20	5
10225	Aroclor 5460	11126-42-4	120		6.0	20	5
10225	PCB-1016	12674-11-2	2.0	U	2.0	10	5
10225	PCB-1221	11104-28-2	2.0	U	2.0	10	5
10225	PCB-1232	11141-16-5	2.0	U	2.0	10	5
10225	PCB-1242	53469-21-9	2.0	U	2.0	10	5
10225	PCB-1248	12672-29-6	2.0	U	2.0	10	5
10225	PCB-1254	11097-69-1	2.0	U	2.0	10	5
10225	PCB-1260	11096-82-5	83		2.3	10	5
10225	PCB-1262	37324-23-5	2.0	U	2.0	10	5
10225	PCB-1268	11100-14-4	2.0	U	2.0	10	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		5.93	23.6	1
07914	Boron	7440-42-8	6.65		1.05	5.89	1
01650	Calcium	7440-70-2	6,550		7.23	23.6	1
01654	Iron	7439-89-6	18,500		5.55	23.6	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-186-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SS-0.0-0.5

LLI Sample # SW 6220799
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 13:25

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9510 SDG#: DE095-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	16.7		0.26	2.4	1
01657	Magnesium	7439-95-4	3,990		2.99	11.8	1
06958	Manganese	7439-96-5	244		0.0919	0.589	1
10145	Phosphorus	7723-14-0	508		0.660	11.8	1
01662	Potassium	7440-09-7	3,140		21.2	58.9	1
01667	Sodium	7440-23-5	254		44.0	118	1
07968	Strontium	7440-24-6	35.9		0.0731	0.589	1
06969	Tin	7440-31-5	2.79	J	1.18	11.8	1
06970	Titanium	7440-32-6	1,040		0.448	1.18	1
10146	Zirconium	7440-67-7	1.86	J	0.990	5.89	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.623		0.0693	0.231	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.80		0.0925	0.462	2
06126	Barium	7440-39-3	147		0.125	0.462	2
06127	Beryllium	7440-41-7	0.456		0.0185	0.116	2
06128	Cadmium	7440-43-9	0.627		0.0462	0.116	2
06131	Chromium	7440-47-3	20.0		0.139	0.462	2
06132	Cobalt	7440-48-4	7.27		0.0231	0.116	2
06133	Copper	7440-50-8	11.3		0.0755	0.458	2
06135	Lead	7439-92-1	15.8		0.0120	0.231	2
06138	Molybdenum	7439-98-7	0.785		0.0578	0.116	2
06139	Nickel	7440-02-0	24.5		0.116	0.462	2
06141	Selenium	7782-49-2	0.255	J	0.0462	0.462	2
06142	Silver	7440-22-4	6.58		0.0139	0.116	2
06145	Thallium	7440-28-0	0.227		0.0347	0.116	2
06148	Vanadium	7440-62-2	49.5		0.0254	0.116	2
06149	Zinc	7440-66-6	161		1.62	8.67	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.109	J	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	369		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-186-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SS-0.0-0.5

LLI Sample # SW 6220799
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 13:25

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9510 SDG#: DE095-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.40	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11067SLA026	03/12/2011 03:31	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/19/2011 00:12	Gregory J Drahovsky	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/19/2011 11:01	Joseph M Gambler	50
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLD026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11067SLA026	03/08/2011 13:30	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110740020A	03/19/2011 02:08	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/23/2011 11:04	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690007A	03/16/2011 06:45	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110690028A	03/11/2011 12:30	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690007A	03/10/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110740020A	03/16/2011 23:50	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-186-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SS-0.0-0.5

LLI Sample # SW 6220799
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 13:25

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9510 SDG#: DE095-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 18:41	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 16:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 16:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 16:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 16:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 16:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 16:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 16:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 09:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/12/2011 16:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 16:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 16:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 16:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 16:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110681026002A	03/12/2011 16:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 16:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	110681026002A	03/16/2011 16:08	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 06:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11074495201A	03/17/2011 18:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11069069201A	03/15/2011 18:48	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243202A	03/08/2011 20:51	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11074495201A	03/15/2011 23:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11069069201A	03/10/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182101A	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401A	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-188-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SS-0.0-0.5

LLI Sample # SW 6220800
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:01

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9511 SDG#: DE095-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-188-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SS-0.0-0.5

LLI Sample # SW 6220800
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:01

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9511 SDG#: DE095-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3	5
10138	Acenaphthylene	208-96-8	7.4	J	1.9	9.3	5
10138	Anthracene	120-12-7	15		1.9	9.3	5
10138	Benzo(a)anthracene	56-55-3	61		3.7	9.3	5
10138	Benzo(a)pyrene	50-32-8	230		3.7	9.3	5
10138	Benzo(b)fluoranthene	205-99-2	710		3.7	9.3	5
10138	Benzo(g,h,i)perylene	191-24-2	150		3.7	9.3	5
10138	Benzo(k)fluoranthene	207-08-9	63		3.7	9.3	5
10138	Di-n-butylphthalate	84-74-2	61	J	33	100	5
10138	Chrysene	218-01-9	520		1.9	9.3	5
10138	Dibenz(a,h)anthracene	53-70-3	50		3.7	9.3	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33	U	33	100	5
10138	Fluoranthene	206-44-0	170		3.7	9.3	5
10138	Fluorene	86-73-7	3.7	U	3.7	9.3	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	230		3.7	9.3	5
10138	1-Methylnaphthalene	90-12-0	13		3.7	9.3	5
10138	2-Methylnaphthalene	91-57-6	19		3.7	9.3	5
10138	Naphthalene	91-20-3	9.9		3.7	9.3	5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3	5
10138	Phenanthrene	85-01-8	150		3.7	9.3	5
10138	Pyrene	129-00-0	78		3.7	9.3	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	5.9		0.69	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	190	J	85	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.14	J	0.084	0.19	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-188-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SS-0.0-0.5

LLI Sample # SW 6220800
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:01

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9511 SDG#: DE095-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	3.0	U	3.0	3.8	1
01363	p,p-DDD	72-54-8	0.52	U	0.52	0.52	1
01363	p,p-DDE	72-55-9	0.44	U	0.44	0.44	1
01363	p,p-DDT	50-29-3	2.6	U	2.6	2.6	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.30	U	0.30	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.50	U	0.50	0.50	1
01363	Endrin Ketone	53494-70-5	1.3	U	1.3	1.3	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.14	U	0.14	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	1.5	U	1.5	1.5	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	5.0		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	14		0.37	1.9	1
10225	PCB-1260	11096-82-5	3.5		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,500		5.54	22.0	1
07914	Boron	7440-42-8	7.83		0.980	5.51	1
01650	Calcium	7440-70-2	4,190		6.75	22.0	1
01654	Iron	7439-89-6	23,900		5.19	22.0	1
01656	Lithium	7439-93-2	22.8		0.24	2.2	1
01657	Magnesium	7439-95-4	4,540		2.80	11.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-188-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SS-0.0-0.5

LLI Sample # SW 6220800
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:01

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9511 SDG#: DE095-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	309		0.0859	0.551	1
10145	Phosphorus	7723-14-0	379		0.617	11.0	1
01662	Potassium	7440-09-7	3,460		19.8	55.1	1
01667	Sodium	7440-23-5	335		41.1	110	1
07968	Strontium	7440-24-6	27.3		0.0683	0.551	1
06969	Tin	7440-31-5	2.96	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,160		0.419	1.10	1
10146	Zirconium	7440-67-7	1.61	J	0.925	5.51	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0661	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.42		0.0881	0.441	2
06126	Barium	7440-39-3	138		0.119	0.441	2
06127	Beryllium	7440-41-7	0.686		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.336		0.0441	0.110	2
06131	Chromium	7440-47-3	22.9		0.132	0.441	2
06132	Cobalt	7440-48-4	7.58		0.0220	0.110	2
06133	Copper	7440-50-8	11.7		0.0713	0.432	2
06135	Lead	7439-92-1	8.25		0.0115	0.220	2
06138	Molybdenum	7439-98-7	0.799		0.0551	0.110	2
06139	Nickel	7440-02-0	15.6		0.110	0.441	2
06141	Selenium	7782-49-2	0.168	J	0.0441	0.441	2
06142	Silver	7440-22-4	1.25		0.0132	0.110	2
06145	Thallium	7440-28-0	0.328		0.0330	0.110	2
06148	Vanadium	7440-62-2	42.8		0.0242	0.110	2
06149	Zinc	7440-66-6	104		0.617	3.30	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0687	J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	315		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-188-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SS-0.0-0.5

LLI Sample # SW 6220800
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:01

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9511 SDG#: DE095-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.99	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11067SLA026	03/12/2011 03:57	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/19/2011 11:32	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLD026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11067SLA026	03/08/2011 13:30	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110740020A	03/19/2011 02:36	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/23/2011 09:28	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690007A	03/16/2011 08:41	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110690028A	03/11/2011 12:30	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690007A	03/10/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110740020A	03/16/2011 23:50	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-188-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SS-0.0-0.5

LLI Sample # SW 6220800
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:01

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9511 SDG#: DE095-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 18:45	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 16:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 16:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 16:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 16:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 16:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 16:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 16:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 09:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/12/2011 16:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 16:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 16:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 16:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 16:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110681026002A	03/12/2011 16:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 16:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110681026002A	03/12/2011 16:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 06:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11074495201A	03/17/2011 18:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11069069201A	03/15/2011 19:37	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11066243202A	03/08/2011 21:10	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11074495201A	03/15/2011 23:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11069069201A	03/10/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182101B	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401B	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-189-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SS-0.0-0.5

LLI Sample # SW 6220801
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:15

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9512 SDG#: DE095-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200	1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	78	U	78	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	78	U	78	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-189-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SS-0.0-0.5

LLI Sample # SW 6220801
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:15

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9512 SDG#: DE095-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	20	U	20	200	1
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.8	5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	9.8	5
10138	Anthracene	120-12-7	2.0	U	2.0	9.8	5
10138	Benzo(a)anthracene	56-55-3	3.9	U	3.9	9.8	5
10138	Benzo(a)pyrene	50-32-8	3.9	U	3.9	9.8	5
10138	Benzo(b)fluoranthene	205-99-2	3.9	U	3.9	9.8	5
10138	Benzo(g,h,i)perylene	191-24-2	3.9	U	3.9	9.8	5
10138	Benzo(k)fluoranthene	207-08-9	3.9	U	3.9	9.8	5
10138	Chrysene	218-01-9	2.0	U	2.0	9.8	5
10138	Dibenz(a,h)anthracene	53-70-3	3.9	U	3.9	9.8	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	35	U	35	110	5
10138	Fluoranthene	206-44-0	3.9	U	3.9	9.8	5
10138	Fluorene	86-73-7	3.9	U	3.9	9.8	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.9	U	3.9	9.8	5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.8	5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.8	5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.8	5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.8	5
10138	Phenanthrene	85-01-8	3.9	U	3.9	9.8	5
10138	Pyrene	129-00-0	3.9	U	3.9	9.8	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	1.1	J	0.73	2.0	1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4	1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0	1
10401	MCPA	94-74-6	150	U	150	290	1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290	1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20	1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20	1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						

Sample Description: SL-189-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SS-0.0-0.5

LLI Sample # SW 6220801
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:15

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9512 SDG#: DE095-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20	1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20	1
01363	Chlordane	57-74-9	1.5	U	1.5	4.0	1
01363	p,p-DDD	72-54-8	0.11	U	0.11	0.40	1
01363	p,p-DDE	72-55-9	0.18	U	0.18	0.40	1
01363	p,p-DDT	50-29-3	0.86	U	0.86	0.86	1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20	1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40	1
01363	Endrin	72-20-8	0.078	U	0.078	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.078	U	0.078	0.40	1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40	1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0	1
01363	Mirex	2385-85-5	0.72	U	0.72	0.72	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	6.5		1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	11		0.39	2.0	1
10225	PCB-1260	11096-82-5	2.9		0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		5.90	23.5	1
07914	Boron	7440-42-8	3.85	J	1.04	5.87	1
01650	Calcium	7440-70-2	5,190		7.19	23.5	1
01654	Iron	7439-89-6	18,500		5.53	23.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-189-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SS-0.0-0.5

LLI Sample # SW 6220801
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:15

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9512 SDG#: DE095-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	16.7		0.26	2.3	1
01657	Magnesium	7439-95-4	3,620		2.98	11.7	1
06958	Manganese	7439-96-5	214		0.0915	0.587	1
10145	Phosphorus	7723-14-0	427		0.657	11.7	1
01662	Potassium	7440-09-7	2,710		21.1	58.7	1
01667	Sodium	7440-23-5	273		43.8	117	1
07968	Strontium	7440-24-6	53.9		0.0727	0.587	1
06969	Tin	7440-31-5	2.63	J	1.17	11.7	1
06970	Titanium	7440-32-6	1,010		0.446	1.17	1
10146	Zirconium	7440-67-7	4.72	J	0.985	5.87	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0704	0.235	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.28		0.0938	0.469	2
06126	Barium	7440-39-3	164		0.127	0.469	2
06127	Beryllium	7440-41-7	0.471		0.0188	0.117	2
06128	Cadmium	7440-43-9	0.184		0.0469	0.117	2
06131	Chromium	7440-47-3	19.0		0.141	0.469	2
06132	Cobalt	7440-48-4	7.25		0.0235	0.117	2
06133	Copper	7440-50-8	11.0		0.0782	0.474	2
06135	Lead	7439-92-1	8.00		0.0122	0.235	2
06138	Molybdenum	7439-98-7	0.745		0.0587	0.117	2
06139	Nickel	7440-02-0	11.6		0.117	0.469	2
06141	Selenium	7782-49-2	0.0872	J	0.0469	0.469	2
06142	Silver	7440-22-4	0.405		0.0141	0.117	2
06145	Thallium	7440-28-0	0.257		0.0352	0.117	2
06148	Vanadium	7440-62-2	48.4		0.0258	0.117	2
06149	Zinc	7440-66-6	81.0		0.657	3.52	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0979	J	0.0033	0.115	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	322		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SS-0.0-0.5

LLI Sample # SW 6220801
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:15

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9512 SDG#: DE095-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.51	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11067SLA026	03/12/2011 04:22	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLD026	03/19/2011 01:14	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLD026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11067SLA026	03/08/2011 13:30	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110740020A	03/19/2011 03:03	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110690028A	03/23/2011 10:09	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110690007A	03/16/2011 09:05	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110690028A	03/11/2011 12:30	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110690007A	03/10/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110740020A	03/16/2011 23:50	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1
07914	Boron	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1
01654	Iron	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1
01656	Lithium	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-189-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SS-0.0-0.5

LLI Sample # SW 6220801
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:15

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9512 SDG#: DE095-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1
01662	Potassium	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1
01667	Sodium	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1
07968	Strontium	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1
06969	Tin	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1
06970	Titanium	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110685708002	03/11/2011 18:49	John P Hook	1
06124	Antimony	SW-846 6020	1	110681026002A	03/12/2011 16:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110681026002A	03/12/2011 16:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110681026002D	03/12/2011 16:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110681026002A	03/12/2011 16:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110681026002A	03/12/2011 16:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110681026002A	03/12/2011 16:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110681026002A	03/12/2011 16:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110741026002A	03/16/2011 09:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110681026002A	03/12/2011 16:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110681026002C	03/12/2011 16:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110681026002A	03/12/2011 16:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110681026002B	03/12/2011 16:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110681026002A	03/12/2011 16:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110681026002A	03/12/2011 16:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110681026002A	03/12/2011 16:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110681026002A	03/12/2011 16:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110685711002	03/10/2011 06:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110685708002	03/09/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110681026002	03/09/2011 20:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110741026002	03/15/2011 13:40	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110685711002	03/10/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11074495201B	03/17/2011 18:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11069069201B	03/15/2011 20:01	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243202A	03/08/2011 21:16	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11074495201B	03/15/2011 23:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11069069201B	03/10/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182101B	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401B	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB05-SA5A-030211 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5A-030211

LLI Sample # WW 6220802
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:15

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9513 SDG#: DE095-13EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	21	U	21	64	1
04678	Benzoic acid	65-85-0	6	U	6	16	1
04678	Benzyl alcohol	100-51-6	5	U	5	16	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5	1
04678	Carbazole	86-74-8	1	U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5	1
04678	4-Chloroaniline	106-47-8	1	U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5	1
04678	2-Chlorophenol	95-57-8	1	U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5	1
04678	Dibenzofuran	132-64-9	1	U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5	1
04678	Hexachlorobenzene	118-74-1	1	U	1	5	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5	1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
04678	Hexachloroethane	67-72-1	1	U	1	5	1
04678	Isophorone	78-59-1	1	U	1	5	1
04678	2-Methylphenol	95-48-7	1	U	1	5	1
04678	4-Methylphenol	106-44-5	2	U	2	5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1	U	1	5	1
04678	3-Nitroaniline	99-09-2	1	U	1	5	1
04678	4-Nitroaniline	100-01-6	1	U	1	5	1
04678	Nitrobenzene	98-95-3	1	U	1	5	1
04678	2-Nitrophenol	88-75-5	1	U	1	5	1
04678	4-Nitrophenol	100-02-7	11	U	11	32	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3	U	3	16	1
04678	Phenol	108-95-2	1	U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB05-SA5A-030211 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5A-030211

LLI Sample # WW 6220802
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:15

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9513 SDG#: DE095-13EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053	1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053	1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053	1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053	1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053	1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053	1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053	1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053	1
10137	Butylbenzylphthalate	85-68-7	0.053	U	0.053	1.1	1
10137	Di-n-butylphthalate	84-74-2	0.34	J	0.053	1.1	1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053	1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053	1
10137	Diethylphthalate	84-66-2	0.072	J	0.053	1.1	1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.12	J	0.053	1.1	1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053	1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053	1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.053	1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.053	1
10137	Naphthalene	91-20-3	0.032	U	0.032	0.053	1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053	1
10137	Di-n-octylphthalate	117-84-0	0.053	U	0.053	1.1	1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.053	1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053	1

The following compounds were detected in the method blank at the respective concentrations of:
Diethylphthalate .053 ug/l
di-n-butylphthalate .066 ug/l
bis(2-ethylhexyl)phthalate .13 ug/l
These blank values were not subtracted from the analytical results.

Reporting limits were raised due to limited sample volume.

Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.17	U	0.17	0.54	1
10407	Dalapon	75-99-0	0.27	U	0.27	1.4	1
10407	2,4-DB	94-82-6	0.33	U	0.33	1.1	1
10407	Dicamba	1918-00-9	0.087	U	0.087	0.33	1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.54	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.54	1
10407	MCPA	94-74-6	330	U	330	1,100	1
10407	MCPP	93-65-2	54	U	54	220	1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.054	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB05-SA5A-030211 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5A-030211

LLI Sample # WW 6220802
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:15

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9513 SDG#: DE095-13EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.054	1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.010	1
00177	Alpha BHC	319-84-6	0.0030	U	0.0030	0.010	1
00177	Beta BHC	319-85-7	0.0029	U	0.0029	0.010	1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.010	1
00177	Chlordane	57-74-9	0.12	U	0.12	0.51	1
00177	p,p-DDD	72-54-8	0.0051	U	0.0051	0.020	1
00177	p,p-DDE	72-55-9	0.0051	U	0.0051	0.020	1
00177	p,p-DDT	50-29-3	0.0051	U	0.0051	0.020	1
00177	Delta BHC	319-86-8	0.0029	U	0.0029	0.010	1
00177	Dieldrin	60-57-1	0.0054	U	0.0054	0.020	1
00177	Endosulfan I	959-98-8	0.0044	U	0.0044	0.010	1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020	1
00177	Endosulfan Sulfate	1031-07-8	0.0059	U	0.0059	0.020	1
00177	Endrin	72-20-8	0.0082	U	0.0082	0.020	1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.10	1
00177	Endrin Ketone	53494-70-5	0.0051	U	0.0051	0.020	1
00177	Heptachlor	76-44-8	0.0026	U	0.0026	0.010	1
00177	Heptachlor Epoxide	1024-57-3	0.0023	U	0.0023	0.010	1
00177	Methoxychlor	72-43-5	0.030	U	0.030	0.10	1
00177	Mirex	2385-85-5	0.086	U	0.086	0.25	1
00177	Toxaphene	8001-35-2	1.0	U	1.0	3.0	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.51	1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.51	1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.51	1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.51	1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.51	1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.51	1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.51	1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.51	1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.51	1
10227	PCB-1260	11096-82-5	0.10	U	0.10	0.51	1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.51	1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.51	1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0045	J	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB05-SA5A-030211 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5A-030211

LLI Sample # WW 6220802
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:15

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9513 SDG#: DE095-13EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01767	Sodium	7440-23-5	0.433 U	0.433	1.00	1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050	1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200	1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500	1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10	1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0	1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: EB05-SA5A-030211 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA5A-030211

LLI Sample # WW 6220802
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:15

Submitted: 03/03/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9513 SDG#: DE095-13EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11062WAA026	03/10/2011	09:26	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11063WAC026	03/16/2011	05:05	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11062WAA026	03/03/2011	14:40	Kelli M Barto	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11063WAC026	03/04/2011	15:15	Kelli M Barto	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	110640003A	03/08/2011	11:20	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	110620022A	03/04/2011	17:37	Lisa A Reinert	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	110620022A	03/14/2011	18:28	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110620021A	03/10/2011	05:01	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110620021A	03/04/2011	02:45	Roman Kuropatkin	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	110620022A	03/04/2011	02:45	Roman Kuropatkin	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	110640003A	03/06/2011	09:45	Karen L Beyer	1
01743	Aluminum	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
08014	Boron	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
01750	Calcium	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
01754	Iron	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
01756	Lithium	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
01757	Magnesium	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
07058	Manganese	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
01762	Potassium	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
01767	Sodium	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
08068	Strontium	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
07069	Tin	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
07070	Titanium	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
10144	Zirconium	SW-846 6010B	1	110681848003	03/10/2011	19:43	John P Hook	1
06024	Antimony	SW-846 6020	1	110686050002A	03/15/2011	14:41	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	110686050002A	03/15/2011	14:41	Choon Y Tian	1
06026	Barium	SW-846 6020	1	110686050002D	03/15/2011	14:41	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	110686050002A	03/15/2011	14:41	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	110686050002A	03/15/2011	14:41	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	110686050002A	03/15/2011	14:41	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	110686050002A	03/15/2011	14:41	Choon Y Tian	1
06033	Copper	SW-846 6020	1	110686050002A	03/15/2011	14:41	Choon Y Tian	1
06035	Lead	SW-846 6020	1	110686050002A	03/15/2011	14:41	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	110686050002C	03/15/2011	14:41	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	110686050002A	03/15/2011	14:41	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	110686050002B	03/15/2011	14:41	Choon Y Tian	1
06042	Silver	SW-846 6020	1	110686050002A	03/15/2011	14:41	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	110686050002A	03/15/2011	14:41	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	110686050002A	03/15/2011	14:41	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	110686050002A	03/15/2011	14:41	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	110685713003	03/09/2011	20:12	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110681848003	03/10/2011	09:32	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110686050002	03/10/2011	09:30	Denise K Conners	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB05-SA5A-030211 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5A-030211

LLI Sample # WW 6220802
LLI Group # 1235570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:15

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 15:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9513 SDG#: DE095-13EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	110685713003	03/09/2011 15:30	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11062196602A	03/04/2011 04:31	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11069199402A	03/11/2011 08:07	Carrie E Miller	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11062199401A	03/03/2011 13:30	Carrie E Miller	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11062WAA026	Sample number(s): 6220802									
Aniline	1	U	1.	5	ug/l	106*	86	49-101	21	30
Benzidine	20	U	20.	60	ug/l	107	87	34-117	21	30
Benzoic acid	6	U	6.	15	ug/l	35	33	10-69	5	30
Benzyl alcohol	5	U	5.	15	ug/l	74	70	66-97	7	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	99	101	82-117	1	30
Carbazole	1	U	1.	5	ug/l	95	93	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	89	87	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	93	69	42-124	30	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	92	89	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	79	77	77-108	3	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	98	96	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	75	72	54-132	4	30
2-Chlorophenol	1	U	1.	5	ug/l	86	88	77-108	2	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	99	98	82-111	0	30
Dibenzofuran	1	U	1.	5	ug/l	97	95	83-108	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	89	85	55-118	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	89	84	50-119	6	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	88	83	53-119	6	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	74	61	49-111	20	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	96	96	80-109	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	89	87	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	89	90	70-130	1	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	89	91	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	86	87	52-131	1	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	104	99	81-115	5	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	100	97	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	85	85	78-116	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	102	104	81-118	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	100	96	57-124	4	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	83	81	36-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	82	76	52-113	7	30
Isophorone	1	U	1.	5	ug/l	93	91	74-117	2	30
2-Methylphenol	1	U	1.	5	ug/l	74	72	64-101	2	30
4-Methylphenol	2	U	2.	5	ug/l	64	63	61-103	3	30
2-Nitroaniline	1	U	1.	5	ug/l	94	90	83-116	4	30
3-Nitroaniline	1	U	1.	5	ug/l	94	90	74-113	4	30
4-Nitroaniline	1	U	1.	5	ug/l	80	73	59-100	9	30
Nitrobenzene	1	U	1.	5	ug/l	85	84	75-109	2	30
2-Nitrophenol	1	U	1.	5	ug/l	96	97	86-120	1	30
4-Nitrophenol	10	U	10.	30	ug/l	31	28	16-78	11	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	87	84	69-110	4	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	96	96	67-136	0	30
Pentachlorophenol	3	U	3.	15	ug/l	85	89	53-110	4	30
Phenol	1	U	1.	5	ug/l	33	31	21-67	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	95	91	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	96	97	79-107	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	99	99	81-113	1	30
Batch number: 11063WAC026	Sample number(s): 6220802									
Acenaphthene	0.010	U	0.010	0.050	ug/l	110*	107	74-109	3	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	105	102	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	105	103	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	108	105	72-114	3	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	106	104	60-127	2	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	104	103	69-123	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	120	119	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	115	112	59-130	3	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	77	83	40-138	7	30
Di-n-butylphthalate	0.066	J	0.050	1.0	ug/l	107	108	74-131	0	30
Chrysene	0.010	U	0.010	0.050	ug/l	108	116	76-116	7	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	115	113	55-134	2	30
Diethylphthalate	0.053	J	0.050	1.0	ug/l	94	96	57-134	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	54	61	40-119	11	30
Bis(2-Ethylhexyl)phthalate	0.13	J	0.050	1.0	ug/l	114	120	57-154	5	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	109	107	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	110	108	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	116	114	69-124	2	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	106	104	71-117	2	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	96	94	75-115	2	30
Naphthalene	0.030	U	0.030	0.050	ug/l	98	96	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	81	79	36-89	3	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	114	115	57-145	0	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	107	105	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	104	102	69-118	1	30
Batch number: 11067SLA026	Sample number(s): 6220787-6220793,6220795-6220797,6220799-6220801									
Acenaphthene	17	U	17.	170	ug/kg	96		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	101		75-122		
Aniline	170 U		170.	500	ug/kg	93		34-94		
Anthracene	17	U	17.	170	ug/kg	97		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	52		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	100		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	93		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	92		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	85		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	93		67-125		
Benzoic acid	170 U		170.	500	ug/kg	110		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	106		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	98		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	99		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	99		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	102		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	26		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	88		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	98		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	92		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	103		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	99		79-110		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	76		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	90		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	90		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	65		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	107		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	101		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	91		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	93		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	111		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	88		77-111		
bis(2-Ethylhexyl)phthalate	26	J	17.	330	ug/kg	99		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Fluorene	17	U	17.	170	ug/kg	100		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	95		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	81		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	85		64-119		
Isophorone	17	U	17.	170	ug/kg	99		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	105		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	99		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	103		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	101		66-117		
Naphthalene	17	U	17.	170	ug/kg	91		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	93		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	81		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	89		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	105		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	80		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	95		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	83		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	98		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	98		51-117		
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	98		58-112		
Pyrene	17	U	17.	170	ug/kg	104		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	105		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	107		78-111		
Batch number: 11069SLD026	Sample number(s): 6220787-6220793,6220795-6220797,6220799-6220801									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	88		60-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Anthracene	0.33	U	0.33	1.7	ug/kg	94		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	113		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	103		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	110		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	100		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	101		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	107		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	103		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	108		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	99		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	101		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	82		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	79		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	112		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	96		56-121		
Batch number: 110640003A	Sample number(s): 6220802									
2,4-D	0.16	U	0.16	0.50	ug/l	108		73-157		
Dalapon	0.25	U	0.25	1.3	ug/l	68		40-100		
2,4-DB	0.30	U	0.30	1.0	ug/l	108		65-130		
Dicamba	0.080	U	0.080	0.30	ug/l	96		68-135		
Dinoseb	0.10	U	0.10	0.50	ug/l	84		32-91		
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	128		76-170		
MCPA	300 U		300.	1,000	ug/l	90		65-128		
MCPP	50	U	50.	200	ug/l	104		67-137		
2,4,5-T	0.015	U	0.015	0.050	ug/l	100		63-147		
2,4,5-TP	0.010	U	0.010	0.050	ug/l	104		63-134		
Batch number: 110740020A	Sample number(s): 6220787-6220793,6220795-6220797,6220799-6220801									
2,4-D	1.2	U	1.2	3.6	ug/kg	91		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	46		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	90		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	65		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	14		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	97		62-170		
MCPA	76	U	76.	250	ug/kg	80		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	72		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	84		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	78		68-114		
Batch number: 110710012A	Sample number(s): 6220790,6220795									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		85-115		
Batch number: 110620021A	Sample number(s): 6220802									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	76	68	35-84	11	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	88	86	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	90	90	56-135	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110620022A	Sample number(s): 6220802									
Aldrin	0.0020	U	0.0020	0.010	ug/l	121	121	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	120	59-146	9	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	102	113	73-147	11	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	110	120	68-128	9	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	120	125	71-139	4	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	121	126	66-130	4	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	95	100	53-126	5	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	100	100	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	91	99	68-128	8	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	100	105	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	125	125	71-142	0	30
Endrin	0.0081	U	0.0081	0.020	ug/l	85	95	52-132	11	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	115	115	68-139	0	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	115	120	69-146	4	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	100	110	57-126	10	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	112	73-156	0	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	97	100	52-133	3	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 110690007A	Sample number(s): 6220787-6220793,6220795-6220797,6220799-6220801									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	82	87	36-106	5	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	83		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	89		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110690028A	Sample number(s): 6220787-6220793,6220795-6220797,6220799-6220801									
Aldrin	0.066	U	0.066	0.17	ug/kg	73		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	109		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	106		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	115		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	122		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	85		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	129		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	89		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	118		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	108		63-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	100		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	121		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	77		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	95		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	89		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	88		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	101		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110681026002A	Sample number(s): 6220787-6220797,6220799-6220801									
Antimony	0.0600	U	0.0600	0.200	mg/kg	98		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	94		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	103		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	102		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	109		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	103		82-118		
Lead	0.0104	U	0.0104	0.200	mg/kg	98		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	107		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	103		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	101		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	97		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	98		78-122		
Batch number: 110681026002B	Sample number(s): 6220787-6220797,6220799-6220801									
Selenium	0.0400	U	0.0400	0.400	mg/kg	104		79-122		
Batch number: 110681026002C	Sample number(s): 6220787-6220797,6220799-6220801									
Molybdenum	0.0669	J	0.0500	0.100	mg/kg	109		78-122		
Batch number: 110681026002D	Sample number(s): 6220787-6220797,6220799-6220801									
Barium	0.203	J	0.108	0.400	mg/kg	100		79-121		
Batch number: 110681848003	Sample number(s): 6220802									
Aluminum	0.0834	U	0.0834	0.200	mg/l	100	102	90-112	2	20
Boron	0.0138	U	0.0138	0.0500	mg/l	97	97	90-110	1	20
Calcium	0.0702	U	0.0702	0.200	mg/l	101	101	90-112	0	20
Iron	0.0522	U	0.0522	0.200	mg/l	104	107	90-112	2	20
Lithium	0.0049	J	0.0024	0.0200	mg/l	101	101	80-120	0	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	100	100	89-110	0	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	102	103	90-110	0	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	101	101	80-120	0	20
Potassium	0.239	U	0.239	0.500	mg/l	100	100	85-115	0	20
Sodium	0.433	U	0.433	1.00	mg/l	100	99	87-114	0	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	104	104	90-110	0	20
Tin	0.0098	U	0.0098	0.0200	mg/l	101	100	90-110	1	20
Titanium	0.0038	U	0.0038	0.0100	mg/l	103	102	90-113	1	20
Zirconium	0.0206	U	0.0206	0.0500	mg/l	105	103	80-120	1	20
Batch number: 110685708002	Sample number(s): 6220787-6220797,6220799-6220801									
Aluminum	5.03	U	5.03	20.0	mg/kg	104		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	96		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	104		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	101		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	101		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	99		81-119		
Phosphorus	1.22	J	0.560	10.0	mg/kg	106		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Potassium	18.0 U	18.0	50.0	mg/kg	100		78-110		
Sodium	37.3 U	37.3	100	mg/kg	103		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	106		79-121		
Tin	1.61 J	1.00	10.0	mg/kg	99		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	99		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	105		80-120		
Batch number: 110685711002	Sample number(s): 6220787-6220797,6220799-6220801								
Mercury	0.0027 U	0.0027	0.0956	mg/kg	91		88-123		
Batch number: 110685713003	Sample number(s): 6220802								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	109	100	80-120	9	20
Batch number: 110686050002A	Sample number(s): 6220802								
Antimony	0.00030 U	0.00030	0.0010	mg/l	104	110	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	97	93	86-111	4	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	111	110	90-112	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	98	101	90-114	4	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	104	102	90-118	3	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	102	101	80-120	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	104	106	90-113	2	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	108	111	90-115	3	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	105	90-113	3	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	104	105	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	98	101	89-116	3	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	106	104	80-120	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	107	105	80-120	1	20
Batch number: 110686050002B	Sample number(s): 6220802								
Selenium	0.00025 U	0.00025	0.0020	mg/l	106	107	85-114	1	20
Batch number: 110686050002C	Sample number(s): 6220802								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	102	80-120	3	20
Batch number: 110686050002D	Sample number(s): 6220802								
Barium	0.00053 U	0.00053	0.0020	mg/l	103	101	88-113	1	20
Batch number: 110741026002A	Sample number(s): 6220787-6220797,6220799-6220801								
Copper	0.0727 J	0.0635	0.385	mg/kg	108		80-120		
Batch number: 11062196602A	Sample number(s): 6220802								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	95	95	90-110	0	20
Batch number: 11062199401A	Sample number(s): 6220802								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	102	90-110	2	20
Batch number: 11066243202A	Sample number(s): 6220787-6220792,6220794-6220797,6220799-6220801								
3a Cr VI by EPA 7199	0.49 J	0.20	1.0	mg/kg	93		80-120		
Batch number: 11069069201A	Sample number(s): 6220787-6220792,6220794-6220797,6220799-6220800								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	109		85-115		
Batch number: 11069069201B	Sample number(s): 6220801								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	109		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11069199402A	Sample number(s): 6220802									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	110	108	85-115	2	20
Batch number: 11074495201A	Sample number(s): 6220787-6220792,6220794-6220797,6220799-6220800									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
Batch number: 11074495201B	Sample number(s): 6220801									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
Batch number: 11067039401A	Sample number(s): 6220787-6220791,6220794-6220797,6220799									
18a pH by 9045C						100		95-105		
Batch number: 11067039401B	Sample number(s): 6220800-6220801									
18a pH by 9045C						100		95-105		
Batch number: 11067182101A	Sample number(s): 6220787-6220791,6220794-6220797,6220799									
32a OR Potential						100		98-102		
Batch number: 11067182101B	Sample number(s): 6220800-6220801									
32a OR Potential						100		98-102		
Batch number: 11070162401A	Sample number(s): 6220787-6220797,6220799-6220801									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11067SLA026	Sample number(s): 6220787-6220793,6220795-6220797,6220799-6220801 UNSPK: 6220791								
Acenaphthene	93	93	75-115	0	30				
Acenaphthylene	97	97	81-110	0	30				
Aniline	95	100*	35-95	5	30				
Anthracene	94	96	75-115	2	30				
Benzidine	19*	18*	35-141	7	30				
Benzo(a)anthracene	95	101	65-122	6	30				
Benzo(a)pyrene	97	94	57-126	3	30				
Benzo(b)fluoranthene	91	88	59-125	3	30				
Benzo(g,h,i)perylene	97	96	59-127	0	30				
Benzo(k)fluoranthene	102	95	56-132	7	30				
Benzoic acid	90	88	10-173	3	30				
Benzyl alcohol	91	94	67-115	2	30				
4-Bromophenyl-phenylether	105	107	67-129	2	30				
Butylbenzylphthalate	96	108	73-134	12	30				
Di-n-butylphthalate	100	100	67-123	0	30				
Carbazole	91	92	64-120	2	30				
4-Chloro-3-methylphenol	88	90	76-110	3	30				
4-Chloroaniline	59	77	23-95	27	30				
bis(2-Chloroethoxy)methane	90	93	75-104	3	30				
bis(2-Chloroethyl)ether	79	82	60-116	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroisopropyl)ether	91	94	55-142	2	30				
2-Chloronaphthalene	76	77	50-141	2	30				
2-Chlorophenol	94	96	73-121	2	30				
4-Chlorophenyl-phenylether	93	95	80-109	2	30				
Chrysene	96	99	62-128	3	30				
Dibenz(a,h)anthracene	92	93	65-125	2	30				
Dibenzofuran	94	95	71-112	1	30				
1,2-Dichlorobenzene	85	88	66-108	3	30				
1,3-Dichlorobenzene	82	85	63-109	4	30				
1,4-Dichlorobenzene	83	85	70-100	2	30				
3,3'-Dichlorobenzidine	86	95	16-119	10	30				
2,4-Dichlorophenol	96	98	78-117	2	30				
Diethylphthalate	92	94	66-118	2	30				
2,4-Dimethylphenol	92	94	78-110	1	30				
3,5-Dimethylphenol	93	96	70-130	3	30				
Dimethylphthalate	95	96	64-118	1	30				
4,6-Dinitro-2-methylphenol	40	40	24-116	1	30				
2,4-Dinitrophenol	29	29	20-143	0	30				
2,4-Dinitrotoluene	92	94	73-113	2	30				
2,6-Dinitrotoluene	92	93	69-123	2	30				
1,2-Diphenylhydrazine	95	98	71-129	2	30				
bis(2-Ethylhexyl)phthalate	97	102	63-122	5	30				
Fluoranthene	90	94	73-112	5	30				
Fluorene	91	92	77-111	1	30				
Hexachlorobenzene	104	104	77-114	0	30				
Hexachlorobutadiene	97	99	62-120	2	30				
Hexachlorocyclopentadiene	25	25	10-153	0	30				
Hexachloroethane	62	62	57-109	0	30				
Indeno(1,2,3-cd)pyrene	95	96	61-126	1	30				
Isophorone	92	93	73-102	2	30				
1-Methylnaphthalene	98	100	73-112	2	30				
2-Methylnaphthalene	90	94	76-114	4	30				
2-Methylphenol	89	92	75-111	3	30				
4-Methylphenol	86	89	71-111	3	30				
Naphthalene	91	91	72-116	0	30				
2-Nitroaniline	97	100	67-125	3	30				
3-Nitroaniline	91	94	59-122	3	30				
4-Nitroaniline	76	78	52-112	4	30				
Nitrobenzene	88	90	72-106	2	30				
2-Nitrophenol	96	97	74-115	1	30				
4-Nitrophenol	64	68	54-113	6	30				
N-Nitroso-di-n-propylamine	83	86	60-116	4	30				
N-Nitrosodimethylamine	82	85	47-116	3	30				
N-Nitrosodiphenylamine	103	105	86-145	2	30				
Di-n-octylphthalate	94	93	56-126	1	30				
Pentachlorophenol	88	88	28-127	0	30				
Phenanthrene	93	94	65-125	2	30				
Phenol	87	89	58-126	3	30				
Pyrene	95	100	74-126	5	30				
1,2,4-Trichlorobenzene	94	97	72-115	2	30				
2,4,5-Trichlorophenol	101	101	78-109	0	30				
2,4,6-Trichlorophenol	106	107	77-115	0	30				

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Quality Control Summary

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Reported: 03/23/11 at 03:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11069SLD026	Sample number(s): 6220787-6220793,6220795-6220797,6220799-6220801 UNSPK: 6220791								
Acenaphthene	97	94	63-105	3	30				
Acenaphthylene	96	94	67-114	2	30				
Anthracene	98	96	60-122	2	30				
Benzo(a)anthracene	102	98	59-128	4	30				
Benzo(a)pyrene	105	100	45-138	5	30				
Benzo(b)fluoranthene	124	114	43-155	9	30				
Benzo(g,h,i)perylene	63	67	33-141	7	30				
Benzo(k)fluoranthene	122	109	42-144	11	30				
Butylbenzylphthalate	125	121	57-173	3	30				
Di-n-butylphthalate	87	83	65-148	3	30				
Chrysene	101	96	48-134	5	30				
Dibenz(a,h)anthracene	73	76	22-133	4	30				
Diethylphthalate	112	108	70-136	4	30				
Dimethylphthalate	108	107	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	168*	130	39-167	26	30				
Fluoranthene	109	104	26-166	4	30				
Fluorene	99	99	66-122	1	30				
Indeno(1,2,3-cd)pyrene	72	75	21-143	4	30				
1-Methylnaphthalene	97	94	72-123	3	30				
2-Methylnaphthalene	87	85	64-103	3	30				
Naphthalene	94	90	61-102	4	30				
N-Nitrosodimethylamine	92	94	48-113	2	30				
Di-n-octylphthalate	113	107	40-192	4	30				
Phenanthrene	97	94	12-165	4	30				
Pyrene	99	96	15-153	4	30				
Batch number: 110640003A	Sample number(s): 6220802 UNSPK: P222800								
2,4-D	100	104	30-207	4	30				
Dalapon	68	77	35-109	14	30				
2,4-DB	88	96	50-135	9	30				
Dicamba	0*	0*	66-128	0	30				
Dinoseb	85	95	10-140	13	30				
2,4-DP (Dichlorprop)	104	104	63-189	4	30				
MCPA	83	80	53-140	3	30				
MCPP	71	50*	54-153	34*	30				
2,4,5-T	88	96	68-137	9	30				
2,4,5-TP	113	121	52-133	7	30				
Batch number: 110740020A	Sample number(s): 6220787-6220793,6220795-6220797,6220799-6220801 UNSPK: 6220791								
2,4-D	102	93	17-180	10	35				
Dalapon	64	48	10-125	30	50				
2,4-DB	152	107	10-201	35	50				
Dicamba	94	75	10-190	23	50				
Dinoseb	15	10	10-46	46*	35				
2,4-DP (Dichlorprop)	85	78	33-178	9	50				
MCPA	90	82	10-213	9	50				
MCPP (Mecoprop)	16	33	10-184	69*	50				
2,4,5-T	43	34	10-156	25	35				
2,4,5-TP	80	63	24-141	24	35				
Batch number: 110710012A	Sample number(s): 6220790,6220795 UNSPK: P218897								
6a Perchlorate EPA 6850	105	105	80-120	0	20				

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110690007A	Sample number(s): 6220787-6220793,6220795-6220797,6220799-6220801 UNSPK: 6220791								
PCB-1016	85	81	29-146	4	50				
PCB-1260	95	92	39-149	4	50				
Batch number: 110690028A	Sample number(s): 6220787-6220793,6220795-6220797,6220799-6220801 UNSPK: 6220791								
Aldrin	76	76	16-126	0	50				
Alpha BHC	100	103	10-129	3	50				
Beta BHC	97	94	14-147	3	50				
Gamma BHC - Lindane	106	106	10-140	0	50				
p,p-DDD	113	107	16-163	5	50				
p,p-DDE	106	100	18-161	6	50				
p,p-DDT	143	145	10-176	1	50				
Delta BHC	91	91	23-140	0	50				
Dieldrin	85	78	19-154	9	50				
Endosulfan I	115	115	16-137	0	50				
Endosulfan II	94	92	28-154	2	50				
Endosulfan Sulfate	94	95	21-160	2	50				
Endrin	111	109	11-149	1	50				
Endrin Aldehyde	73	94	10-148	25	35				
Endrin Ketone	85	85	22-165	0	50				
Heptachlor	85	85	13-126	0	50				
Heptachlor Epoxide	82	79	13-157	4	50				
Methoxychlor	93	90	32-147	3	50				
Batch number: 110681026002A	Sample number(s): 6220787-6220797,6220799-6220801 UNSPK: 6220791 BKG: 6220791								
Antimony	54*	54*	75-125	3	20	0.146 J	0.107 J	30* (1)	20
Arsenic	108	73*	75-125	9	20	6.39	4.26	40*	20
Beryllium	123	113	75-125	6	20	0.747	0.443	51* (1)	20
Cadmium	135*	124	75-125	10	20	0.227	0.195	15 (1)	20
Chromium	111	96	75-125	5	20	25.5	17.1	40*	20
Cobalt	119	112	75-125	8	20	6.76	4.60	38*	20
Lead	68 (2)	49 (2)	75-125	4	20	13.0	8.48	42*	20
Nickel	115	104	75-125	5	20	16.5	11.4	36*	20
Silver	131*	124	75-125	9	20	0.157	0.0954 J	49* (1)	20
Thallium	118	119	75-125	2	20	0.332	0.205	47* (1)	20
Vanadium	96 (2)	70 (2)	75-125	5	20	45.6	29.5	43*	20
Zinc	101 (2)	60 (2)	75-125	5	20	80.7	58.9	31*	20
Batch number: 110681026002B	Sample number(s): 6220787-6220797,6220799-6220801 UNSPK: 6220791 BKG: 6220791								
Selenium	109	115	75-125	2	20	0.485	0.114 J	124* (1)	20
Batch number: 110681026002C	Sample number(s): 6220787-6220797,6220799-6220801 UNSPK: 6220791 BKG: 6220791								
Molybdenum	138*	129*	75-125	9	20	0.912	0.541	51*	20
Batch number: 110681026002D	Sample number(s): 6220787-6220797,6220799-6220801 UNSPK: 6220791 BKG: 6220791								
Barium	86 (2)	8 (2)	75-125	5	20	144	98.0	38*	20
Batch number: 110685708002	Sample number(s): 6220787-6220797,6220799-6220801 UNSPK: 6220791 BKG: 6220791								
Aluminum	634 (2)	934 (2)	75-125	3	20	15,400	14,900	3	20
Boron	99	98	84-115	2	20	2.95 J	2.77 J	6 (1)	20
Calcium	130 (2)	149 (2)	75-125	2	20	2,760	2,720	1	20
Iron	-1326	-286	75-125	5	20	20,600	20,500	0	20

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC (2)	MSD %REC (2)	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Lithium	101	102	82-114	1	20	24.2	24.1	0	20
Magnesium	-60 (2)	136 (2)	75-125	8	20	4,860	4,850	0	20
Manganese	67 (2)	85 (2)	75-125	2	20	324	324	0	20
Phosphorus	56 (2)	77 (2)	75-125	3	20	609	593	3	20
Potassium	100	125 (2)	75-125	4	20	3,900	3,930	1	20
Sodium	102	105	75-125	0	20	71.3 J	72.3 J	1 (1)	20
Strontium	102	101	75-115	2	20	17.8	17.2	3	20
Tin	88	88	80-110	2	20	2.49 J	2.48 J	0 (1)	20
Titanium	227 (2)	289 (2)	75-125	4	20	1,130	1,130	0	20
Zirconium	95	95	75-125	1	20	1.70 J	1.41 J	18 (1)	20
Batch number: 110685711002	Sample number(s): 6220787-6220797,6220799-6220801 UNSPK: 6220791 BKG: 6220791								
Mercury	106	100	65-135	8	20	0.0035 J	0.0028 U	200* (1)	20
Batch number: 110741026002A	Sample number(s): 6220787-6220797,6220799-6220801 UNSPK: 6220791 BKG: 6220791								
Copper	93	105	75-125	5	20	9.92	12.8	25*	20
Batch number: 11066243202A	Sample number(s): 6220787-6220792,6220794-6220797,6220799-6220801 UNSPK: 11066B BKG: 11066B								
3a Cr VI by EPA 7199	89		75-125			0.36 J	0.50 J	32* (1)	20
Batch number: 11069069201A	Sample number(s): 6220787-6220792,6220794-6220797,6220799-6220800 UNSPK: 6220791 BKG: 6220791								
7a Perchlorate EPA 314.0	111		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11069069201B	Sample number(s): 6220801 UNSPK: 6220801 BKG: 6220801								
7a Perchlorate EPA 314.0	102		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11074495201A	Sample number(s): 6220787-6220792,6220794-6220797,6220799-6220800 UNSPK: 6220791 BKG: 6220791								
11a Anions by 300.0 - Fluoride	49*		80-120			1.3	1.4	4 (1)	20
Batch number: 11074495201B	Sample number(s): 6220801 UNSPK: 6220801 BKG: 6220801								
11a Anions by 300.0 - Fluoride	79*		80-120			1.8	1.7	4 (1)	20
Batch number: 11067039401A	Sample number(s): 6220787-6220791,6220794-6220797,6220799 BKG: 6220791								
18a pH by 9045C						6.33	6.34	0	1
Batch number: 11067039401B	Sample number(s): 6220800-6220801 BKG: P220827								
18a pH by 9045C						7.99	7.99	0	1
Batch number: 11067182101A	Sample number(s): 6220787-6220791,6220794-6220797,6220799 BKG: 6220791								
32a OR Potential						388	391	1	6
Batch number: 11067182101B	Sample number(s): 6220800-6220801 BKG: P220827								
32a OR Potential						429	430	0	6
Batch number: 11070162401A	Sample number(s): 6220787-6220797,6220799-6220801 BKG: 6220791								
28a Moisture Content by 160.3						12.5	12.3	2	20
Moisture Content by 160.3						12.5	12.3	2	20
Moisture Content by 160.3						12.5	12.3	2	20

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11062WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6220802	45	26	92	80	90	86
Blank	36	20	85	67	75	76
LCS	50	30	96	82	90	86
LCSD	47	28	98	79	88	80
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11063WAC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6220802	112	94	93
Blank	113	103	108
LCS	116	102	98
LCSD	112	98	97
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11067SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6220787	84	87	87	83	91	81
6220788	85	88	85	79	87	82
6220789	81	83	82	78	86	87
6220790	80	84	82	79	88	76
6220791	83	86	86	81	89	78
6220792	83	87	86	83	91	81
6220793	85	88	87	85	91	90
6220795	79	84	76	82	90	74
6220796	75	81	78	78	87	73
6220797	77	82	86	83	90	77
6220799	84	88	91	83	90	80
6220800	83	87	87	82	90	80
6220801	79	84	85	82	90	74
Blank	83	87	103	82	88	87
LCS	94	94	102	85	88	88
MS	83	87	86	83	91	81
MSD	85	88	87	85	91	90
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11069SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6220787	96	88	92

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Surrogate Quality Control

6220788	80	79	86
6220789	92	84	89
6220790	98	89	96
6220791	98	87	89
6220792	102	92	96
6220793	101	89	90
6220795	83	78	89
6220796	83	78	87
6220797	81	75	88
6220799	108	74	87
6220800	91	80	71
6220801	82	79	106
Blank	92	88	100
LCS	99	88	98
MS	102	92	96
MSD	101	89	90
Limits:	40-130	45-130	45-135

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110620021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6220802	88	83
Blank	91	85
LCS	96	90
LCSD	95	84
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 110620022A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6220802	107	108
Blank	111	112
LCS	113	111
LCSD	116	118
Limits:	52-141	40-144

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 110640003A

	2,4-Dichlorophenylacetic acid
6220802	82
Blank	89
LCS	105
MS	81
MSD	51
Limits:	35-144

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110690007A

	Tetrachloro-m-xylene	Decachlorobiphenyl

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Surrogate Quality Control

6220787	89	100
6220788	85	80
6220789	96	110
6220790	79	100
6220791	84	95
6220792	89	99
6220793	88	99
6220795	49*	80
6220796	93	129*
6220797	79	85
6220799	70	82
6220800	74	74
6220801	81	76
Blank	88	95
LCS	89	94
LCSD	86	94
MS	89	99
MSD	88	99
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 110690028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6220787	78	111
6220788	78	487*
6220789	87	169*
6220790	82	75
6220791	81	100
6220792	77	97
6220793	78	100
6220795	88	7878*
6220796	90	733*
6220797	89	289*
6220799	120	55
6220800	72	165*
6220801	64	286*
Blank	60	103
LCS	78	97
MS	77	97
MSD	78	100
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110740020A

	2,4-Dichlorophenylacetic acid
6220787	90
6220788	81
6220789	109
6220790	93
6220791	57
6220792	100

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235570
Reported: 03/23/11 at 03:53 PM

Surrogate Quality Control

6220793	89
6220795	118
6220796	109
6220797	87
6220799	122
6220800	86
6220801	83
Blank	82
LCS	89
MS	100
MSD	89
Limits:	36-156

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap# 1235570 Sample# 6220787-802

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
DUP-07-SA5A-QC-030211	3.02.11	0858	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
DUP-07-SA5A-QC-030211	3.02.11	0858	SOIL	NONE	1-6 inch sleeve			X	X							
SL-042-SA5A-SS-0.0-0.5	3.02.11	1011	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-042-SA5A-SS-0.0-0.5	3.02.11	1011	SOIL	NONE	1-6 inch sleeve			X	X							
SL-044-SA5A-SS-0.0-0.5	3.02.11	0958	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-044-SA5A-SS-0.0-0.5	3.02.11	0958	SOIL	NONE	1-6 inch sleeve			X	X							
SL-045-SA5A-SS-0.0-0.5	3.02.11	0930	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-045-SA5A-SS-0.0-0.5	3.02.11	0930	SOIL	NONE	1-6 inch sleeve			X	X							
SL-048-SA5A-SS-0.0-0.5MS	3.02.11	0855	SOIL	NONE	2-16 oz jars	X	X			X	X	X		X	X	
SL-048-SA5A-SS-0.0-0.5MS	3.02.11	0855	SOIL	NONE	2-6 inch sleeves			X	X							
SL-176-SA5A-SS-0.0-0.3	3.02.11	1149	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-176-SA5A-SS-0.0-0.3	3.02.11	1149	SOIL	NONE	1-6 inch sleeve			X	X							
SL-178-SA5A-SS-0.0-0.4	3.02.11	1117	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-178-SA5A-SS-0.0-0.4	3.02.11	1117	SOIL	NONE	1-6 inch sleeve			X	X							
SL-179-SA5A-SS-0.0-0.3	3.02.11	1100	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-179-SA5A-SS-0.0-0.3	3.02.11	1100	SOIL	NONE	1-6 inch sleeve			X	X							
~~SL-182-SA5A-SS-0.0-0.5~~	~~3.02.11~~	~~1435~~	~~SOIL~~	~~NONE~~	~~1-16 oz jar~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	Voided per PB NLM 3/21/11
~~SL-182-SA5A-SS-0.0-0.5~~	~~3.02.11~~	~~1435~~	~~SOIL~~	~~NONE~~	~~1-6 inch sleeve~~			~~X~~	~~X~~							
SL-186-SA5A-SS-0.0-0.5	3.02.11	1325	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-186-SA5A-SS-0.0-0.5	3.02.11	1325	SOIL	NONE	1-6 inch sleeve			X	X							
SL-188-SA5A-SS-0.0-0.5	3.02.11	1401	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-188-SA5A-SS-0.0-0.5	3.02.11	1401	SOIL	NONE	1-6 inch sleeve			X	X							
SL-189-SA5A-SS-0.0-0.5	3.02.11	1415	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-189-SA5A-SS-0.0-0.5	3.02.11	1415	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (Signature) — Date/Time: 03/02/2011 / 17:00

Received for Laboratory by: (Signature) 3/3/11 — ~~3/2/11~~ 915

Received by: (Signature) — Date/Time

Airbill No.(s) 3/3/11

8700 5935 3881; 8700 5935 3907
8700 5935 3940

Laboratory:
Lancaster Laboratories, Inc.

SURFACE

acct#13013 Qp# 1235570 Sample# 6220787-802

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								SS ONLY		Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
Samplers Signatures:																	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
EB05-SA5A-030211	3.02.11	1215	WATER	NONE	6-1 L ambers			X	X	X				X	X	Surface rinsate blank	
EB05-SA5A-030211	3.02.11	1215	WATER	HNO3	1-500 mL poly	X										Surface rinsate blank	
EB05-SA5A-030211	3.02.11	1215	WATER	NONE	1-500 mL poly		X				X	X				Surface rinsate blank	
Relinquished by: (*Signature*)	Date/Time 03/02/2011 / 17:00		Received for Laboratory by: (*Signature*) Harry H 3/3/11 915													Laboratory: Lancaster Laboratories, Inc.	
Received by: (*Signature*)	Date/Time		Airbill No(s) 8700 5935 3881; 8700 5935 3907 8700 5935 3940													SURFACE	

Nicole Maljovec A#13013 / 1235570 / G2.20787-802.

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Friday, March 04, 2011 2:24 PM
To: Nicole Maljovec
Subject: Please do not analyze sample SL-182

Hi Nicole – I just realized that the following sample should not have been collected:

SL-182-SA5A-SS-0.0-0.5 (collected on 3/2/2011)

Please do not have it analyzed. Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

acct #13013 Cap # 1235570 Samp6 # 6220787-302

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/SB7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
DUP-07-SA5A-QC-030211	3.02.11	0858	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
DUP-07-SA5A-QC-030211	3.02.11	0858	SOIL	NONE	1-6 inch sleeve			X	X							
SL-042-SA5A-SS-0.0-0.5	3.02.11	1011	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-042-SA5A-SS-0.0-0.5	3.02.11	1011	SOIL	NONE	1-6 inch sleeve			X	X							
SL-044-SA5A-SS-0.0-0.5	3.02.11	0958	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-044-SA5A-SS-0.0-0.5	3.02.11	0958	SOIL	NONE	1-6 inch sleeve			X	X							
SL-045-SA5A-SS-0.0-0.5	3.02.11	0930	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-045-SA5A-SS-0.0-0.5	3.02.11	0930	SOIL	NONE	1-6 inch sleeve			X	X							
SL-048-SA5A-SS-0.0-0.5MS	3.02.11	0855	SOIL	NONE	2-16 oz jars	X	X			X	X	X		X	X	
SL-048-SA5A-SS-0.0-0.5MS	3.02.11	0855	SOIL	NONE	2-6 inch sleeves			X	X							
SL-176-SA5A-SS-0.0-0.3	3.02.11	1149	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-176-SA5A-SS-0.0-0.3	3.02.11	1149	SOIL	NONE	1-6 inch sleeve			X	X							
SL-178-SA5A-SS-0.0-0.4	3.02.11	1117	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-178-SA5A-SS-0.0-0.4	3.02.11	1117	SOIL	NONE	1-6 inch sleeve			X	X							
SL-179-SA5A-SS-0.0-0.3	3.02.11	1100	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-179-SA5A-SS-0.0-0.3	3.02.11	1100	SOIL	NONE	1-6 inch sleeve			X	X							
SL-182-SA5A-SS-0.0-0.5	3.02.11	1435	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-182-SA5A-SS-0.0-0.5	3.02.11	1435	SOIL	NONE	1-6 inch sleeve			X	X							
SL-186-SA5A-SS-0.0-0.5	3.02.11	1325	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-186-SA5A-SS-0.0-0.5	3.02.11	1325	SOIL	NONE	1-6 inch sleeve			X	X							
SL-188-SA5A-SS-0.0-0.5	3.02.11	1401	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-188-SA5A-SS-0.0-0.5	3.02.11	1401	SOIL	NONE	1-6 inch sleeve			X	X							
SL-189-SA5A-SS-0.0-0.5	3.02.11	1415	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-189-SA5A-SS-0.0-0.5	3.02.11	1415	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (Signature) — Date/Time: 03/02/2011 / 17:00

Received for Laboratory by: (Signature) 3/3/11 915

Received by: (Signature) — Date/Time:

Airbill No.(s) 3/3/11

8700 5935 3881; 8700 5935 3907
8700 5935 3940

Laboratory:
Lancaster Laboratories, Inc.

SURFACE

acct#13013 Ap#1235570 Sample# 6220787-802

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								SS ONLY		Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers											
EB05-SA5A-030211	3.02.11	1215	WATER	NONE	6-1 L ambers			X	X	X				X	X	Surface rinsate blank
EB05-SA5A-030211	3.02.11	1215	WATER	HNO3	1-500 mL poly	X										Surface rinsate blank
EB05-SA5A-030211	3.02.11	1215	WATER	NONE	1-500 mL poly		X				X	X				Surface rinsate blank
Relinquished by: (*Signature*)	Date/Time 03/02/2011 / 17:00		Received for Laboratory by: (*Signature*) 3/3/11 915													Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No(s) 8700 5935 3881; 8700 5935 3907 8700 5935 3940													SURFACE

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/03/2011
Group Number: 1235573
SDG: DX060
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-07-SA5A-QC-030211 Soil	6220806
SL-042-SA5A-SS-0.0-0.5 Soil	6220807
SL-044-SA5A-SS-0.0-0.5 Soil	6220808
SL-045-SA5A-SS-0.0-0.5 Soil	6220809
SL-048-SA5A-SS-0.0-0.5 Soil	6220810
SL-048-SA5A-SS-0.0-0.5MS Soil	6220811
SL-048-SA5A-SS-0.0-0.5MSD Soil	6220812
SL-176-SA5A-SS-0.0-0.3 Soil	6220813
SL-178-SA5A-SS-0.0-0.4 Soil	6220814
SL-179-SA5A-SS-0.0-0.3 Soil	6220815
SL-186-SA5A-SS-0.0-0.5 Soil	6220817
SL-188-SA5A-SS-0.0-0.5 Soil	6220818
SL-189-SA5A-SS-0.0-0.5 Soil	6220819
EB05-SA5A-030211 Water	6220820

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-07-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-07-SA5A-QC-030211

LLI Sample # SW 6220806
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:58

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6001 SDG#: DX060-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-07-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-07-SA5A-QC-030211

LLI Sample # SW 6220806
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:58

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6001 SDG#: DX060-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0473	JB	0.0169	1.14	1
11031	12378-PeCDD	40321-76-4	0.295	JBQ	0.0335	5.72	1
11031	123478-HxCDD	39227-28-6	0.402	JBQ	0.0451	5.72	1
11031	123678-HxCDD	57653-85-7	1.10	JB	0.0457	5.72	1
11031	123789-HxCDD	19408-74-3	1.02	JB	0.0439	5.72	1
11031	1234678-HpCDD	35822-46-9	26.0	B	0.0741	5.72	1
11031	OCDD	3268-87-9	429	B	0.0658	11.4	1
11031	2378-TCDF	51207-31-9	0.207	JB	0.0419	1.14	1
11031	12378-PeCDF	57117-41-6	0.322	JB	0.0199	5.72	1
11031	23478-PeCDF	57117-31-4	0.391	JB	0.0197	5.72	1
11031	123478-HxCDF	70648-26-9	0.387	JB	0.0392	5.72	1
11031	123678-HxCDF	57117-44-9	0.275	JB	0.0327	5.72	1
11031	123789-HxCDF	72918-21-9	0.309	JB	0.0458	5.72	1
11031	234678-HxCDF	60851-34-5	0.361	JB	0.0375	5.72	1
11031	1234678-HpCDF	67562-39-4	4.83	JB	0.0203	5.72	1
11031	1234789-HpCDF	55673-89-7	0.448	JB	0.0365	5.72	1
11031	OCDF	39001-02-0	16.2	B	0.0357	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-07-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-07-SA5A-QC-030211

LLI Sample # SW 6220806
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:58

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6001 SDG#: DX060-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-07-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-07-SA5A-QC-030211

LLI Sample # SW 6220806
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:58

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6001 SDG#: DX060-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11083001	03/25/2011 19:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11083001	03/24/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SS-0.0-0.5

LLI Sample # SW 6220807
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 10:11

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6002 SDG#: DX060-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	18.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-042-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SS-0.0-0.5

LLI Sample # SW 6220807
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 10:11

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6002 SDG#: DX060-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	3.02 B	0.110	1.23	1
11031	12378-PeCDD	40321-76-4	13.6	0.235	6.16	1
11031	123478-HxCDD	39227-28-6	22.4 B	0.241	6.16	1
11031	123678-HxCDD	57653-85-7	99.6 B	0.236	6.16	1
11031	123789-HxCDD	19408-74-3	41.7 B	0.215	6.16	1
11031	1234678-HpCDD	35822-46-9	2,370 B	0.342	6.16	1
11031	OCDD	3268-87-9	26,400 EB	0.364	12.3	1
11031	2378-TCDF	51207-31-9	9.58 B	0.299	1.23	1
11650	2378-TCDF-Conf	51207-31-9	5.92	0.0821	1.23	1
11031	12378-PeCDF	57117-41-6	2.47 JB	0.110	6.16	1
11031	23478-PeCDF	57117-31-4	8.18 B	0.106	6.16	1
11031	123478-HxCDF	70648-26-9	31.7 B	0.348	6.16	1
11031	123678-HxCDF	57117-44-9	21.0 B	0.258	6.16	1
11031	123789-HxCDF	72918-21-9	4.26 JB	0.211	6.16	1
11031	234678-HxCDF	60851-34-5	35.3 B	0.189	6.16	1
11031	1234678-HpCDF	67562-39-4	396 B	0.165	6.16	1
11031	1234789-HpCDF	55673-89-7	53.0 B	0.169	6.16	1
11031	OCDF	39001-02-0	910 B	0.122	12.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-2378-TCDF-Conf	78	24 - 169
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	56	26 - 123

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SS-0.0-0.5

LLI Sample # SW 6220807
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 10:11

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6002 SDG#: DX060-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SS-0.0-0.5

LLI Sample # SW 6220807
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 10:11

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6002 SDG#: DX060-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11075001	03/18/2011 22:55	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11075001	03/25/2011 20:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11075001	03/16/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-044-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SS-0.0-0.5

LLI Sample # SW 6220808
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:58

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6003 SDG#: DX060-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-044-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SS-0.0-0.5

LLI Sample # SW 6220808
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:58

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6003 SDG#: DX060-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.761	JB	0.0337	1.13	1
11031	12378-PeCDD	40321-76-4	3.01	J	0.103	5.64	1
11031	123478-HxCDD	39227-28-6	5.56	JB	0.121	5.64	1
11031	123678-HxCDD	57653-85-7	22.3	B	0.124	5.64	1
11031	123789-HxCDD	19408-74-3	11.0	B	0.119	5.64	1
11031	1234678-HpCDD	35822-46-9	646	B	0.154	5.64	1
11031	OCDD	3268-87-9	7,530	EB	0.164	11.3	1
11031	2378-TCDF	51207-31-9	2.28	B	0.117	1.13	1
11650	2378-TCDF-Conf	51207-31-9	1.38		0.0606	1.13	1
11031	12378-PeCDF	57117-41-6	0.693	JB	0.0542	5.64	1
11031	23478-PeCDF	57117-31-4	2.08	JB	0.0530	5.64	1
11031	123478-HxCDF	70648-26-9	6.57	B	0.112	5.64	1
11031	123678-HxCDF	57117-44-9	3.80	JB	0.0878	5.64	1
11031	123789-HxCDF	72918-21-9	1.01	JB	0.0889	5.64	1
11031	234678-HxCDF	60851-34-5	6.22	B	0.0825	5.64	1
11031	1234678-HpCDF	67562-39-4	76.1	B	0.0709	5.64	1
11031	1234789-HpCDF	55673-89-7	9.82	B	0.0927	5.64	1
11031	OCDF	39001-02-0	185	B	0.0509	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-2378-TCDF-Conf	82	24 - 169
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-044-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SS-0.0-0.5

LLI Sample # SW 6220808
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:58

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6003 SDG#: DX060-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-044-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SS-0.0-0.5

LLI Sample # SW 6220808
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:58

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6003 SDG#: DX060-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11075001	03/18/2011 23:52	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11075001	03/25/2011 21:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11075001	03/16/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-045-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA5A-SS-0.0-0.5

LLI Sample # SW 6220809
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:30

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6004 SDG#: DX060-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-045-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA5A-SS-0.0-0.5

LLI Sample # SW 6220809
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:30

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6004 SDG#: DX060-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0488	JBQ	0.0151	1.19	1
11031	12378-PeCDD	40321-76-4	0.196	J	0.0294	5.97	1
11031	123478-HxCDD	39227-28-6	0.210	JB	0.0435	5.97	1
11031	123678-HxCDD	57653-85-7	0.774	JB	0.0438	5.97	1
11031	123789-HxCDD	19408-74-3	0.773	JB	0.0403	5.97	1
11031	1234678-HpCDD	35822-46-9	14.3	B	0.0413	5.97	1
11031	OCDD	3268-87-9	208	B	0.0384	11.9	1
11031	2378-TCDF	51207-31-9	0.296	JB	0.0339	1.19	1
11031	12378-PeCDF	57117-41-6	0.168	JBQ	0.0164	5.97	1
11031	23478-PeCDF	57117-31-4	0.461	JB	0.0154	5.97	1
11031	123478-HxCDF	70648-26-9	0.406	JB	0.0362	5.97	1
11031	123678-HxCDF	57117-44-9	0.238	JB	0.0294	5.97	1
11031	123789-HxCDF	72918-21-9	0.368	JB	0.0266	5.97	1
11031	234678-HxCDF	60851-34-5	0.367	JB	0.0231	5.97	1
11031	1234678-HpCDF	67562-39-4	2.45	JB	0.0198	5.97	1
11031	1234789-HpCDF	55673-89-7	0.258	JB	0.0243	5.97	1
11031	OCDF	39001-02-0	6.90	JB	0.0203	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	96	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	101	24 - 185
13C12-23478-PeCDF	102	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	98	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-045-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA5A-SS-0.0-0.5

LLI Sample # SW 6220809
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:30

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6004 SDG#: DX060-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-045-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA5A-SS-0.0-0.5

LLI Sample # SW 6220809
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:30

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6004 SDG#: DX060-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11075001	03/23/2011 18:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11075001	03/16/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220810
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6005 SDG#: DX060-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220810
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6005 SDG#: DX060-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0419	JB	0.0134	1.14	1
11031	12378-PeCDD	40321-76-4	0.253	J	0.0247	5.71	1
11031	123478-HxCDD	39227-28-6	0.338	JB	0.0454	5.71	1
11031	123678-HxCDD	57653-85-7	0.908	JB	0.0461	5.71	1
11031	123789-HxCDD	19408-74-3	1.05	JB	0.0399	5.71	1
11031	1234678-HpCDD	35822-46-9	21.2	B	0.0485	5.71	1
11031	OCDD	3268-87-9	314	B	0.0502	11.4	1
11031	2378-TCDF	51207-31-9	0.199	JB	0.0255	1.14	1
11031	12378-PeCDF	57117-41-6	0.140	JB	0.0146	5.71	1
11031	23478-PeCDF	57117-31-4	0.389	JB	0.0152	5.71	1
11031	123478-HxCDF	70648-26-9	0.0392	U	0.0392	5.71	1
11031	123678-HxCDF	57117-44-9	0.232	JB	0.0282	5.71	1
11031	123789-HxCDF	72918-21-9	0.364	JB	0.0247	5.71	1
11031	234678-HxCDF	60851-34-5	0.397	JB	0.0223	5.71	1
11031	1234678-HpCDF	67562-39-4	3.56	JB	0.0291	5.71	1
11031	1234789-HpCDF	55673-89-7	0.388	JB	0.0326	5.71	1
11031	OCDF	39001-02-0	11.5	B	0.0313	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220810
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6005 SDG#: DX060-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220810
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6005 SDG#: DX060-05BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11075001	03/19/2011 04:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11075001	03/16/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220811
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6005 SDG#: DX060-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220811
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6005 SDG#: DX060-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	24.8	B	0.0195	1.14	1
11031	12378-PeCDD	40321-76-4	128		0.0333	5.71	1
11031	123478-HxCDD	39227-28-6	127	B	0.0719	5.71	1
11031	123678-HxCDD	57653-85-7	125	B	0.0728	5.71	1
11031	123789-HxCDD	19408-74-3	123	B	0.0669	5.71	1
11031	1234678-HpCDD	35822-46-9	145	B	0.0723	5.71	1
11031	OCDD	3268-87-9	589	B	0.0590	11.4	1
11031	2378-TCDF	51207-31-9	26.6	B	0.0439	1.14	1
11031	12378-PeCDF	57117-41-6	122	B	0.0253	5.71	1
11031	23478-PeCDF	57117-31-4	122	B	0.0245	5.71	1
11031	123478-HxCDF	70648-26-9	125	B	0.0450	5.71	1
11031	123678-HxCDF	57117-44-9	121	B	0.0383	5.71	1
11031	123789-HxCDF	72918-21-9	120	B	0.0418	5.71	1
11031	234678-HxCDF	60851-34-5	123	B	0.0400	5.71	1
11031	1234678-HpCDF	67562-39-4	123	B	0.0361	5.71	1
11031	1234789-HpCDF	55673-89-7	120	B	0.0486	5.71	1
11031	OCDF	39001-02-0	253	B	0.0419	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-048-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220811
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6005 SDG#: DX060-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5A-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220811
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6005 SDG#: DX060-05MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11075001	03/19/2011 05:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11075001	03/16/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-048-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220812
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6005 SDG#: DX060-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220812
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6005 SDG#: DX060-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	25.0	B	0.0311	1.14	1
11031	12378-PeCDD	40321-76-4	127		0.0371	5.71	1
11031	123478-HxCDD	39227-28-6	125	B	0.0707	5.71	1
11031	123678-HxCDD	57653-85-7	126	B	0.0697	5.71	1
11031	123789-HxCDD	19408-74-3	124	B	0.0590	5.71	1
11031	1234678-HpCDD	35822-46-9	144	B	0.0765	5.71	1
11031	OCDD	3268-87-9	557	B	0.0790	11.4	1
11031	2378-TCDF	51207-31-9	26.1	B	0.0437	1.14	1
11031	12378-PeCDF	57117-41-6	124	B	0.0266	5.71	1
11031	23478-PeCDF	57117-31-4	122	B	0.0273	5.71	1
11031	123478-HxCDF	70648-26-9	124	B	0.0861	5.71	1
11031	123678-HxCDF	57117-44-9	122	B	0.0720	5.71	1
11031	123789-HxCDF	72918-21-9	121	B	0.0640	5.71	1
11031	234678-HxCDF	60851-34-5	123	B	0.0577	5.71	1
11031	1234678-HpCDF	67562-39-4	124	B	0.0619	5.71	1
11031	1234789-HpCDF	55673-89-7	120	B	0.0648	5.71	1
11031	OCDF	39001-02-0	252	B	0.0698	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	56	32 - 141
13C12-123678-HxCDD	60	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	60	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220812
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6005 SDG#: DX060-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5A-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SS-0.0-0.5

LLI Sample # SW 6220812
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:55

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6005 SDG#: DX060-05MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11075001	03/19/2011 06:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11075001	03/16/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-176-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5A-SS-0.0-0.3

LLI Sample # SW 6220813
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:49

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6006 SDG#: DX060-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-176-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5A-SS-0.0-0.3

LLI Sample # SW 6220813
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:49

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6006 SDG#: DX060-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.219	JB	0.0277	1.12	1
11031	12378-PeCDD	40321-76-4	1.02	J	0.0636	5.61	1
11031	123478-HxCDD	39227-28-6	1.48	JB	0.0845	5.61	1
11031	123678-HxCDD	57653-85-7	5.39	JB	0.0858	5.61	1
11031	123789-HxCDD	19408-74-3	3.42	JB	0.0797	5.61	1
11031	1234678-HpCDD	35822-46-9	172	B	0.129	5.61	1
11031	OCDD	3268-87-9	2,120	B	0.197	11.2	1
11031	2378-TCDF	51207-31-9	2.98	B	0.138	1.12	1
11650	2378-TCDF-Conf	51207-31-9	2.32		0.0626	1.12	1
11031	12378-PeCDF	57117-41-6	0.767	JB	0.0696	5.61	1
11031	23478-PeCDF	57117-31-4	2.39	JB	0.0712	5.61	1
11031	123478-HxCDF	70648-26-9	2.73	JB	0.114	5.61	1
11031	123678-HxCDF	57117-44-9	1.34	JB	0.0927	5.61	1
11031	123789-HxCDF	72918-21-9	0.699	JB	0.0623	5.61	1
11031	234678-HxCDF	60851-34-5	1.68	JB	0.0622	5.61	1
11031	1234678-HpCDF	67562-39-4	18.4	B	0.0805	5.61	1
11031	1234789-HpCDF	55673-89-7	1.79	JB	0.0713	5.61	1
11031	OCDF	39001-02-0	66.2	B	0.0578	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	91	25 - 164
13C12-2378-TCDF-Conf	91	24 - 169
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	93	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	95	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	101	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-176-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5A-SS-0.0-0.3

LLI Sample # SW 6220813
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:49

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6006 SDG#: DX060-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-176-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5A-SS-0.0-0.3

LLI Sample # SW 6220813
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:49

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6006 SDG#: DX060-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11075001	03/19/2011 07:37	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11075001	03/25/2011 22:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11075001	03/16/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-178-SA5A-SS-0.0-0.4 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5A-SS-0.0-0.4

LLI Sample # SW 6220814
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:17

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6007 SDG#: DX060-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-178-SA5A-SS-0.0-0.4 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5A-SS-0.0-0.4

LLI Sample # SW 6220814
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:17

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6007 SDG#: DX060-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.168	JB	0.0221	1.06	1
11031	12378-PeCDD	40321-76-4	1.22	J	0.0673	5.29	1
11031	123478-HxCDD	39227-28-6	2.01	JB	0.0625	5.29	1
11031	123678-HxCDD	57653-85-7	6.36	B	0.0639	5.29	1
11031	123789-HxCDD	19408-74-3	4.27	JB	0.0567	5.29	1
11031	1234678-HpCDD	35822-46-9	188	B	0.0964	5.29	1
11031	OCDD	3268-87-9	2,020	B	0.136	10.6	1
11031	2378-TCDF	51207-31-9	7.14	B	0.0957	1.06	1
11650	2378-TCDF-Conf	51207-31-9	6.38		0.0460	1.06	1
11031	12378-PeCDF	57117-41-6	2.11	JB	0.0562	5.29	1
11031	23478-PeCDF	57117-31-4	6.15	B	0.0559	5.29	1
11031	123478-HxCDF	70648-26-9	10.9	B	0.0819	5.29	1
11031	123678-HxCDF	57117-44-9	2.77	JB	0.0713	5.29	1
11031	123789-HxCDF	72918-21-9	0.706	JB	0.0632	5.29	1
11031	234678-HxCDF	60851-34-5	2.82	JB	0.0576	5.29	1
11031	1234678-HpCDF	67562-39-4	34.1	B	0.0619	5.29	1
11031	1234789-HpCDF	55673-89-7	2.66	JB	0.0633	5.29	1
11031	OCDF	39001-02-0	105	B	0.0542	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-2378-TCDF-Conf	76	24 - 169
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	98	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-178-SA5A-SS-0.0-0.4 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5A-SS-0.0-0.4

LLI Sample # SW 6220814
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:17

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6007 SDG#: DX060-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-178-SA5A-SS-0.0-0.4 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5A-SS-0.0-0.4

LLI Sample # SW 6220814
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:17

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6007 SDG#: DX060-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11075001	03/19/2011 08:34	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11075001	03/25/2011 23:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11075001	03/16/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-179-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5A-SS-0.0-0.3

LLI Sample # SW 6220815
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:00

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6008 SDG#: DX060-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-179-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5A-SS-0.0-0.3

LLI Sample # SW 6220815
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:00

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6008 SDG#: DX060-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.146	JB	0.0304	1.07	1
11031	12378-PeCDD	40321-76-4	1.01	J	0.0507	5.33	1
11031	123478-HxCDD	39227-28-6	1.66	JB	0.0658	5.33	1
11031	123678-HxCDD	57653-85-7	6.69	B	0.0675	5.33	1
11031	123789-HxCDD	19408-74-3	3.69	JB	0.0603	5.33	1
11031	1234678-HpCDD	35822-46-9	228	B	0.125	5.33	1
11031	OCDD	3268-87-9	2,740	B	0.193	10.7	1
11031	2378-TCDF	51207-31-9	0.994	JB	0.0623	1.07	1
11031	12378-PeCDF	57117-41-6	0.627	JB	0.0398	5.33	1
11031	23478-PeCDF	57117-31-4	1.47	JB	0.0398	5.33	1
11031	123478-HxCDF	70648-26-9	2.91	JB	0.0690	5.33	1
11031	123678-HxCDF	57117-44-9	1.34	JB	0.0608	5.33	1
11031	123789-HxCDF	72918-21-9	0.434	JB	0.0554	5.33	1
11031	234678-HxCDF	60851-34-5	1.39	JB	0.0486	5.33	1
11031	1234678-HpCDF	67562-39-4	29.4	B	0.0668	5.33	1
11031	1234789-HpCDF	55673-89-7	2.14	JB	0.0668	5.33	1
11031	OCDF	39001-02-0	116	B	0.0710	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-179-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5A-SS-0.0-0.3

LLI Sample # SW 6220815
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:00

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6008 SDG#: DX060-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-179-SA5A-SS-0.0-0.3 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5A-SS-0.0-0.3

LLI Sample # SW 6220815
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:00

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6008 SDG#: DX060-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11075001	03/19/2011 09:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11075001	03/16/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-186-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SS-0.0-0.5

LLI Sample # SW 6220817
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 13:25

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6010 SDG#: DX060-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-186-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SS-0.0-0.5

LLI Sample # SW 6220817
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 13:25

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6010 SDG#: DX060-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.175	JBQ	0.0943	1.19	1
11031	12378-PeCDD	40321-76-4	0.805	JQ	0.103	5.95	1
11031	123478-HxCDD	39227-28-6	1.29	JBQ	0.194	5.95	1
11031	123678-HxCDD	57653-85-7	5.71	JB	0.202	5.95	1
11031	123789-HxCDD	19408-74-3	2.64	JB	0.190	5.95	1
11031	1234678-HpCDD	35822-46-9	182	B	0.404	5.95	1
11031	OCDD	3268-87-9	2,440	B	0.907	11.9	1
11031	2378-TCDF	51207-31-9	1.08	JB	0.131	1.19	1
11031	12378-PeCDF	57117-41-6	0.316	JBQ	0.0958	5.95	1
11031	23478-PeCDF	57117-31-4	1.41	JBQ	0.0952	5.95	1
11031	123478-HxCDF	70648-26-9	1.21	JB	0.146	5.95	1
11031	123678-HxCDF	57117-44-9	0.884	JB	0.118	5.95	1
11031	123789-HxCDF	72918-21-9	0.666	JB	0.107	5.95	1
11031	234678-HxCDF	60851-34-5	1.22	JB	0.0987	5.95	1
11031	1234678-HpCDF	67562-39-4	17.6	B	0.176	5.95	1
11031	1234789-HpCDF	55673-89-7	1.73	JB	0.178	5.95	1
11031	OCDF	39001-02-0	51.8	B	0.191	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-186-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SS-0.0-0.5

LLI Sample # SW 6220817
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 13:25

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6010 SDG#: DX060-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-186-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SS-0.0-0.5

LLI Sample # SW 6220817
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 13:25

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6010 SDG#: DX060-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11075001	03/19/2011 10:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11075001	03/16/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-188-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SS-0.0-0.5

LLI Sample # SW 6220818
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:01

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6011 SDG#: DX060-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-188-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SS-0.0-0.5

LLI Sample # SW 6220818
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:01

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6011 SDG#: DX060-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0360	JBQ	0.0121	1.12	1
11031	12378-PeCDD	40321-76-4	0.257	J	0.0278	5.62	1
11031	123478-HxCDD	39227-28-6	0.459	JB	0.0518	5.62	1
11031	123678-HxCDD	57653-85-7	2.54	JB	0.0516	5.62	1
11031	123789-HxCDD	19408-74-3	1.57	JB	0.0492	5.62	1
11031	1234678-HpCDD	35822-46-9	88.5	B	0.0938	5.62	1
11031	OCDD	3268-87-9	1,290	B	0.139	11.2	1
11031	2378-TCDF	51207-31-9	0.621	JB	0.0531	1.12	1
11031	12378-PeCDF	57117-41-6	0.307	JB	0.0282	5.62	1
11031	23478-PeCDF	57117-31-4	0.883	JB	0.0283	5.62	1
11031	123478-HxCDF	70648-26-9	0.789	JB	0.0598	5.62	1
11031	123678-HxCDF	57117-44-9	0.558	JB	0.0440	5.62	1
11031	123789-HxCDF	72918-21-9	0.723	JB	0.0354	5.62	1
11031	234678-HxCDF	60851-34-5	0.710	JB	0.0362	5.62	1
11031	1234678-HpCDF	67562-39-4	8.10	B	0.0409	5.62	1
11031	1234789-HpCDF	55673-89-7	0.760	JB	0.0426	5.62	1
11031	OCDF	39001-02-0	16.7	B	0.0535	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	98	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-188-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SS-0.0-0.5

LLI Sample # SW 6220818
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:01

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6011 SDG#: DX060-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-188-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SS-0.0-0.5

LLI Sample # SW 6220818
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:01

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6011 SDG#: DX060-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11075001	03/19/2011 11:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11075001	03/16/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-189-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SS-0.0-0.5

LLI Sample # SW 6220819
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:15

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6012 SDG#: DX060-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SS-0.0-0.5

LLI Sample # SW 6220819
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:15

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6012 SDG#: DX060-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0393	JBQ	0.0136	1.18	1
11031	12378-PeCDD	40321-76-4	0.158	J	0.0227	5.92	1
11031	123478-HxCDD	39227-28-6	0.192	JBQ	0.0506	5.92	1
11031	123678-HxCDD	57653-85-7	0.904	JB	0.0520	5.92	1
11031	123789-HxCDD	19408-74-3	0.569	JB	0.0496	5.92	1
11031	1234678-HpCDD	35822-46-9	27.7	B	0.0693	5.92	1
11031	OCDD	3268-87-9	400	B	0.0938	11.8	1
11031	2378-TCDF	51207-31-9	0.401	JB	0.0472	1.18	1
11031	12378-PeCDF	57117-41-6	0.100	JBQ	0.0238	5.92	1
11031	23478-PeCDF	57117-31-4	0.477	JB	0.0245	5.92	1
11031	123478-HxCDF	70648-26-9	0.302	JB	0.0325	5.92	1
11031	123678-HxCDF	57117-44-9	0.182	JB	0.0294	5.92	1
11031	123789-HxCDF	72918-21-9	0.134	JB	0.0312	5.92	1
11031	234678-HxCDF	60851-34-5	0.309	JB	0.0269	5.92	1
11031	1234678-HpCDF	67562-39-4	2.84	JB	0.0270	5.92	1
11031	1234789-HpCDF	55673-89-7	0.274	JB	0.0336	5.92	1
11031	OCDF	39001-02-0	6.64	JB	0.0487	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-189-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SS-0.0-0.5

LLI Sample # SW 6220819
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:15

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6012 SDG#: DX060-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-189-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SS-0.0-0.5

LLI Sample # SW 6220819
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 14:15

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6012 SDG#: DX060-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11075001	03/19/2011 12:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11075001	03/16/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401A	03/11/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: **EB05-SA5A-030211 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5A-030211

LLI Sample # WW 6220820
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:15

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6013 SDG#: DX060-13EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.0707 U	0.0707	1.90	1
10915	12378-PeCDD	40321-76-4	0.144 JB	0.0836	9.50	1
10915	123478-HxCDD	39227-28-6	0.179 JBQ	0.0815	9.50	1
10915	123678-HxCDD	57653-85-7	0.122 JBQ	0.0742	9.50	1
10915	123789-HxCDD	19408-74-3	0.116 JBQ	0.0636	9.50	1
10915	1234678-HpCDD	35822-46-9	3.44 JB	0.107	9.50	1
10915	OCDD	3268-87-9	6.44 JB	0.132	19.0	1
10915	2378-TCDF	51207-31-9	0.0806 JB	0.0611	1.90	1
10915	12378-PeCDF	57117-41-6	0.170 JBQ	0.0481	9.50	1
10915	23478-PeCDF	57117-31-4	0.632 JB	0.0476	9.50	1
10915	123478-HxCDF	70648-26-9	0.536 JB	0.139	9.50	1
10915	123678-HxCDF	57117-44-9	0.333 JB	0.105	9.50	1
10915	123789-HxCDF	72918-21-9	0.227 JBQ	0.0617	9.50	1
10915	234678-HxCDF	60851-34-5	0.785 JB	0.0596	9.50	1
10915	1234678-HpCDF	67562-39-4	3.03 JB	0.105	9.50	1
10915	1234789-HpCDF	55673-89-7	0.329 JBQ	0.0701	9.50	1
10915	OCDF	39001-02-0	1.69 JB	0.0985	19.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	53	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	61	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	37	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	33	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB05-SA5A-030211 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5A-030211

LLI Sample # WW 6220820
LLI Group # 1235573
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:15

Submitted: 03/03/2011 09:15
Reported: 03/30/2011 17:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6013 SDG#: DX060-13EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066002	03/12/2011 00:07	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11066002	03/08/2011 08:00	Deborah M Zimmerman	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235573
Reported: 03/30/11 at 05:00 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11070162401A	Sample number(s): 6220806-6220815,6220817-6220819								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11066002	Sample number(s): 6220820								
2378-TCDD	0.156 U	0.156	2.00	pg/l	84		67-158		
12378-PeCDD	0.374 J	0.195	10.0	pg/l	87		70-142		
123478-HxCDD	0.576 J	0.162	10.0	pg/l	89		70-164		
123678-HxCDD	0.332 J	0.169	10.0	pg/l	88		76-134		
123789-HxCDD	0.634 J	0.156	10.0	pg/l	87		64-162		
1234678-HpCDD	3.30 J	0.199	10.0	pg/l	90		70-140		
OCDD	6.88 J	0.265	20.0	pg/l	94		78-144		
2378-TCDF	0.158 J	0.112	2.00	pg/l	87		75-158		
12378-PeCDF	0.528 J	0.110	10.0	pg/l	83		80-134		
23478-PeCDF	1.10 J	0.101	10.0	pg/l	83		68-160		
123478-HxCDF	1.04 J	0.207	10.0	pg/l	88		72-134		
123678-HxCDF	1.11 J	0.189	10.0	pg/l	89		84-130		
123789-HxCDF	1.20 J	0.196	10.0	pg/l	87		78-130		
234678-HxCDF	1.70 J	0.180	10.0	pg/l	88		70-156		
1234678-HpCDF	6.54 J	0.182	10.0	pg/l	93		82-122		
1234789-HpCDF	1.19 J	0.205	10.0	pg/l	90		78-138		
OCDF	4.19 J	0.234	20.0	pg/l	92		63-170		
Batch number: 11075001	Sample number(s): 6220807-6220815,6220817-6220819								
2378-TCDD	0.0127 J	0.0100	1.00	ng/kg	111		67-158		
12378-PeCDD	0.00890 U	0.00890	5.00	ng/kg	112		70-142		
123478-HxCDD	0.0127 J	0.00820	5.00	ng/kg	111		70-164		
123678-HxCDD	0.0269 J	0.00840	5.00	ng/kg	111		76-134		
123789-HxCDD	0.0191 J	0.00800	5.00	ng/kg	109		64-162		
1234678-HpCDD	0.256 J	0.0139	5.00	ng/kg	108		70-140		
OCDD	0.493 J	0.0132	10.0	ng/kg	107		78-144		
2378-TCDF	0.0185 J	0.00790	1.00	ng/kg	116		75-158		
2378-TCDF-Conf	0.0262 U	0.0262	1.00	ng/kg					
12378-PeCDF	0.0410 J	0.00470	5.00	ng/kg	108		80-134		
23478-PeCDF	0.0905 J	0.00440	5.00	ng/kg	108		68-160		
123478-HxCDF	0.0643 J	0.0104	5.00	ng/kg	108		72-134		
123678-HxCDF	0.0553 J	0.00860	5.00	ng/kg	107		84-130		
123789-HxCDF	0.0579 J	0.00900	5.00	ng/kg	106		78-130		
234678-HxCDF	0.155 J	0.00800	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.415 J	0.00760	5.00	ng/kg	106		82-122		
1234789-HpCDF	0.0742 J	0.00920	5.00	ng/kg	106		78-138		
OCDF	0.337 J	0.0146	10.0	ng/kg	106		63-170		
Batch number: 11083001	Sample number(s): 6220806								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235573
Reported: 03/30/11 at 05:00 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
2378-TCDD	0.0184 J	0.0116	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0317 J	0.0137	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0256 J	0.0122	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0244 J	0.0125	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0275 J	0.0120	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.202 J	0.0177	5.00	ng/kg	92		70-140		
OCDD	0.392 J	0.0215	10.0	ng/kg	91		78-144		
2378-TCDF	0.0219 J	0.0127	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0346 J	0.00620	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0885 J	0.00690	5.00	ng/kg	93		68-160		
123478-HxCDF	0.0527 J	0.0118	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0416 J	0.00890	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0883 J	0.0140	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0701 J	0.0105	5.00	ng/kg	91		70-156		
1234678-HpCDF	0.141 J	0.00740	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0667 J	0.0165	5.00	ng/kg	90		78-138		
OCDF	0.221 J	0.0278	10.0	ng/kg	89		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11070162401A	Sample number(s): 6220806-6220815,6220817-6220819					BKG: P220791			
Moisture Content by 160.3						12.5	12.3	2	20
Batch number: 11075001	Sample number(s): 6220807-6220815,6220817-6220819 UNSPK: 6220810								
2378-TCDD	108	109	67-158	1	25				
12378-PeCDD	112	111	70-142	1	25				
123478-HxCDD	111	110	70-164	1	25				
123678-HxCDD	109	109	76-134	1	25				
123789-HxCDD	106	107	64-162	1	25				
1234678-HpCDD	108	108	70-140	1	25				
OCDD	120	106	78-144	6	25				
2378-TCDF	115	113	75-158	2	25				
12378-PeCDF	107	108	80-134	1	25				
23478-PeCDF	106	106	68-160	0	25				
123478-HxCDF	109	108	72-134	0	25				
123678-HxCDF	105	106	84-130	1	25				
123789-HxCDF	105	106	78-130	1	25				
234678-HxCDF	107	108	70-156	0	25				
1234678-HpCDF	105	106	82-122	1	25				
1234789-HpCDF	105	105	78-138	0	25				
OCDF	105	105	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235573
Reported: 03/30/11 at 05:00 PM

Surrogate Quality Control

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11066002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6220820	68	60	27	37	60	64
Blank	42	36	32	34	34	36
OPR	74	68	65	66	67	71
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6220820	33	58	49	90	70	53
Blank	34	34	33	86	38	37
OPR	66	65	61	86	74	75
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6220820	61	66	63	56	66	61
Blank	37	38	38	36	43	35
OPR	73	73	72	66	68	67
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11075001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6220807	78	78	43	56	76	76
6220808	83	79	60	76	82	81
6220809	85	102	59	73	87	83
6220810	81	83	49	65	85	82
6220811	79	85	75	86	86	85
6220812	62	63	45	52	68	65
6220813	91	92	54	64	91	95
6220814	84	86	63	73	90	89
6220815	73	76	55	61	77	72
6220817	86	86	62	73	85	85
6220818	87	84	59	75	89	87
6220819	80	80	74	81	82	80
Blank	84	92	74	87	93	90
MS	79	85	75	86	86	85
MSD	62	63	45	52	68	65
OPR	75	83	67	79	84	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6220807	60	63	56	91	80	71
6220808	80	67	58	94	82	81
6220809	87	79	75	98	96	82
6220810	68	68	59	94	82	78

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235573
Reported: 03/30/11 at 05:00 PM

Surrogate Quality Control

6220811	90	75	70	90	84	83
6220812	53	58	48	69	64	56
6220813	68	84	76	101	91	85
6220814	66	74	59	98	82	83
6220815	58	62	50	84	74	72
6220817	66	71	58	95	83	87
6220818	63	68	52	98	81	79
6220819	71	64	50	95	77	78
Blank	88	83	77	104	88	89
MS	90	75	70	90	84	83
MSD	53	58	48	69	64	56
OPR	79	68	58	94	82	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6220807	78	80	74	72	80	82
6220808	85	84	78	74	83	83
6220809	83	85	88	88	87	101
6220810	80	85	77	71	84	92
6220811	86	86	80	78	83	88
6220812	60	69	60	54	65	68
6220813	89	91	85	78	93	94
6220814	83	86	73	59	89	86
6220815	71	73	65	54	76	76
6220817	77	83	74	58	87	85
6220818	84	86	70	54	90	84
6220819	82	80	66	51	83	80
Blank	91	93	88	84	88	94
MS	86	86	80	78	83	88
MSD	60	69	60	54	65	68
OPR	83	82	76	66	80	88
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6220807	78
6220808	82
6220809	
6220810	
6220811	
6220812	
6220813	91
6220814	76
6220815	
6220817	
6220818	
6220819	
Blank	83
MS	
MSD	
OPR	
Limits:	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235573
Reported: 03/30/11 at 05:00 PM

Surrogate Quality Control

Batch number: 11083001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6220806	73	74	65	77	70	62
Blank	87	76	67	86	75	64
OPR	69	72	66	75	71	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6220806	89	57	53	96	76	73
Blank	107	57	50	114	87	86
OPR	88	62	59	98	73	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6220806	77	76	77	74	71	80
Blank	91	88	88	82	75	90
OPR	77	73	75	74	68	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6220806	
Blank	72
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Grp# 1235573 Samp6# 6220806-20

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
DUP-07-SA5A-QC-030211	3.02.11	0858	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	Amended COC
DUP-07-SA5A-QC-030211	3.02.11	0858	SOIL	NONE	1-6 inch sleeve			X	X							
SL-042-SA5A-SS-0.0-0.5	3.02.11	1011	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-042-SA5A-SS-0.0-0.5	3.02.11	1011	SOIL	NONE	1-6 inch sleeve			X	X							
SL-044-SA5A-SS-0.0-0.5	3.02.11	0958	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-044-SA5A-SS-0.0-0.5	3.02.11	0958	SOIL	NONE	1-6 inch sleeve			X	X							
SL-045-SA5A-SS-0.0-0.5	3.02.11	0930	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-045-SA5A-SS-0.0-0.5	3.02.11	0930	SOIL	NONE	1-6 inch sleeve			X	X							
SL-048-SA5A-SS-0.0-0.5MS	3.02.11	0855	SOIL	NONE	2-16 oz jars	X	X			X	X	X		X	X	
SL-048-SA5A-SS-0.0-0.5MS	3.02.11	0855	SOIL	NONE	2-6 inch sleeves			X	X							
SL-176-SA5A-SS-0.0-0.3	3.02.11	1149	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-176-SA5A-SS-0.0-0.3	3.02.11	1149	SOIL	NONE	1-6 inch sleeve			X	X							
SL-178-SA5A-SS-0.0-0.4	3.02.11	1117	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-178-SA5A-SS-0.0-0.4	3.02.11	1117	SOIL	NONE	1-6 inch sleeve			X	X							
SL-179-SA5A-SS-0.0-0.3	3.02.11	1100	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-179-SA5A-SS-0.0-0.3	3.02.11	1100	SOIL	NONE	1-6 inch sleeve			X	X							
~~SL-182-SA5A-SS-0.0-0.5~~	~~3.02.11~~	~~1435~~	~~SOIL~~	~~NONE~~	~~1-16 oz jar~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	Voided per PB. NLM 3/2/11
~~SL-182-SA5A-SS-0.0-0.5~~	~~3.02.11~~	~~1435~~	~~SOIL~~	~~NONE~~	~~1-6 inch sleeve~~			~~X~~	~~X~~							
SL-186-SA5A-SS-0.0-0.5	3.02.11	1325	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-186-SA5A-SS-0.0-0.5	3.02.11	1325	SOIL	NONE	1-6 inch sleeve			X	X							
SL-188-SA5A-SS-0.0-0.5	3.02.11	1401	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-188-SA5A-SS-0.0-0.5	3.02.11	1401	SOIL	NONE	1-6 inch sleeve			X	X							
SL-189-SA5A-SS-0.0-0.5	3.02.11	1415	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-189-SA5A-SS-0.0-0.5	3.02.11	1415	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (Signature) — Date/Time: 03/02/2011 / 17:00

Received for Laboratory by: (Signature) 3/3/11 915 — Date/Time: 3/2/11

Received by: (Signature) — Date/Time: 3/3/11

Airbill No.(s): 8700 5935 3881; 8700 5935 3907
8700 5935 3940

Laboratory: Lancaster Laboratories, Inc.

SURFACE

acct# 13013 Cp# 1235573 Sample# 6220806-20

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								SS ONLY		Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
Samplers Signatures:																	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
EB05-SA5A-030211	3.02.11	1215	WATER	NONE	6-1 L ambers			X	X	X				X	X	Surface rinsate blank	
EB05-SA5A-030211	3.02.11	1215	WATER	HNO3	1-500 mL poly		X									Surface rinsate blank	
EB05-SA5A-030211	3.02.11	1215	WATER	NONE	1-500 mL poly			X				X	X			Surface rinsate blank	
Relinquished by: (*Signature*)	Date/Time 03/02/2011 / 17:00		Received for Laboratory by: (*Signature*) 3/3/11 915														Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No(s) 8700 5935 3881; 8700 5935 3907 8700 5935 3940														SURFACE

Nicole Maljovec A# 13013 G# 1235573 S# G220806-20

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Friday, March 04, 2011 2:24 PM
To: Nicole Maljovec
Subject: Please do not analyze sample SL-182

Hi Nicole – I just realized that the following sample should not have been collected:

SL-182-SA5A-SS-0.0-0.5 (collected on 3/2/2011)

Please do not have it analyzed. Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

acct #13013 Qp # 1235573 samp6 # 6220806-20

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
DUP-07-SA5A-QC-030211	3.02.11	0858	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
DUP-07-SA5A-QC-030211	3.02.11	0858	SOIL	NONE	1-6 inch sleeve			X	X							
SL-042-SA5A-SS-0.0-0.5	3.02.11	1011	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-042-SA5A-SS-0.0-0.5	3.02.11	1011	SOIL	NONE	1-6 inch sleeve			X	X							
SL-044-SA5A-SS-0.0-0.5	3.02.11	0958	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-044-SA5A-SS-0.0-0.5	3.02.11	0958	SOIL	NONE	1-6 inch sleeve			X	X							
SL-045-SA5A-SS-0.0-0.5	3.02.11	0930	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-045-SA5A-SS-0.0-0.5	3.02.11	0930	SOIL	NONE	1-6 inch sleeve			X	X							
SL-048-SA5A-SS-0.0-0.5MS	3.02.11	0855	SOIL	NONE	2-16 oz jars	X	X			X	X	X		X	X	
SL-048-SA5A-SS-0.0-0.5MS	3.02.11	0855	SOIL	NONE	2-6 inch sleeves			X	X							
SL-176-SA5A-SS-0.0-0.3	3.02.11	1149	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-176-SA5A-SS-0.0-0.3	3.02.11	1149	SOIL	NONE	1-6 inch sleeve			X	X							
SL-178-SA5A-SS-0.0-0.4	3.02.11	1117	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-178-SA5A-SS-0.0-0.4	3.02.11	1117	SOIL	NONE	1-6 inch sleeve			X	X							
SL-179-SA5A-SS-0.0-0.3	3.02.11	1100	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-179-SA5A-SS-0.0-0.3	3.02.11	1100	SOIL	NONE	1-6 inch sleeve			X	X							
SL-182-SA5A-SS-0.0-0.5	3.02.11	1435	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X	
SL-182-SA5A-SS-0.0-0.5	3.02.11	1435	SOIL	NONE	1-6 inch sleeve			X	X							
SL-186-SA5A-SS-0.0-0.5	3.02.11	1325	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-186-SA5A-SS-0.0-0.5	3.02.11	1325	SOIL	NONE	1-6 inch sleeve			X	X							
SL-188-SA5A-SS-0.0-0.5	3.02.11	1401	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-188-SA5A-SS-0.0-0.5	3.02.11	1401	SOIL	NONE	1-6 inch sleeve			X	X							
SL-189-SA5A-SS-0.0-0.5	3.02.11	1415	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X	
SL-189-SA5A-SS-0.0-0.5	3.02.11	1415	SOIL	NONE	1-6 inch sleeve			X	X							

Relinquished by: (Signature) — Date/Time: 03/02/2011 / 17:00

Received for Laboratory by: (Signature) 3/3/11 — 915

Received by: (Signature) — Date/Time

Airbill No.(s) 3/8/11
8700 5935 3881; 8700 5935 3907
8700 5935 3940

Laboratory:
Lancaster Laboratories, Inc.

SURFACE

acct#13013 Qp#1235573 Sample#6220806-20

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								SS ONLY		
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers											
EB05-SA5A-030211	3.02.11	1215	WATER	NONE	6-1 L ambers			X	X	X				X	X	Surface rinsate blank
EB05-SA5A-030211	3.02.11	1215	WATER	HNO3	1-500 mL poly	X										Surface rinsate blank
EB05-SA5A-030211	3.02.11	1215	WATER	NONE	1-500 mL poly		X				X	X				Surface rinsate blank
Relinquished by: (*Signature*)	Date/Time 03/02/2011 / 17:00		Received for Laboratory by: (*Signature*) 3/3/11 915													Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No(s) 8700 5935 3881; 8700 5935 3907 8700 5935 3940													SURFACE

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 23, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/03/2011
Group Number: 1235576
SDG: DE096
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP08-SA5A-QC-030211 Soil	6220826
SL-245-SA5A-SB-4.0-5.0 Soil	6220827
SL-245-SA5A-SB-4.0-5.0MS Soil	6220828
SL-245-SA5A-SB-4.0-5.0MSD Soil	6220829
SL-245-SA5A-SB-4.0-5.0DUP Soil	6220830
SL-245-SA5A-SB-9.0-10.0 Soil	6220831
SL-245-SA5A-SB-29.0-30.0 Soil	6220832
SL-246-SA5A-SB-4.0-5.0 Soil	6220833
SL-246-SA5A-SB-9.0-10.0 Soil	6220834
SL-247-SA5A-SB-4.0-5.0 Soil	6220835
SL-247-SA5A-SB-9.0-10.0 Soil	6220836
TB-030211 Water	6220837

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Marla S. Lord
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP08-SA5A-QC-030211 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5A-QC-030211

LLI Sample # SW 6220826
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:08

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9601 SDG#: DE096-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.1	U	7.1	8.4	0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.2	0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2	0.96
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2	0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2	0.96
06192	Bromoform	75-25-2	0.42	U	0.42	4.2	0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2	0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4	0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2	0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2	0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2	0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2	0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2	0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2	0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2	0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.2	0.96
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2	0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2	0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2	0.96
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3	0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2	0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2	0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2	0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2	0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2	0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2	0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2	0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2	0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2	0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2	0.96
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2	0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2	0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2	0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2	0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2	0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2	0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2	0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2	0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2	0.96
06192	Ethylbenzene	100-41-4	0.15	J	0.06	4.2	0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.2	0.96
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3	0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2	0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4	0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2	0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2	0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2	0.96
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4	0.96
06192	Methylene Chloride	75-09-2	0.78	J	0.25	4.2	0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2	0.96

*=This limit was used in the evaluation of the final result

Sample Description: DUP08-SA5A-QC-030211 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5A-QC-030211

LLI Sample # SW 6220826
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:08

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9601 SDG#: DE096-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2	0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2	0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2	0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2	0.96
06192	Toluene	108-88-3	0.08	U	0.08	4.2	0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2	0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2	0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2	0.96
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2	0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2	0.96
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2	0.96
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2	0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2	0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2	0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2	0.96
06192	m+p-Xylene	179601-23-1	0.51	J	0.18	4.2	0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2	0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15	22.24
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP08-SA5A-QC-030211 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5A-QC-030211

LLI Sample # SW 6220826
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:08

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9601 SDG#: DE096-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP08-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5A-QC-030211

LLI Sample # SW 6220826
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:08

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9601 SDG#: DE096-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
	The LCS recovery for various compounds are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,300		5.33	21.2	1
07914	Boron	7440-42-8	2.24	J	0.944	5.30	1
01650	Calcium	7440-70-2	1,900		6.50	21.2	1
01654	Iron	7439-89-6	15,700		4.99	21.2	1
01656	Lithium	7439-93-2	20.5		0.23	2.1	1
01657	Magnesium	7439-95-4	2,980		2.69	10.6	1
06958	Manganese	7439-96-5	204		0.0827	0.530	1
10145	Phosphorus	7723-14-0	221		0.594	10.6	1
01662	Potassium	7440-09-7	2,490		19.1	53.0	1
01667	Sodium	7440-23-5	99.5	J	39.5	106	1
07968	Strontium	7440-24-6	9.97		0.0657	0.530	1
06969	Tin	7440-31-5	2.49	J	1.06	10.6	1
06970	Titanium	7440-32-6	930		0.403	1.06	1
10146	Zirconium	7440-67-7	0.891	U	0.891	5.30	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0642	U	0.0642	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.43		0.0856	0.428	2
06126	Barium	7440-39-3	63.0		0.116	0.428	2
06127	Beryllium	7440-41-7	0.461		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.0700	J	0.0428	0.107	2
06131	Chromium	7440-47-3	10.1		0.128	0.428	2

*=This limit was used in the evaluation of the final result

Sample Description: **DUP08-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5A-QC-030211

LLI Sample # SW 6220826
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:08

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9601 SDG#: DE096-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	3.65	0.0214	0.107	2
06133	Copper	7440-50-8	3.83	0.0706	0.428	2
06135	Lead	7439-92-1	4.04	0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.339	0.0535	0.107	2
06139	Nickel	7440-02-0	5.72	0.107	0.428	2
06141	Selenium	7782-49-2	0.0972 J	0.0428	0.428	2
06142	Silver	7440-22-4	0.0183 J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.252	0.0321	0.107	2
06148	Vanadium	7440-62-2	23.0	0.0235	0.107	2
06149	Zinc	7440-66-6	52.2	0.599	3.21	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	352	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.22	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **DUP08-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5A-QC-030211

LLI Sample # SW 6220826
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:08

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9601 SDG#: DE096-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110621AA	03/03/2011 19:08	Laura M Krieger	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110622AA	03/03/2011 22:37	Sara E Johnson	22.24
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106223800	03/03/2011 14:25	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106223800	03/03/2011 14:30	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106223800	03/03/2011 14:30	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106223800	03/03/2011 14:25	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 07:16	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLE026	03/18/2011 04:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLE026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110710007A	03/15/2011 16:52	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110710007A	03/13/2011 08:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 20:36	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 14:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 14:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 14:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 14:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 14:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 14:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 14:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 14:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 14:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 14:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 14:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 14:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 14:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 14:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 14:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 14:59	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP08-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5A-QC-030211

LLI Sample # SW 6220826
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:08

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9601 SDG#: DE096-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201A	03/17/2011 21:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11075075202A	03/16/2011 21:16	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11068243201A	03/11/2011 11:31	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201A	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11075075202A	03/16/2011 13:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182101B	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401B	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-245-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220827
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.1	U	6.1	7.3	0.84
06192	Benzene	71-43-2	0.09	U	0.09	3.7	0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7	0.84
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7	0.84
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7	0.84
06192	Bromoform	75-25-2	0.37	U	0.37	3.7	0.84
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7	0.84
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3	0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7	0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7	0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7	0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7	0.84
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7	0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7	0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7	0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.7	0.84
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7	0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7	0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7	0.84
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6	0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7	0.84
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7	0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7	0.84
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7	0.84
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7	0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7	0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7	0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7	0.84
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7	0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7	0.84
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7	0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7	0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7	0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7	0.84
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7	0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7	0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7	0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7	0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7	0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7	0.84
06192	Freon 113	76-13-1	0.10	U	0.10	3.7	0.84
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6	0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7	0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3	0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7	0.84
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7	0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7	0.84
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.3	0.84
06192	Methylene Chloride	75-09-2	0.62	J	0.22	3.7	0.84
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7	0.84

*=This limit was used in the evaluation of the final result

Sample Description: SL-245-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220827
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7	0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7	0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7	0.84
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7	0.84
06192	Toluene	108-88-3	0.07	U	0.07	3.7	0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7	0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7	0.84
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7	0.84
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7	0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7	0.84
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7	0.84
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7	0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7	0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7	0.84
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7	0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7	0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7	0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13	20.49
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-245-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220827
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220827
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	10	J	6.5	20	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
	The LCS recovery for various compounds are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,100		5.37	21.4	1
07914	Boron	7440-42-8	2.21	J	0.950	5.34	1
01650	Calcium	7440-70-2	2,160		6.55	21.4	1
01654	Iron	7439-89-6	16,800		5.03	21.4	1
01656	Lithium	7439-93-2	23.2		0.23	2.1	1
01657	Magnesium	7439-95-4	3,410		2.71	10.7	1
06958	Manganese	7439-96-5	226		0.0833	0.534	1
10145	Phosphorus	7723-14-0	315		0.598	10.7	1
01662	Potassium	7440-09-7	2,550		19.2	53.4	1
01667	Sodium	7440-23-5	99.8	J	39.8	107	1
07968	Strontium	7440-24-6	11.4		0.0662	0.534	1
06969	Tin	7440-31-5	2.74	J	1.07	10.7	1
06970	Titanium	7440-32-6	967		0.406	1.07	1
10146	Zirconium	7440-67-7	0.897	U	0.897	5.34	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0800	J	0.0635	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.79		0.0846	0.423	2
06126	Barium	7440-39-3	70.9		0.114	0.423	2
06127	Beryllium	7440-41-7	0.458		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.0508	J	0.0423	0.106	2
06131	Chromium	7440-47-3	11.0		0.127	0.423	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-245-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220827
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	3.96		0.0212	0.106	2
06133	Copper	7440-50-8	4.24		0.0698	0.423	2
06135	Lead	7439-92-1	3.95		0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.344		0.0529	0.106	2
06139	Nickel	7440-02-0	6.15		0.106	0.423	2
06141	Selenium	7782-49-2	0.114	J	0.0423	0.423	2
06142	Silver	7440-22-4	0.0143	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.278		0.0317	0.106	2
06148	Vanadium	7440-62-2	25.0		0.0233	0.106	2
06149	Zinc	7440-66-6	59.7		0.592	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	429		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.99		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.2		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-245-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-245-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

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LLI Group # 1235576
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E9602 SDG#: DE096-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110621AA	03/03/2011 19:30	Laura M Krieger	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110622AA	03/03/2011 22:57	Sara E Johnson	20.49
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106223800	03/03/2011 14:23	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106223800	03/03/2011 14:30	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106223800	03/03/2011 14:30	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106223800	03/03/2011 14:23	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 06:01	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLE026	03/18/2011 03:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLE026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110710007A	03/15/2011 17:15	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110710007A	03/13/2011 08:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 20:13	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 14:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 14:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 14:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 14:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 14:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 14:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 14:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 14:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 14:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 14:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 14:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 14:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 14:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 14:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 14:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 14:40	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-245-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220827
LLI Group # 1235576
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E9602 SDG#: DE096-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201A	03/17/2011 20:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11075075202A	03/16/2011 20:03	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11068243201A	03/11/2011 11:43	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201A	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11075075202A	03/16/2011 13:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182101B	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401B	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-245-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220828
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

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E9602 SDG#: DE096-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	6.3	7.5	0.87
06192	Benzene	71-43-2	19	0.09	3.8	0.87
06192	Bromobenzene	108-86-1	18	0.12	3.8	0.87
06192	Bromochloromethane	74-97-5	23	0.31	3.8	0.87
06192	Bromodichloromethane	75-27-4	17	0.08	3.8	0.87
06192	Bromoform	75-25-2	14	0.38	3.8	0.87
06192	Bromomethane	74-83-9	12	0.24	3.8	0.87
06192	2-Butanone	78-93-3	140	1.1	7.5	0.87
06192	n-Butylbenzene	104-51-8	17	0.11	3.8	0.87
06192	sec-Butylbenzene	135-98-8	19	0.06	3.8	0.87
06192	tert-Butylbenzene	98-06-6	17	0.15	3.8	0.87
06192	Carbon Tetrachloride	56-23-5	18	0.13	3.8	0.87
06192	Chlorobenzene	108-90-7	17	0.10	3.8	0.87
06192	Chloroethane	75-00-3	12	0.12	3.8	0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	17	0.28	3.8	0.87
06192	Chloroform	67-66-3	19	0.11	3.8	0.87
06192	Chloromethane	74-87-3	17	0.31	3.8	0.87
06192	2-Chlorotoluene	95-49-8	18	0.13	3.8	0.87
06192	4-Chlorotoluene	106-43-4	17	0.13	3.8	0.87
06192	Chlorotrifluoroethene	79-38-9	10	0.46	4.6	0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	15	0.66	3.8	0.87
06192	Dibromochloromethane	124-48-1	16	0.19	3.8	0.87
06192	1,2-Dibromoethane	106-93-4	17	0.16	3.8	0.87
06192	Dibromomethane	74-95-3	18	0.23	3.8	0.87
06192	1,2-Dichlorobenzene	95-50-1	16	0.08	3.8	0.87
06192	1,3-Dichlorobenzene	541-73-1	17	0.11	3.8	0.87
06192	1,4-Dichlorobenzene	106-46-7	17	0.15	3.8	0.87
06192	Dichlorodifluoromethane	75-71-8	15	0.11	3.8	0.87
06192	1,1-Dichloroethane	75-34-3	19	0.09	3.8	0.87
06192	1,2-Dichloroethane	107-06-2	19	0.14	3.8	0.87
06192	1,1-Dichloroethene	75-35-4	21	0.37	3.8	0.87
06192	cis-1,2-Dichloroethene	156-59-2	19	0.18	3.8	0.87
06192	trans-1,2-Dichloroethene	156-60-5	19	0.11	3.8	0.87
06192	1,2-Dichloropropane	78-87-5	18	0.16	3.8	0.87
06192	1,3-Dichloropropane	142-28-9	18	0.08	3.8	0.87
06192	2,2-Dichloropropane	594-20-7	19	0.16	3.8	0.87
06192	1,1-Dichloropropene	563-58-6	19	0.12	3.8	0.87
06192	cis-1,3-Dichloropropene	10061-01-5	17	0.15	3.8	0.87
06192	trans-1,3-Dichloropropene	10061-02-6	16	0.16	3.8	0.87
06192	Ethylbenzene	100-41-4	17	0.06	3.8	0.87
06192	Freon 113	76-13-1	22	0.10	3.8	0.87
06192	Freon 133a	75-88-7	18	0.46	4.6	0.85
06192	Hexachlorobutadiene	87-68-3	16	0.13	3.8	0.87
06192	2-Hexanone	591-78-6	87	1.5	7.5	0.87
06192	Isopropylbenzene	98-82-8	17	0.06	3.8	0.87
06192	p-Isopropyltoluene	99-87-6	18	0.10	3.8	0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.20	3.8	0.87
06192	4-Methyl-2-pentanone	108-10-1	84	0.37	7.5	0.87
06192	Methylene Chloride	75-09-2	20	0.23	3.8	0.87
06192	n-Propylbenzene	103-65-1	19	0.07	3.8	0.87

*=This limit was used in the evaluation of the final result

Sample Description: SL-245-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220828
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E9602 SDG#: DE096-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	17		0.09	3.8	0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	16		0.10	3.8	0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	17		0.22	3.8	0.87
06192	Tetrachloroethene	127-18-4	17		0.19	3.8	0.87
06192	Toluene	108-88-3	18		0.08	3.8	0.87
06192	1,2,3-Trichlorobenzene	87-61-6	15		0.13	3.8	0.87
06192	1,2,4-Trichlorobenzene	120-82-1	15		0.17	3.8	0.87
06192	1,1,1-Trichloroethane	71-55-6	19		0.19	3.8	0.87
06192	1,1,2-Trichloroethane	79-00-5	17		0.25	3.8	0.87
06192	Trichloroethene	79-01-6	18		0.14	3.8	0.87
06192	Trichlorofluoromethane	75-69-4	18		0.27	3.8	0.87
06192	1,2,3-Trichloropropane	96-18-4	18		0.31	3.8	0.87
06192	1,2,4-Trimethylbenzene	95-63-6	18		0.38	3.8	0.87
06192	1,3,5-Trimethylbenzene	108-67-8	18		0.09	3.8	0.87
06192	Vinyl Chloride	75-01-4	17		0.19	3.8	0.87
06192	m+p-Xylene	179601-23-1	34		0.16	3.8	0.87
06192	o-Xylene	95-47-6	17		0.16	3.8	0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	130		4.7	14	21.63
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,300		18	180	1
04688	Acenaphthylene	208-96-8	1,300		18	180	1
04688	Aniline	62-53-3	840		180	540	1
04688	Anthracene	120-12-7	1,300		18	180	1
04688	Benzidine	92-87-5	1,600	J	1,300	3,600	1
04688	Benzo(a)anthracene	56-55-3	1,300		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,600		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,600		18	180	1
04688	Benzoic acid	65-85-0	980		180	540	1
04688	Benzyl alcohol	100-51-6	1,300		180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	1,300		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,400		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,300		18	180	1
04688	Carbazole	86-74-8	1,300		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,300		36	180	1
04688	4-Chloroaniline	106-47-8	670		73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,300		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,300		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,100		18	180	1
04688	2-Chlorophenol	95-57-8	1,300		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,300		36	180	1
04688	Chrysene	218-01-9	1,400		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,500		18	180	1
04688	Dibenzofuran	132-64-9	1,300		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220828
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2-Dichlorobenzene	95-50-1	1,200	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,200	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,200	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	480	110	360	1
04688	2,4-Dichlorophenol	120-83-2	1,300	18	180	1
04688	Diethylphthalate	84-66-2	1,300	18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,300	36	180	1
04688	3,5-Dimethylphenol	108-68-9	1,400	36	180	1
04688	Dimethylphthalate	131-11-3	1,300	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100	180	540	1
04688	2,4-Dinitrophenol	51-28-5	1,900	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,300	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,300	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,400	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,400	18	360	1
04688	Fluoranthene	206-44-0	1,300	18	180	1
04688	Fluorene	86-73-7	1,300	18	180	1
04688	Hexachlorobenzene	118-74-1	1,300	18	180	1
04688	Hexachlorobutadiene	87-68-3	1,200	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,200	180	540	1
04688	Hexachloroethane	67-72-1	1,100	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500	18	180	1
04688	Isophorone	78-59-1	1,300	18	180	1
04688	1-Methylnaphthalene	90-12-0	1,300	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,200	18	180	1
04688	2-Methylphenol	95-48-7	1,300	36	180	1
04688	4-Methylphenol	106-44-5	1,300	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,200	18	180	1
04688	2-Nitroaniline	88-74-4	1,300	18	180	1
04688	3-Nitroaniline	99-09-2	1,200	36	180	1
04688	4-Nitroaniline	100-01-6	1,000	73	180	1
04688	Nitrobenzene	98-95-3	1,200	18	180	1
04688	2-Nitrophenol	88-75-5	1,200	18	180	1
04688	4-Nitrophenol	100-02-7	1,300	180	540	1
04688	N-Nitrosodimethylamine	62-75-9	1,100	36	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,200	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,300	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,800	18	180	1
04688	Pentachlorophenol	87-86-5	1,100	180	540	1
04688	Phenanthrene	85-01-8	1,300	18	180	1
04688	Phenol	108-95-2	1,300	18	180	1
04688	Pyrene	129-00-0	1,400	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,300	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,300	36	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-245-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220828
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,300		36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32		0.72	1.8	1
10138	Acenaphthylene	208-96-8	33		0.36	1.8	1
10138	Anthracene	120-12-7	33		0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	34		0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	33		0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	40		0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	17		0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	40		0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	40		6.5	19	1
10138	Di-n-butylphthalate	84-74-2	37		6.5	19	1
10138	Chrysene	218-01-9	34		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	21		0.72	1.8	1
10138	Diethylphthalate	84-66-2	33		6.5	19	1
10138	Dimethylphthalate	131-11-3	36		6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44		6.5	19	1
10138	Fluoranthene	206-44-0	36		0.72	1.8	1
10138	Fluorene	86-73-7	34		0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	20		0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	31		0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	28		0.72	1.8	1
10138	Naphthalene	91-20-3	31		0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	31		0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	58		6.5	19	1
10138	Phenanthrene	85-01-8	32		0.72	1.8	1
10138	Pyrene	129-00-0	32		0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	16		0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	17		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

The LCS recovery for various compounds are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		5.22	20.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220828
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	205	0.923	5.19	1
01650	Calcium	7440-70-2	5,280	6.36	20.7	1
01654	Iron	7439-89-6	16,500	4.89	20.7	1
01656	Lithium	7439-93-2	128	0.23	2.1	1
01657	Magnesium	7439-95-4	3,840	2.64	10.4	1
06958	Manganese	7439-96-5	249	0.0809	0.519	1
10145	Phosphorus	7723-14-0	437	0.581	10.4	1
01662	Potassium	7440-09-7	3,890	18.7	51.9	1
01667	Sodium	7440-23-5	1,080	38.7	104	1
07968	Strontium	7440-24-6	116	0.0643	0.519	1
06969	Tin	7440-31-5	367	1.04	10.4	1
06970	Titanium	7440-32-6	1,200	0.394	1.04	1
10146	Zirconium	7440-67-7	103	0.871	5.19	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.640	0.0641	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	5.61	0.0854	0.427	2
06126	Barium	7440-39-3	78.3	0.115	0.427	2
06127	Beryllium	7440-41-7	1.36	0.0171	0.107	2
06128	Cadmium	7440-43-9	1.28	0.0427	0.107	2
06131	Chromium	7440-47-3	20.5	0.128	0.427	2
06132	Cobalt	7440-48-4	55.3	0.0214	0.107	2
06133	Copper	7440-50-8	13.9	0.0705	0.427	2
06135	Lead	7439-92-1	7.28	0.0111	0.214	2
06138	Molybdenum	7439-98-7	11.8	0.0534	0.107	2
06139	Nickel	7440-02-0	16.2	0.107	0.427	2
06141	Selenium	7782-49-2	2.30	0.0427	0.427	2
06142	Silver	7440-22-4	12.3	0.0128	0.107	2
06145	Thallium	7440-28-0	0.724	0.0320	0.107	2
06148	Vanadium	7440-62-2	32.8	0.0235	0.107	2
06149	Zinc	7440-66-6	64.4	0.598	3.20	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.172	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.5	0.87	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	600	9.8	32.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	39.5	1.1	5.4	5

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220828
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-245-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110621AA	03/03/2011 19:53	Laura M Krieger	0.87
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110621AA	03/03/2011 20:37	Laura M Krieger	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110622AA	03/03/2011 23:17	Sara E Johnson	21.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106223800	03/03/2011 14:20	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106223800	03/03/2011 14:30	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106223800	03/03/2011 14:30	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106223800	03/03/2011 14:21	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 06:26	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLE026	03/18/2011 03:48	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLE026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110710007A	03/15/2011 17:38	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110710007A	03/13/2011 08:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-245-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220828
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 20:24	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 14:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 14:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 14:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 14:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 14:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 14:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 14:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 14:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 14:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 14:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 14:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 14:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 14:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 14:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 14:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 14:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201A	03/17/2011 21:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11075075202A	03/16/2011 20:51	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11068243201A	03/11/2011 12:02	Carrie E Miller	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201A	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11075075202A	03/16/2011 13:20	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-245-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220829
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	160	6.2	7.4	0.85
06192	Benzene	71-43-2	19	0.09	3.7	0.85
06192	Bromobenzene	108-86-1	18	0.12	3.7	0.85
06192	Bromochloromethane	74-97-5	22	0.31	3.7	0.85
06192	Bromodichloromethane	75-27-4	18	0.07	3.7	0.85
06192	Bromoform	75-25-2	15	0.37	3.7	0.85
06192	Bromomethane	74-83-9	14	0.23	3.7	0.85
06192	2-Butanone	78-93-3	140	1.1	7.4	0.85
06192	n-Butylbenzene	104-51-8	17	0.11	3.7	0.85
06192	sec-Butylbenzene	135-98-8	18	0.06	3.7	0.85
06192	tert-Butylbenzene	98-06-6	17	0.15	3.7	0.85
06192	Carbon Tetrachloride	56-23-5	19	0.13	3.7	0.85
06192	Chlorobenzene	108-90-7	17	0.10	3.7	0.85
06192	Chloroethane	75-00-3	14	0.12	3.7	0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	16	0.28	3.7	0.85
06192	Chloroform	67-66-3	19	0.11	3.7	0.85
06192	Chloromethane	74-87-3	17	0.31	3.7	0.85
06192	2-Chlorotoluene	95-49-8	17	0.13	3.7	0.85
06192	4-Chlorotoluene	106-43-4	17	0.13	3.7	0.85
06192	Chlorotrifluoroethene	79-38-9	10	0.44	4.4	0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	15	0.65	3.7	0.85
06192	Dibromochloromethane	124-48-1	16	0.19	3.7	0.85
06192	1,2-Dibromoethane	106-93-4	17	0.16	3.7	0.85
06192	Dibromomethane	74-95-3	18	0.22	3.7	0.85
06192	1,2-Dichlorobenzene	95-50-1	16	0.08	3.7	0.85
06192	1,3-Dichlorobenzene	541-73-1	17	0.11	3.7	0.85
06192	1,4-Dichlorobenzene	106-46-7	17	0.15	3.7	0.85
06192	Dichlorodifluoromethane	75-71-8	14	0.11	3.7	0.85
06192	1,1-Dichloroethane	75-34-3	19	0.09	3.7	0.85
06192	1,2-Dichloroethane	107-06-2	19	0.14	3.7	0.85
06192	1,1-Dichloroethene	75-35-4	21	0.36	3.7	0.85
06192	cis-1,2-Dichloroethene	156-59-2	19	0.18	3.7	0.85
06192	trans-1,2-Dichloroethene	156-60-5	19	0.11	3.7	0.85
06192	1,2-Dichloropropane	78-87-5	19	0.16	3.7	0.85
06192	1,3-Dichloropropane	142-28-9	18	0.07	3.7	0.85
06192	2,2-Dichloropropane	594-20-7	19	0.16	3.7	0.85
06192	1,1-Dichloropropene	563-58-6	19	0.12	3.7	0.85
06192	cis-1,3-Dichloropropene	10061-01-5	17	0.15	3.7	0.85
06192	trans-1,3-Dichloropropene	10061-02-6	16	0.16	3.7	0.85
06192	Ethylbenzene	100-41-4	18	0.06	3.7	0.85
06192	Freon 113	76-13-1	22	0.10	3.7	0.85
06192	Freon 133a	75-88-7	19	0.44	4.4	0.81
06192	Hexachlorobutadiene	87-68-3	15	0.13	3.7	0.85
06192	2-Hexanone	591-78-6	90	1.5	7.4	0.85
06192	Isopropylbenzene	98-82-8	17	0.06	3.7	0.85
06192	p-Isopropyltoluene	99-87-6	17	0.10	3.7	0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.19	3.7	0.85
06192	4-Methyl-2-pentanone	108-10-1	85	0.36	7.4	0.85
06192	Methylene Chloride	75-09-2	20	0.22	3.7	0.85
06192	n-Propylbenzene	103-65-1	19	0.07	3.7	0.85

*=This limit was used in the evaluation of the final result

Sample Description: SL-245-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220829
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	17		0.09	3.7	0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	16		0.10	3.7	0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	17		0.21	3.7	0.85
06192	Tetrachloroethene	127-18-4	17		0.19	3.7	0.85
06192	Toluene	108-88-3	18		0.07	3.7	0.85
06192	1,2,3-Trichlorobenzene	87-61-6	14		0.13	3.7	0.85
06192	1,2,4-Trichlorobenzene	120-82-1	15		0.17	3.7	0.85
06192	1,1,1-Trichloroethane	71-55-6	19		0.19	3.7	0.85
06192	1,1,2-Trichloroethane	79-00-5	17		0.25	3.7	0.85
06192	Trichloroethene	79-01-6	19		0.14	3.7	0.85
06192	Trichlorofluoromethane	75-69-4	18		0.27	3.7	0.85
06192	1,2,3-Trichloropropane	96-18-4	17		0.31	3.7	0.85
06192	1,2,4-Trimethylbenzene	95-63-6	17		0.37	3.7	0.85
06192	1,3,5-Trimethylbenzene	108-67-8	17		0.09	3.7	0.85
06192	Vinyl Chloride	75-01-4	17		0.19	3.7	0.85
06192	m+p-Xylene	179601-23-1	34		0.16	3.7	0.85
06192	o-Xylene	95-47-6	17		0.16	3.7	0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	150		4.8	14	22.05
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,600		18	180	1
04688	Acenaphthylene	208-96-8	1,700		18	180	1
04688	Aniline	62-53-3	1,100		180	540	1
04688	Anthracene	120-12-7	1,700		18	180	1
04688	Benzidine	92-87-5	2,200	J	1,300	3,600	1
04688	Benzo(a)anthracene	56-55-3	1,600		18	180	1
04688	Benzo(a)pyrene	50-32-8	2,000		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	2,100		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	2,000		18	180	1
04688	Benzoic acid	65-85-0	1,300		180	540	1
04688	Benzyl alcohol	100-51-6	1,700		180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,700		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,600		18	180	1
04688	Carbazole	86-74-8	1,600		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		36	180	1
04688	4-Chloroaniline	106-47-8	850		72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180	1
04688	2-Chlorophenol	95-57-8	1,700		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		36	180	1
04688	Chrysene	218-01-9	1,700		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		18	180	1
04688	Dibenzofuran	132-64-9	1,700		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220829
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2-Dichlorobenzene	95-50-1	1,500	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,400	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,500	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	740	110	360	1
04688	2,4-Dichlorophenol	120-83-2	1,700	18	180	1
04688	Diethylphthalate	84-66-2	1,600	18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,600	36	180	1
04688	3,5-Dimethylphenol	108-68-9	1,800	36	180	1
04688	Dimethylphthalate	131-11-3	1,600	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300	180	540	1
04688	2,4-Dinitrophenol	51-28-5	2,300	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,700	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,700	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	18	360	1
04688	Fluoranthene	206-44-0	1,700	18	180	1
04688	Fluorene	86-73-7	1,700	18	180	1
04688	Hexachlorobenzene	118-74-1	1,700	18	180	1
04688	Hexachlorobutadiene	87-68-3	1,500	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,800	180	540	1
04688	Hexachloroethane	67-72-1	1,400	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	18	180	1
04688	Isophorone	78-59-1	1,600	18	180	1
04688	1-Methylnaphthalene	90-12-0	1,700	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,500	18	180	1
04688	2-Methylphenol	95-48-7	1,700	36	180	1
04688	4-Methylphenol	106-44-5	1,600	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	18	180	1
04688	2-Nitroaniline	88-74-4	1,600	18	180	1
04688	3-Nitroaniline	99-09-2	1,500	36	180	1
04688	4-Nitroaniline	100-01-6	1,300	72	180	1
04688	Nitrobenzene	98-95-3	1,600	18	180	1
04688	2-Nitrophenol	88-75-5	1,600	18	180	1
04688	4-Nitrophenol	100-02-7	1,600	180	540	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	36	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,300	18	180	1
04688	Pentachlorophenol	87-86-5	1,400	180	540	1
04688	Phenanthrene	85-01-8	1,600	18	180	1
04688	Phenol	108-95-2	1,700	18	180	1
04688	Pyrene	129-00-0	1,800	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	36	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220829
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,600		36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	33		0.73	1.8	1
10138	Acenaphthylene	208-96-8	34		0.36	1.8	1
10138	Anthracene	120-12-7	35		0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	36		0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	35		0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	42		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	20		0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	41		0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	43		6.5	20	1
10138	Di-n-butylphthalate	84-74-2	38		6.5	20	1
10138	Chrysene	218-01-9	35		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	23		0.73	1.8	1
10138	Diethylphthalate	84-66-2	33		6.5	20	1
10138	Dimethylphthalate	131-11-3	39		6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45		6.5	20	1
10138	Fluoranthene	206-44-0	38		0.73	1.8	1
10138	Fluorene	86-73-7	36		0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	23		0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	33		0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	29		0.73	1.8	1
10138	Naphthalene	91-20-3	32		0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	32		0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	58		6.5	20	1
10138	Phenanthrene	85-01-8	34		0.73	1.8	1
10138	Pyrene	129-00-0	34		0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	15		0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	17		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

The LCS recovery for various compounds are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.22	20.7	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-245-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220829
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E9602 SDG#: DE096-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	203	0.923	5.19	1
01650	Calcium	7440-70-2	2,470	6.36	20.7	1
01654	Iron	7439-89-6	16,700	4.89	20.7	1
01656	Lithium	7439-93-2	125	0.23	2.1	1
01657	Magnesium	7439-95-4	3,650	2.64	10.4	1
06958	Manganese	7439-96-5	247	0.0809	0.519	1
10145	Phosphorus	7723-14-0	358	0.581	10.4	1
01662	Potassium	7440-09-7	3,670	18.7	51.9	1
01667	Sodium	7440-23-5	1,080	38.7	104	1
07968	Strontium	7440-24-6	114	0.0643	0.519	1
06969	Tin	7440-31-5	364	1.04	10.4	1
06970	Titanium	7440-32-6	1,130	0.394	1.04	1
10146	Zirconium	7440-67-7	101	0.871	5.19	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.628	0.0647	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	5.94	0.0863	0.431	2
06126	Barium	7440-39-3	79.3	0.116	0.431	2
06127	Beryllium	7440-41-7	1.32	0.0173	0.108	2
06128	Cadmium	7440-43-9	1.17	0.0431	0.108	2
06131	Chromium	7440-47-3	20.2	0.129	0.431	2
06132	Cobalt	7440-48-4	54.3	0.0216	0.108	2
06133	Copper	7440-50-8	13.9	0.0712	0.431	2
06135	Lead	7439-92-1	6.84	0.0112	0.216	2
06138	Molybdenum	7439-98-7	11.1	0.0539	0.108	2
06139	Nickel	7440-02-0	16.6	0.108	0.431	2
06141	Selenium	7782-49-2	2.17	0.0431	0.431	2
06142	Silver	7440-22-4	11.3	0.0129	0.108	2
06145	Thallium	7440-28-0	0.694	0.0324	0.108	2
06148	Vanadium	7440-62-2	33.5	0.0237	0.108	2
06149	Zinc	7440-66-6	61.7	0.604	3.24	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.168	0.0030	0.105	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-245-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220829
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110621AA	03/03/2011 20:15	Laura M Krieger	0.85
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110621AA	03/03/2011 21:00	Laura M Krieger	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110622AA	03/03/2011 23:36	Sara E Johnson	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106223800	03/03/2011 14:18	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106223800	03/03/2011 14:30	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106223800	03/03/2011 14:30	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106223800	03/03/2011 14:19	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 06:51	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLE026	03/18/2011 04:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLE026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110710007A	03/15/2011 18:01	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110710007A	03/13/2011 08:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 20:28	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 14:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 14:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 14:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 14:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 14:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 14:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 14:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 14:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 14:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 14:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 14:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 14:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 14:53	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-245-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220829
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 14:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 14:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 14:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-245-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220830
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,990		5.43	21.6	1
07914	Boron	7440-42-8	2.19	J	0.960	5.39	1
01650	Calcium	7440-70-2	1,840		6.61	21.6	1
01654	Iron	7439-89-6	15,400		5.08	21.6	1
01656	Lithium	7439-93-2	21.5		0.24	2.2	1
01657	Magnesium	7439-95-4	3,180		2.74	10.8	1
06958	Manganese	7439-96-5	227		0.0841	0.539	1
10145	Phosphorus	7723-14-0	264		0.604	10.8	1
01662	Potassium	7440-09-7	2,540		19.4	53.9	1
01667	Sodium	7440-23-5	90.3	J	40.2	108	1
07968	Strontium	7440-24-6	9.85		0.0669	0.539	1
06969	Tin	7440-31-5	2.54	J	1.08	10.8	1
06970	Titanium	7440-32-6	934		0.410	1.08	1
10146	Zirconium	7440-67-7	1.02	J	0.906	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0635	U	0.0635	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.33		0.0846	0.423	2
06126	Barium	7440-39-3	66.7		0.114	0.423	2
06127	Beryllium	7440-41-7	0.415		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.0423	U	0.0423	0.106	2
06131	Chromium	7440-47-3	9.73		0.127	0.423	2
06132	Cobalt	7440-48-4	3.78		0.0212	0.106	2
06133	Copper	7440-50-8	4.73		0.0698	0.423	2
06135	Lead	7439-92-1	4.14		0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.320		0.0529	0.106	2
06139	Nickel	7440-02-0	6.01		0.106	0.423	2
06141	Selenium	7782-49-2	0.103	J	0.0423	0.423	2
06142	Silver	7440-22-4	0.0222	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.258		0.0317	0.106	2
06148	Vanadium	7440-62-2	23.5		0.0233	0.106	2
06149	Zinc	7440-66-6	53.6		0.592	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-245-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220830
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	430	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.99	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 20:20	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 14:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 14:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 14:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 14:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 14:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 14:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 14:46	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-245-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220830
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9602 SDG#: DE096-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 14:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 14:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 14:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 14:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 14:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 14:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 14:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 14:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 14:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201A	03/17/2011 20:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11075075202A	03/16/2011 20:27	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11068243201A	03/11/2011 12:33	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201A	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11075075202A	03/16/2011 13:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182101B	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401B	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-245-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-9.0-10.0

LLI Sample # SW 6220831
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:12

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9603 SDG#: DE096-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-245-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-9.0-10.0

LLI Sample # SW 6220831
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:12

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9603 SDG#: DE096-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	1.0	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	1.0	J	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.98	J	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.75	J	0.74	1.8	1
10138	Pyrene	129-00-0	0.99	J	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.68	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1

The LCS recovery for various compounds are outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-9.0-10.0

LLI Sample # SW 6220831
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:12

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9603 SDG#: DE096-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		5.56	22.1	1
07914	Boron	7440-42-8	2.42	J	0.983	5.52	1
01650	Calcium	7440-70-2	4,620		6.77	22.1	1
01654	Iron	7439-89-6	20,700		5.20	22.1	1
01656	Lithium	7439-93-2	28.7		0.24	2.2	1
01657	Magnesium	7439-95-4	5,000		2.81	11.0	1
06958	Manganese	7439-96-5	271		0.0862	0.552	1
10145	Phosphorus	7723-14-0	411		0.619	11.0	1
01662	Potassium	7440-09-7	3,100		19.9	55.2	1
01667	Sodium	7440-23-5	114		41.2	110	1
07968	Strontium	7440-24-6	16.1		0.0685	0.552	1
06969	Tin	7440-31-5	2.80	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,140		0.420	1.10	1
10146	Zirconium	7440-67-7	0.928	U	0.928	5.52	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0656	U	0.0656	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.82		0.0875	0.438	2
06126	Barium	7440-39-3	77.5		0.118	0.438	2
06127	Beryllium	7440-41-7	0.526		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.0879	J	0.0438	0.109	2
06131	Chromium	7440-47-3	15.9		0.131	0.438	2
06132	Cobalt	7440-48-4	4.88		0.0219	0.109	2
06133	Copper	7440-50-8	6.83		0.0722	0.438	2
06135	Lead	7439-92-1	4.75		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.374		0.0547	0.109	2
06139	Nickel	7440-02-0	9.37		0.109	0.438	2
06141	Selenium	7782-49-2	0.140	J	0.0438	0.438	2
06142	Silver	7440-22-4	0.0303	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.242		0.0328	0.109	2
06148	Vanadium	7440-62-2	31.7		0.0241	0.109	2
06149	Zinc	7440-66-6	55.9		0.613	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-9.0-10.0

LLI Sample # SW 6220831
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:12

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9603 SDG#: DE096-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	435	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.26	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 07:42	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLE026	03/18/2011 05:22	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLE026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110710007A	03/15/2011 18:25	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110710007A	03/13/2011 08:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-245-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-9.0-10.0

LLI Sample # SW 6220831
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:12

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9603 SDG#: DE096-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 20:47	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 15:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/17/2011 08:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201A	03/17/2011 21:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11075075202A	03/16/2011 21:40	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11068243201A	03/11/2011 12:46	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201A	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11075075202A	03/16/2011 13:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182101B	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401B	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-245-SA5A-SB-29.0-30.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-29.0-30.0

LLI Sample # SW 6220832
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:22

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9604 SDG#: DE096-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-29.0-30.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-29.0-30.0

LLI Sample # SW 6220832
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:22

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9604 SDG#: DE096-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	1.0	J	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	11	J	6.8	20	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The LCS recovery for various compounds are outside the QC limits.
Results from the reextraction are within the limits. The hold time had

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-29.0-30.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-29.0-30.0

LLI Sample # SW 6220832
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:22

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9604 SDG#: DE096-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,920		5.65	22.5	1
07914	Boron	7440-42-8	1.77	J	1.00	5.62	1
01650	Calcium	7440-70-2	2,810		6.89	22.5	1
01654	Iron	7439-89-6	17,400		5.29	22.5	1
01656	Lithium	7439-93-2	26.1		0.25	2.2	1
01657	Magnesium	7439-95-4	3,890		2.85	11.2	1
06958	Manganese	7439-96-5	219		0.0877	0.562	1
10145	Phosphorus	7723-14-0	335		0.629	11.2	1
01662	Potassium	7440-09-7	2,870		20.2	56.2	1
01667	Sodium	7440-23-5	112	J	41.9	112	1
07968	Strontium	7440-24-6	9.05		0.0697	0.562	1
06969	Tin	7440-31-5	2.77	J	1.12	11.2	1
06970	Titanium	7440-32-6	973		0.427	1.12	1
10146	Zirconium	7440-67-7	0.944	U	0.944	5.62	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0655	U	0.0655	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.44		0.0873	0.437	2
06126	Barium	7440-39-3	73.0		0.118	0.437	2
06127	Beryllium	7440-41-7	0.429		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.0839	J	0.0437	0.109	2
06131	Chromium	7440-47-3	12.0		0.131	0.437	2
06132	Cobalt	7440-48-4	4.12		0.0218	0.109	2
06133	Copper	7440-50-8	5.12		0.0720	0.437	2
06135	Lead	7439-92-1	3.70		0.0114	0.218	2
06138	Molybdenum	7439-98-7	0.256		0.0546	0.109	2
06139	Nickel	7440-02-0	7.64		0.109	0.437	2
06141	Selenium	7782-49-2	0.106	J	0.0437	0.437	2
06142	Silver	7440-22-4	0.0131	U	0.0131	0.109	2
06145	Thallium	7440-28-0	0.230		0.0327	0.109	2
06148	Vanadium	7440-62-2	28.6		0.0240	0.109	2
06149	Zinc	7440-66-6	58.3		0.611	3.27	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.91	1.1	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1	1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-29.0-30.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-29.0-30.0

LLI Sample # SW 6220832
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:22

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9604 SDG#: DE096-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	415		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.33		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 08:07	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLE026	03/18/2011 05:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLE026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110710012A	03/15/2011 15:02	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110710007A	03/15/2011 18:48	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110710007A	03/13/2011 08:45	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110710012A	03/14/2011 09:25	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-245-SA5A-SB-29.0-30.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-29.0-30.0

LLI Sample # SW 6220832
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:22

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9604 SDG#: DE096-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 20:51	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 15:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/17/2011 08:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201A	03/17/2011 21:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11075075202A	03/16/2011 22:28	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11068243201A	03/11/2011 13:11	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201A	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11075075202A	03/16/2011 13:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182101B	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401B	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-246-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-4.0-5.0

LLI Sample # SW 6220833
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:45

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9605 SDG#: DE096-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0	0.92
06192	Benzene	71-43-2	0.1	U	0.1	4.0	0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0	0.92
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0	0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0	0.92
06192	Bromoform	75-25-2	0.40	U	0.40	4.0	0.92
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0	0.92
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0	0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0	0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0	0.92
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0	0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0	0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0	0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0	0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0	0.92
06192	Chloroform	67-66-3	0.12	U	0.12	4.0	0.92
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0	0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0	0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0	0.92
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0	0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0	0.92
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0	0.92
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0	0.92
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0	0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0	0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0	0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0	0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0	0.92
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0	0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0	0.92
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0	0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0	0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0	0.92
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0	0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0	0.92
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0	0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0	0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0	0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0	0.92
06192	Ethylbenzene	100-41-4	0.13	J	0.06	4.0	0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.0	0.92
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0	0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0	0.92
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0	0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0	0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0	0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0	0.92
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0	0.92
06192	Methylene Chloride	75-09-2	0.95	J	0.24	4.0	0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0	0.92

*=This limit was used in the evaluation of the final result

Sample Description: SL-246-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-4.0-5.0

LLI Sample # SW 6220833
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:45

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9605 SDG#: DE096-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0	0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0	0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0	0.92
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0	0.92
06192	Toluene	108-88-3	0.08	U	0.08	4.0	0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0	0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0	0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0	0.92
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0	0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0	0.92
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0	0.92
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0	0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0	0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0	0.92
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0	0.92
06192	m+p-Xylene	179601-23-1	0.42	J	0.17	4.0	0.92
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0	0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17	25.56
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-246-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-4.0-5.0

LLI Sample # SW 6220833
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:45

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9605 SDG#: DE096-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-246-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-4.0-5.0

LLI Sample # SW 6220833
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:45

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9605 SDG#: DE096-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
	The LCS recovery for various compounds are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,160		5.46	21.7	1
07914	Boron	7440-42-8	1.84	J	0.965	5.42	1
01650	Calcium	7440-70-2	4,460		6.65	21.7	1
01654	Iron	7439-89-6	16,500		5.11	21.7	1
01656	Lithium	7439-93-2	27.6		0.24	2.2	1
01657	Magnesium	7439-95-4	3,740		2.75	10.8	1
06958	Manganese	7439-96-5	259		0.0846	0.542	1
10145	Phosphorus	7723-14-0	309		0.607	10.8	1
01662	Potassium	7440-09-7	2,990		19.5	54.2	1
01667	Sodium	7440-23-5	92.4	J	40.5	108	1
07968	Strontium	7440-24-6	12.3		0.0672	0.542	1
06969	Tin	7440-31-5	2.80	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,010		0.412	1.08	1
10146	Zirconium	7440-67-7	0.911	U	0.911	5.42	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0632	U	0.0632	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.98		0.0842	0.421	2
06126	Barium	7440-39-3	76.8		0.114	0.421	2
06127	Beryllium	7440-41-7	0.387		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.0885	J	0.0421	0.105	2
06131	Chromium	7440-47-3	11.4		0.126	0.421	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-246-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-4.0-5.0

LLI Sample # SW 6220833
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
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Suite 210
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E9605 SDG#: DE096-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	4.22	0.0211	0.105	2
06133	Copper	7440-50-8	4.38	0.0695	0.421	2
06135	Lead	7439-92-1	3.26	0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.243	0.0527	0.105	2
06139	Nickel	7440-02-0	6.08	0.105	0.421	2
06141	Selenium	7782-49-2	0.0448 J	0.0421	0.421	2
06142	Silver	7440-22-4	0.0126 U	0.0126	0.105	2
06145	Thallium	7440-28-0	0.188	0.0316	0.105	2
06148	Vanadium	7440-62-2	26.0	0.0232	0.105	2
06149	Zinc	7440-66-6	65.8	0.590	3.16	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87 U	0.87	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.5	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	408	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.62	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-246-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-246-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-4.0-5.0

LLI Sample # SW 6220833
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Suite 210
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E9605 SDG#: DE096-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110621AA	03/03/2011 21:22	Laura M Krieger	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110631AA	03/04/2011 14:48	Jason M Long	25.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106223800	03/03/2011 14:28	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106223800	03/03/2011 14:30	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106223800	03/03/2011 14:30	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106223800	03/03/2011 14:28	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 08:32	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLE026	03/18/2011 16:42	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLE026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110710007A	03/15/2011 19:11	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110710007A	03/13/2011 08:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 20:55	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 15:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/17/2011 08:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:15	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-246-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-4.0-5.0

LLI Sample # SW 6220833
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:45

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9605 SDG#: DE096-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201A	03/17/2011 22:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11075075202A	03/16/2011 22:52	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11068243201A	03/11/2011 13:23	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201A	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11075075202A	03/16/2011 13:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182101B	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401B	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-246-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-9.0-10.0

LLI Sample # SW 6220834
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:20

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9606 SDG#: DE096-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-246-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-9.0-10.0

LLI Sample # SW 6220834
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:20

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9606 SDG#: DE096-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The LCS recovery for various compounds are outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-246-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-9.0-10.0

LLI Sample # SW 6220834
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:20

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9606 SDG#: DE096-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,600		5.41	21.5	1
07914	Boron	7440-42-8	3.79	J	0.958	5.38	1
01650	Calcium	7440-70-2	2,340		6.60	21.5	1
01654	Iron	7439-89-6	19,000		5.07	21.5	1
01656	Lithium	7439-93-2	22.1		0.24	2.2	1
01657	Magnesium	7439-95-4	3,700		2.73	10.8	1
06958	Manganese	7439-96-5	323		0.0840	0.538	1
10145	Phosphorus	7723-14-0	364		0.603	10.8	1
01662	Potassium	7440-09-7	3,010		19.4	53.8	1
01667	Sodium	7440-23-5	115		40.1	108	1
07968	Strontium	7440-24-6	24.7		0.0667	0.538	1
06969	Tin	7440-31-5	2.44	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,040		0.409	1.08	1
10146	Zirconium	7440-67-7	1.86	J	0.904	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0646	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.39		0.0861	0.431	2
06126	Barium	7440-39-3	158		0.116	0.431	2
06127	Beryllium	7440-41-7	0.719		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.238		0.0431	0.108	2
06131	Chromium	7440-47-3	18.3		0.129	0.431	2
06132	Cobalt	7440-48-4	6.48		0.0215	0.108	2
06133	Copper	7440-50-8	9.61		0.0710	0.431	2
06135	Lead	7439-92-1	5.69		0.0112	0.215	2
06138	Molybdenum	7439-98-7	0.690		0.0538	0.108	2
06139	Nickel	7440-02-0	12.3		0.108	0.431	2
06141	Selenium	7782-49-2	0.132	J	0.0431	0.431	2
06142	Silver	7440-22-4	0.0400	J	0.0129	0.108	2
06145	Thallium	7440-28-0	0.380		0.0323	0.108	2
06148	Vanadium	7440-62-2	36.4		0.0237	0.108	2
06149	Zinc	7440-66-6	71.5		0.603	3.23	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-246-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-9.0-10.0

LLI Sample # SW 6220834
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:20

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9606 SDG#: DE096-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	452	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.96	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 08:58	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLE026	03/18/2011 17:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLE026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110710007A	03/15/2011 19:34	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110710007A	03/13/2011 08:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-246-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-9.0-10.0

LLI Sample # SW 6220834
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:20

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9606 SDG#: DE096-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 20:59	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 15:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 15:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201A	03/17/2011 22:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11075075202A	03/16/2011 23:16	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11068243201A	03/11/2011 13:35	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201A	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11075075202A	03/16/2011 13:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182101B	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401B	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-247-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-4.0-5.0

LLI Sample # SW 6220835
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:45

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9607 SDG#: DE096-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	9.0	1
06192	Benzene	71-43-2	0.11	U	0.11	4.5	1
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5	1
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5	1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5	1
06192	Bromoform	75-25-2	0.45	U	0.45	4.5	1
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5	1
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0	1
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5	1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5	1
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5	1
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5	1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5	1
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5	1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5	1
06192	Chloroform	67-66-3	0.14	U	0.14	4.5	1
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5	1
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5	1
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5	1
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6	1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5	1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5	1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5	1
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5	1
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5	1
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5	1
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5	1
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5	1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5	1
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5	1
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5	1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5	1
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5	1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5	1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5	1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5	1
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5	1
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5	1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5	1
06192	Ethylbenzene	100-41-4	0.18	J	0.07	4.5	1
06192	Freon 113	76-13-1	0.12	U	0.12	4.5	1
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6	1
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5	1
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0	1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5	1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5	1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5	1
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0	1
06192	Methylene Chloride	75-09-2	0.40	J	0.27	4.5	1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-247-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-4.0-5.0

LLI Sample # SW 6220835
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:45

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9607 SDG#: DE096-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5	1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5	1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5	1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5	1
06192	Toluene	108-88-3	0.09	U	0.09	4.5	1
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5	1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5	1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5	1
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5	1
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5	1
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5	1
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5	1
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5	1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5	1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5	1
06192	m+p-Xylene	179601-23-1	0.53	J	0.19	4.5	1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14	21.11
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-247-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-4.0-5.0

LLI Sample # SW 6220835
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:45

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9607 SDG#: DE096-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-247-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-4.0-5.0

LLI Sample # SW 6220835
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:45

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9607 SDG#: DE096-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The LCS recovery for various compounds are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,700		5.67	22.5	1
07914	Boron	7440-42-8	4.10	J	1.00	5.64	1
01650	Calcium	7440-70-2	2,440		6.91	22.5	1
01654	Iron	7439-89-6	19,600		5.31	22.5	1
01656	Lithium	7439-93-2	23.3		0.25	2.3	1
01657	Magnesium	7439-95-4	3,690		2.86	11.3	1
06958	Manganese	7439-96-5	277		0.0879	0.564	1
10145	Phosphorus	7723-14-0	347		0.631	11.3	1
01662	Potassium	7440-09-7	2,570		20.3	56.4	1
01667	Sodium	7440-23-5	99.8	J	42.1	113	1
07968	Strontium	7440-24-6	25.5		0.0699	0.564	1
06969	Tin	7440-31-5	2.65	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,030		0.428	1.13	1
10146	Zirconium	7440-67-7	1.81	J	0.947	5.64	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0670	U	0.0670	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.19		0.0893	0.446	2
06126	Barium	7440-39-3	149		0.121	0.446	2
06127	Beryllium	7440-41-7	0.770		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.214		0.0446	0.112	2
06131	Chromium	7440-47-3	17.6		0.134	0.446	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-247-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-4.0-5.0

LLI Sample # SW 6220835
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:45

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9607 SDG#: DE096-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	6.25	0.0223	0.112	2
06133	Copper	7440-50-8	7.66	0.0737	0.446	2
06135	Lead	7439-92-1	5.69	0.0116	0.223	2
06138	Molybdenum	7439-98-7	0.491	0.0558	0.112	2
06139	Nickel	7440-02-0	12.7	0.112	0.446	2
06141	Selenium	7782-49-2	0.0749 J	0.0446	0.446	2
06142	Silver	7440-22-4	0.0515 J	0.0134	0.112	2
06145	Thallium	7440-28-0	0.336	0.0335	0.112	2
06148	Vanadium	7440-62-2	35.7	0.0246	0.112	2
06149	Zinc	7440-66-6	66.3	0.625	3.35	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	484	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.77	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-247-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-247-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-4.0-5.0

LLI Sample # SW 6220835
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:45

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9607 SDG#: DE096-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110621AA	03/03/2011 21:45	Laura M Krieger	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110622AA	03/04/2011 00:15	Sara E Johnson	21.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106223800	03/03/2011 14:15	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106223800	03/03/2011 14:30	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106223800	03/03/2011 14:30	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106223800	03/03/2011 14:16	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 09:22	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLE026	03/18/2011 17:48	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLE026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110710007A	03/15/2011 19:57	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110710007A	03/13/2011 08:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 21:03	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 15:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 15:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:22	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-247-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-4.0-5.0

LLI Sample # SW 6220835
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:45

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9607 SDG#: DE096-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201A	03/17/2011 22:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11075075202A	03/16/2011 23:40	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11068243201A	03/11/2011 13:54	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201A	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11075075202A	03/16/2011 13:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182101B	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401B	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-247-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-9.0-10.0

LLI Sample # SW 6220836
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:50

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9608 SDG#: DE096-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-247-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-9.0-10.0

LLI Sample # SW 6220836
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:50

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9608 SDG#: DE096-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	1.1	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	1.9		0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The LCS recovery for various compounds are outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-247-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-9.0-10.0

LLI Sample # SW 6220836
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:50

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9608 SDG#: DE096-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,900		5.39	21.4	1
07914	Boron	7440-42-8	3.85	J	0.954	5.36	1
01650	Calcium	7440-70-2	2,180		6.57	21.4	1
01654	Iron	7439-89-6	20,300		5.05	21.4	1
01656	Lithium	7439-93-2	21.9		0.24	2.1	1
01657	Magnesium	7439-95-4	4,020		2.72	10.7	1
06958	Manganese	7439-96-5	283		0.0836	0.536	1
10145	Phosphorus	7723-14-0	396		0.600	10.7	1
01662	Potassium	7440-09-7	3,310		19.3	53.6	1
01667	Sodium	7440-23-5	109		40.0	107	1
07968	Strontium	7440-24-6	23.4		0.0665	0.536	1
06969	Tin	7440-31-5	2.38	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,100		0.407	1.07	1
10146	Zirconium	7440-67-7	1.95	J	0.900	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0669	U	0.0669	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.29		0.0892	0.446	2
06126	Barium	7440-39-3	138		0.120	0.446	2
06127	Beryllium	7440-41-7	0.664		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.232		0.0446	0.111	2
06131	Chromium	7440-47-3	19.6		0.134	0.446	2
06132	Cobalt	7440-48-4	6.53		0.0223	0.111	2
06133	Copper	7440-50-8	11.1		0.0736	0.446	2
06135	Lead	7439-92-1	5.61		0.0116	0.223	2
06138	Molybdenum	7439-98-7	0.682		0.0557	0.111	2
06139	Nickel	7440-02-0	12.5		0.111	0.446	2
06141	Selenium	7782-49-2	0.120	J	0.0446	0.446	2
06142	Silver	7440-22-4	0.0445	J	0.0134	0.111	2
06145	Thallium	7440-28-0	0.288		0.0334	0.111	2
06148	Vanadium	7440-62-2	38.6		0.0245	0.111	2
06149	Zinc	7440-66-6	65.8		0.624	3.34	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-247-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-9.0-10.0

LLI Sample # SW 6220836
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:50

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9608 SDG#: DE096-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	344	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.16	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 09:47	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11069SLE026	03/18/2011 18:21	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11069SLE026	03/11/2011 10:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110710007A	03/15/2011 20:20	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110710007A	03/13/2011 08:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-247-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-9.0-10.0

LLI Sample # SW 6220836
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:50

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9608 SDG#: DE096-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 21:07	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 15:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 15:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201A	03/17/2011 23:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11075075202A	03/17/2011 00:04	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11068243201A	03/11/2011 14:00	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201A	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11075075202A	03/16/2011 13:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182101B	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401B	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-030211 Water
SSFL Area IV Collocated Soil Sampling
TB-030211

LLI Sample # WW 6220837
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 16:30

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9609 SDG#: DE096-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.6	J	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-030211 Water**
SSFL Area IV Collocated Soil Sampling
TB-030211

LLI Sample # WW 6220837
LLI Group # 1235576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 16:30

Submitted: 03/03/2011 09:15
Reported: 03/23/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9609 SDG#: DE096-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110631AA	03/04/2011 15:30	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110621AA	03/03/2011 14:39	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110621AA	03/03/2011 14:39	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110631AA	03/04/2011 15:30	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235576
Reported: 03/23/11 at 11:36 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110621AA	Sample number(s): 6220826-6220829,6220833,6220835									
Acetone	6.7	U	6.7	8.0	ug/kg	122		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	105		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	100		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	126*		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	89		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	81		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	113		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	107		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	110		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	100		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	102		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	82		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	104		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	103		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	96		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	58		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	102		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	92		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	96		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	98		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	89		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	104		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	94		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	99		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	115		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	102		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	102		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	111		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108		75-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235576
Reported: 03/23/11 at 11:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	104		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	107		61-134		
Methylene Chloride	1.1	J	0.24	4.0	ug/kg	114		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	108		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	95		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100		77-120		
Toluene	0.12	J	0.08	4.0	ug/kg	100		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	97		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	99		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	103		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	98		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	105		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	104		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	96		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
Batch number: E110621AA	Sample number(s): 6220837									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	118	107	80-123	10	30
Batch number: E110622AA	Sample number(s): 6220826-6220829,6220835									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	104	113	70-130	8	30
Batch number: E110631AA	Sample number(s): 6220833									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	103	70-130	1	30
Batch number: Y110631AA	Sample number(s): 6220837									
Acetone	6	U	6.	20	ug/l	96	92	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	96	96	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	98	101	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	98	97	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	96	93	80-120	3	30
Bromoform	1	U	1.	5	ug/l	75	76	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	91	90	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	107	105	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	98	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	99	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	96	95	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	98	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	86	85	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	115	117	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	102	99	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	85	85	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	101	102	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	101	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	64	62	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	86	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	86	87	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	98	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	100	100	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	96	97	80-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235576
Reported: 03/23/11 at 11:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	95	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	77	74	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	100	79-120	2	30
1,2-Dichloroethane	1	U	1.	5	ug/l	111	109	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	89	87	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	101	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	102	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	95	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	101	99	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	95	96	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	96	96	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	0	30
Freon 113	2	U	2.	10	ug/l	84	82	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	92	90	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	86	89	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	103	101	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	95	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	97	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	101	101	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	93	93	80-120	0	30
n-Propylbenzene	1	U	1.	5	ug/l	102	103	80-120	1	30
Styrene	1	U	1.	5	ug/l	90	89	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	95	92	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	99	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	90	91	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	94	94	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	86	88	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	91	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	86	85	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	98	98	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	97	97	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	91	88	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	104	103	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	101	101	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	99	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	85	83	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	91	92	80-120	0	30

Batch number: 11069SLC026 Sample number(s): 6220826-6220829,6220831-6220836

Acenaphthene	17	U	17.	170	ug/kg	94	76-111
Acenaphthylene	17	U	17.	170	ug/kg	98	75-122
Aniline	170 U		170.	500	ug/kg	74	34-94
Anthracene	17	U	17.	170	ug/kg	96	76-112
Benzidine	1,200 U		1,200.	3,300	ug/kg	37	15-121
Benzo(a)anthracene	17	U	17.	170	ug/kg	97	73-112
Benzo(a)pyrene	17	U	17.	170	ug/kg	118	69-122
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	121	61-127
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	113	65-122
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	123	67-125
Benzoic acid	170 U		170.	500	ug/kg	91	62-113
Benzyl alcohol	170		170.	500	ug/kg	94	68-111

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235576
Reported: 03/23/11 at 11:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	101		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	98		79-112		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	96		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	31		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	92		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	95		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	76		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	99		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	113		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	62		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	96		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	102		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	78		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	101		75-117		
Fluoranthene	17	U	17.	170	ug/kg	98		78-116		
Fluorene	17	U	17.	170	ug/kg	97		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	88		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	89		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	113		64-119		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	94		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	87		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	95		66-117		
Naphthalene	17	U	17.	170	ug/kg	90		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	88		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	93		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	78		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235576
Reported: 03/23/11 at 11:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-octylphthalate	17	U	17.	170	ug/kg	129		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	90		51-117		
Phenanthrene	17	U	17.	170	ug/kg	96		77-113		
Phenol	17	U	17.	170	ug/kg	97		58-112		
Pyrene	17	U	17.	170	ug/kg	102		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	94		78-111		
Batch number: 11069SLE026	Sample number(s): 6220826-6220829,6220831-6220836									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	93		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	92		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	95		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	101		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	100		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	104		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	108		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	106		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	104		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	105		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	97		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	103		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	127		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	101		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	104		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	82		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	124		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	96		56-121		
Batch number: 110710012A	Sample number(s): 6220832									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		85-115		
Batch number: 110710007A	Sample number(s): 6220826-6220829,6220831-6220836									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	134*	92	36-106	37*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	51*		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	60*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110691026001A	Sample number(s): 6220826-6220836									
Antimony	0.0600	U	0.0600	0.200	mg/kg	65		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	102		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	104		82-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235576
Reported: 03/23/11 at 11:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cadmium	0.0400	U	0.0400	0.100	mg/kg	98		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	102		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	104		82-118		
Copper	0.169	J	0.0660	0.400	mg/kg	101		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	98		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	104		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	102		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	104		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	98		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	99		78-122		
Batch number: 110691026001B	Sample number(s): 6220826-6220836									
Selenium	0.0400	U	0.0400	0.400	mg/kg	100		79-122		
Batch number: 110691026001C	Sample number(s): 6220826-6220836									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	102		78-122		
Batch number: 110691026001D	Sample number(s): 6220826-6220836									
Barium	0.108	U	0.108	0.400	mg/kg	102		79-121		
Batch number: 110695708002	Sample number(s): 6220826-6220836									
Aluminum	6.34	J	4.84	19.2	mg/kg	93		61-110		
Boron	0.856	U	0.856	4.81	mg/kg	95		78-110		
Calcium	10.2	J	5.89	19.2	mg/kg	95		88-110		
Iron	5.30	J	4.53	19.2	mg/kg	84		61-110		
Lithium	0.21	U	0.21	1.9	mg/kg	100		80-120		
Magnesium	2.85	J	2.44	9.62	mg/kg	95		82-110		
Manganese	0.0750	U	0.0750	0.481	mg/kg	102		81-119		
Phosphorus	1.24	J	0.538	9.62	mg/kg	102		80-120		
Potassium	17.3	U	17.3	48.1	mg/kg	95		78-110		
Sodium	35.9	U	35.9	96.2	mg/kg	92		87-110		
Strontium	0.0596	U	0.0596	0.481	mg/kg	97		79-121		
Tin	1.30	J	0.962	9.62	mg/kg	94		90-114		
Titanium	0.365	U	0.365	0.962	mg/kg	84		80-120		
Zirconium	0.808	U	0.808	4.81	mg/kg	100		80-120		
Batch number: 110695711001	Sample number(s): 6220826-6220836									
Mercury	0.0028	U	0.0028	0.0968	mg/kg	99		88-123		
Batch number: 11068243201A	Sample number(s): 6220826-6220828,6220830-6220836									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 11075075201A	Sample number(s): 6220826-6220828,6220830-6220836									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
Batch number: 11075075202A	Sample number(s): 6220826-6220828,6220830-6220836									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11067039401B	Sample number(s): 6220826-6220827,6220830-6220836									
18a pH by 9045C						100		95-105		
Batch number: 11067182101B	Sample number(s): 6220826-6220827,6220830-6220836									
32a OR Potential						100		98-102		
Batch number: 11070162401B	Sample number(s): 6220826-6220836									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235576
Reported: 03/23/11 at 11:36 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110621AA	Sample number(s): 6220826-6220829,6220833,6220835 UNSPK: 6220827								
Acetone	105	114	15-210	7	30				
Benzene	100	103	55-143	2	30				
Bromobenzene	94	94	43-139	1	30				
Bromochloromethane	120	119	60-137	2	30				
Bromodichloromethane	92	95	53-136	2	30				
Bromoform	77	80	38-124	3	30				
Bromomethane	64	73	42-168	11	30				
2-Butanone	96	98	37-163	0	30				
n-Butylbenzene	92	91	30-146	3	30				
sec-Butylbenzene	98	97	33-157	3	30				
tert-Butylbenzene	92	92	41-152	2	30				
Carbon Tetrachloride	97	101	45-153	3	30				
Chlorobenzene	91	93	49-135	0	30				
Chloroethane	64	75	39-152	14	30				
2-Chloroethyl Vinyl Ether	92	88	32-139	6	30				
Chloroform	100	102	61-142	0	30				
Chloromethane	89	89	51-163	2	30				
2-Chlorotoluene	94	93	42-146	2	30				
4-Chlorotoluene	92	91	39-145	2	30				
Chlorotrifluoroethene	56*	58*	70-130	1	30				
1,2-Dibromo-3-chloropropane	78	79	30-139	0	30				
Dibromochloromethane	83	86	51-128	2	30				
1,2-Dibromoethane	90	93	54-129	1	30				
Dibromomethane	95	98	57-130	2	30				
1,2-Dichlorobenzene	87	86	36-133	3	30				
1,3-Dichlorobenzene	89	89	34-134	1	30				
1,4-Dichlorobenzene	89	89	35-136	1	30				
Dichlorodifluoromethane	80	77	26-151	5	30				
1,1-Dichloroethane	100	103	63-142	2	30				
1,2-Dichloroethane	99	101	68-131	0	30				
1,1-Dichloroethene	109	112	61-149	1	30				
cis-1,2-Dichloroethene	100	103	60-136	1	30				
trans-1,2-Dichloroethene	102	105	59-142	1	30				
1,2-Dichloropropane	97	101	62-135	2	30				
1,3-Dichloropropane	93	95	58-129	0	30				
2,2-Dichloropropane	99	103	53-147	3	30				
1,1-Dichloropropene	103	105	54-145	1	30				
cis-1,3-Dichloropropene	90	94	51-131	2	30				
trans-1,3-Dichloropropene	85	87	49-129	1	30				
Ethylbenzene	92	95	44-141	2	30				
Freon 113	115	117	56-156	0	30				
Freon 133a	99	105	61-131	2	30				
Hexachlorobutadiene	86	81	10-155	8	30				
2-Hexanone	92	97	32-160	3	30				
Isopropylbenzene	89	91	38-144	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235576
Reported: 03/23/11 at 11:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p-Isopropyltoluene	95	94	29-152	3	30				
Methyl Tertiary Butyl Ether	94	97	55-129	1	30				
4-Methyl-2-pentanone	89	92	46-139	2	30				
Methylene Chloride	103	104	61-141	1	30				
n-Propylbenzene	101	102	39-157	1	30				
Styrene	88	90	35-134	1	30				
1,1,1,2-Tetrachloroethane	86	89	52-130	1	30				
1,1,2,2-Tetrachloroethane	91	90	40-152	3	30				
Tetrachloroethene	90	94	42-149	2	30				
Toluene	94	97	50-146	2	30				
1,2,3-Trichlorobenzene	79	77	10-140	3	30				
1,2,4-Trichlorobenzene	80	78	10-136	4	30				
1,1,1-Trichloroethane	98	103	64-142	4	30				
1,1,2-Trichloroethane	92	93	54-139	0	30				
Trichloroethene	97	100	53-144	2	30				
Trichlorofluoromethane	96	96	47-163	1	30				
1,2,3-Trichloropropane	93	92	45-154	3	30				
1,2,4-Trimethylbenzene	94	93	37-149	3	30				
1,3,5-Trimethylbenzene	93	93	38-150	2	30				
Vinyl Chloride	92	91	50-154	2	30				
m+p-Xylene	90	93	44-137	2	30				
o-Xylene	88	90	42-137	1	30				
Batch number: E110622AA	Sample number(s): 6220826-6220829,6220835 UNSPK: 6220827								
1,4-Dioxane	111	124	70-130	13	30				
Batch number: 11069SLC026	Sample number(s): 6220826-6220829,6220831-6220836 UNSPK: 6220827								
Acenaphthene	71*	90	75-115	23	30				
Acenaphthylene	74*	95	81-110	25	30				
Aniline	46	63	35-95	31*	30				
Anthracene	73*	91	75-115	22	30				
Benzidine	18*	24*	35-141	30	30				
Benzo(a)anthracene	71	89	65-122	23	30				
Benzo(a)pyrene	90	113	57-126	22	30				
Benzo(b)fluoranthene	96	118	59-125	20	30				
Benzo(g,h,i)perylene	83	106	59-127	24	30				
Benzo(k)fluoranthene	87	112	56-132	25	30				
Benzoic acid	54	70	10-173	25	30				
Benzyl alcohol	72	93	67-115	26	30				
4-Bromophenyl-phenylether	70	88	67-129	23	30				
Butylbenzylphthalate	75	95	73-134	23	30				
Di-n-butylphthalate	73	91	67-123	21	30				
Carbazole	72	90	64-120	22	30				
4-Chloro-3-methylphenol	72*	93	76-110	25	30				
4-Chloroaniline	37	47	23-95	23	30				
bis(2-Chloroethoxy)methane	74*	91	75-104	20	30				
bis(2-Chloroethyl)ether	69	88	60-116	24	30				
bis(2-Chloroisopropyl)ether	71	89	55-142	22	30				
2-Chloronaphthalene	59	75	50-141	24	30				
2-Chlorophenol	72*	94	73-121	26	30				
4-Chlorophenyl-phenylether	74*	93	80-109	22	30				
Chrysene	75	95	62-128	23	30				
Dibenz(a,h)anthracene	84	106	65-125	23	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235576
Reported: 03/23/11 at 11:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibenzofuran	73	93	71-112	23	30				
1,2-Dichlorobenzene	67	83	66-108	21	30				
1,3-Dichlorobenzene	64	80	63-109	21	30				
1,4-Dichlorobenzene	65*	80	70-100	20	30				
3,3'-Dichlorobenzidine	27	41	16-119	42*	30				
2,4-Dichlorophenol	73*	95	78-117	26	30				
Diethylphthalate	73	90	66-118	20	30				
2,4-Dimethylphenol	70*	91	78-110	25	30				
3,5-Dimethylphenol	78	100	70-130	25	30				
Dimethylphthalate	72	91	64-118	22	30				
4,6-Dinitro-2-methylphenol	61	74	24-116	19	30				
2,4-Dinitrophenol	52	62	20-143	19	30				
2,4-Dinitrotoluene	72*	92	73-113	24	30				
2,6-Dinitrotoluene	71	92	69-123	25	30				
1,2-Diphenylhydrazine	76	95	71-129	22	30				
bis(2-Ethylhexyl)phthalate	73	95	63-122	25	30				
Fluoranthene	74	93	73-112	22	30				
Fluorene	72*	93	77-111	25	30				
Hexachlorobenzene	74*	92	77-114	21	30				
Hexachlorobutadiene	66	84	62-120	25	30				
Hexachlorocyclopentadiene	61	78	10-153	24	30				
Hexachloroethane	63	80	57-109	24	30				
Indeno(1,2,3-cd)pyrene	83	106	61-126	24	30				
Isophorone	69*	89	73-102	24	30				
1-Methylnaphthalene	72*	92	73-112	24	30				
2-Methylnaphthalene	66*	86	76-114	25	30				
2-Methylphenol	72*	93	75-111	25	30				
4-Methylphenol	71	91	71-111	25	30				
Naphthalene	69*	87	72-116	23	30				
2-Nitroaniline	71	90	67-125	23	30				
3-Nitroaniline	68	85	59-122	22	30				
4-Nitroaniline	56	72	52-112	26	30				
Nitrobenzene	68*	89	72-106	26	30				
2-Nitrophenol	66*	87	74-115	27	30				
4-Nitrophenol	70	90	54-113	25	30				
N-Nitroso-di-n-propylamine	68	89	60-116	27	30				
N-Nitrosodimethylamine	63	79	47-116	22	30				
N-Nitrosodiphenylamine	73*	93	86-145	23	30				
Di-n-octylphthalate	97	127*	56-126	26	30				
Pentachlorophenol	62	79	28-127	24	30				
Phenanthrene	73	90	65-125	21	30				
Phenol	72	94	58-126	26	30				
Pyrene	77	98	74-126	23	30				
1,2,4-Trichlorobenzene	69*	87	72-115	22	30				
2,4,5-Trichlorophenol	74*	92	78-109	22	30				
2,4,6-Trichlorophenol	70*	90	77-115	24	30				
Batch number: 11069SLE026	Sample number(s): 6220826-6220829,6220831-6220836 UNSPK: 6220827								
Acenaphthene	88	92	63-105	5	30				
Acenaphthylene	91	95	67-114	5	30				
Anthracene	92	97	60-122	6	30				
Benzo(a)anthracene	94	98	59-128	6	30				
Benzo(a)pyrene	93	96	45-138	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235576
Reported: 03/23/11 at 11:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(b)fluoranthene	112	115	43-155	3	30				
Benzo(g,h,i)perylene	48	56	33-141	17	30				
Benzo(k)fluoranthene	111	112	42-144	2	30				
Butylbenzylphthalate	111	118	57-173	6	30				
Di-n-butylphthalate	103	106	65-148	4	30				
Chrysene	93	97	48-134	5	30				
Dibenz(a,h)anthracene	57	64	22-133	12	30				
Diethylphthalate	90	91	70-136	1	30				
Dimethylphthalate	100	107	74-118	8	30				
Bis(2-Ethylhexyl)phthalate	123	124	39-167	2	30				
Fluoranthene	100	106	26-166	7	30				
Fluorene	94	98	66-122	5	30				
Indeno(1,2,3-cd)pyrene	55	62	21-143	13	30				
1-Methylnaphthalene	87	90	72-123	5	30				
2-Methylnaphthalene	78	81	64-103	5	30				
Naphthalene	87	89	61-102	3	30				
N-Nitrosodimethylamine	86	89	48-113	4	30				
Di-n-octylphthalate	133	130	40-192	1	30				
Phenanthrene	90	94	12-165	6	30				
Pyrene	89	93	15-153	6	30				
Batch number: 110710012A	Sample number(s): 6220832 UNSPK: P218897								
6a Perchlorate EPA 6850	105	105	80-120	0	20				
Batch number: 110710007A	Sample number(s): 6220826-6220829,6220831-6220836 UNSPK: 6220827								
PCB-1016	88	81	29-146	8	50				
PCB-1260	94	93	39-149	1	50				
Batch number: 110691026001A	Sample number(s): 6220826-6220836 UNSPK: 6220827 BKG: 6220827								
Antimony	44*	42*	75-125	2	20	0.0734 J	0.0583 U	200* (1)	20
Arsenic	85	100	75-125	6	20	3.48	3.06	13	20
Beryllium	106	99	75-125	4	20	0.420	0.381	10 (1)	20
Cadmium	115	104	75-125	9	20	0.0467 J	0.0388 U	200* (1)	20
Chromium	89	85	75-125	1	20	10.1	8.93	12	20
Cobalt	96	93	75-125	2	20	3.63	3.47	5	20
Copper	91	90	75-125	0	20	3.89	4.34	11	20
Lead	104	89	75-125	6	20	3.63	3.80	5	20
Nickel	94	97	75-125	3	20	5.64	5.52	2	20
Silver	115	105	75-125	8	20	0.0131 J	0.0204 J	43* (1)	20
Thallium	104	96	75-125	4	20	0.255	0.237	7 (1)	20
Vanadium	72*	79	75-125	2	20	23.0	21.6	6	20
Zinc	44 (2)	18 (2)	75-125	4	20	54.8	49.2	11	20
Batch number: 110691026001B	Sample number(s): 6220826-6220836 UNSPK: 6220827 BKG: 6220827								
Selenium	102	95	75-125	6	20	0.105 J	0.0942 J	11 (1)	20
Batch number: 110691026001C	Sample number(s): 6220826-6220836 UNSPK: 6220827 BKG: 6220827								
Molybdenum	107	100	75-125	6	20	0.316	0.294	7 (1)	20
Batch number: 110691026001D	Sample number(s): 6220826-6220836 UNSPK: 6220827 BKG: 6220827								
Barium	70 (2)	77 (2)	75-125	1	20	65.1	61.2	6	20
Batch number: 110695708002	Sample number(s): 6220826-6220836 UNSPK: 6220827 BKG: 6220827								

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Quality Control Summary

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Reported: 03/23/11 at 11:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Aluminum	1083 (2)	1307 (2)	75-125	3	20	10,200	9,170	11	20
Boron	98	97	84-115	1	20	2.03 J	2.01 J	1 (1)	20
Calcium	752 (2)	74 (2)	75-125	72*	20	1,990	1,690	16	20
Iron	-300 (2)	-82 (2)	75-125	1	20	15,400	14,200	8	20
Lithium	101	99	82-114	2	20	21.3	19.7	7	20
Magnesium	207 (2)	118 (2)	75-125	5	20	3,130	2,920	7	20
Manganese	45 (2)	41 (2)	75-125	1	20	207	209	1	20
Phosphorus	118	41*	75-125	20	20	289	243	18	20
Potassium	130*	108	75-125	6	20	2,340	2,330	0	20
Sodium	94	95	75-125	0	20	91.6 J	82.9 J	10 (1)	20
Strontium	100	99	75-115	2	20	10.5	9.04	15	20
Tin	88	87	80-110	1	20	2.51 J	2.33 J	8 (1)	20
Titanium	228 (2)	162 (2)	75-125	6	20	887	858	3	20
Zirconium	99	98	75-125	2	20	0.824 U	0.938 J	200* (1)	20
Batch number: 110695711001	Sample number(s): 6220826-6220836 UNSPK: 6220827 BKG: 6220827								
Mercury	97	96	65-135	2	20	0.0027 U	0.0027 U	0 (1)	20
Batch number: 11068243201A	Sample number(s): 6220826-6220828,6220830-6220836 UNSPK: 6220827 BKG: 6220827								
3a Cr VI by EPA 7199	91		75-125			0.20 U	0.34 J	200* (1)	20
Batch number: 11075075201A	Sample number(s): 6220826-6220828,6220830-6220836 UNSPK: 6220827 BKG: 6220827								
11a Anions by 300.0 - Fluoride	87		80-120			1.9	1.8	4 (1)	20
Batch number: 11075075202A	Sample number(s): 6220826-6220828,6220830-6220836 UNSPK: 6220827 BKG: 6220827								
7a Perchlorate EPA 314.0	110		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11067039401B	Sample number(s): 6220826-6220827,6220830-6220836 BKG: 6220827								
18a pH by 9045C						7.99	7.99	0	1
Batch number: 11067182101B	Sample number(s): 6220826-6220827,6220830-6220836 BKG: 6220827								
32a OR Potential						429	430	0	6
Batch number: 11070162401B	Sample number(s): 6220826-6220836 BKG: 6220827								
28a Moisture Content by 160.3						8.2	9.0	10	20
Moisture Content by 160.3						8.2	9.0	10	20
Moisture Content by 160.3						8.2	9.0	10	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110621AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6220826	98	99	98	97

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Quality Control Summary

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Surrogate Quality Control

6220827	98	96	98	96
6220828	100	102	100	99
6220829	100	103	100	107
6220833	100	100	98	97
6220835	100	99	96	97
Blank	102	105	99	97
LCS	103	106	100	100
MS	100	102	100	99
MSD	100	103	100	107
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110621AA

	Toluene-d8
6220837	97
Blank	97
LCS	98
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110622AA

	Toluene-d8
6220826	96
6220827	96
6220828	97
6220829	95
6220835	95
Blank	95
LCS	96
LCSD	96
MS	97
MSD	95
Limits:	70-130

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110631AA

	Toluene-d8
6220833	96
Blank	97
LCS	97
LCSD	96
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110631AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6220837	103	98	104	100
Blank	102	97	104	100

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235576
Reported: 03/23/11 at 11:36 AM

Surrogate Quality Control

LCS	104	100	105	100
LCSD	104	101	104	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11069SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6220826	91	94	94	85	90	85
6220827	93	96	102	88	95	93
6220828	74	74	74	67	71	68
6220829	96	97	96	87	91	88
6220831	92	93	92	83	91	91
6220832	92	94	93	85	91	89
6220833	94	97	92	86	91	90
6220834	92	94	90	84	89	91
6220835	94	94	80	85	91	90
6220836	85	85	84	78	86	87
Blank	82	83	84	77	82	81
LCS	98	98	100	88	94	90
MS	74	74	74	67	71	68
MSD	96	97	96	87	91	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11069SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6220826	92	85	92
6220827	85	78	92
6220828	106	86	90
6220829	101	91	95
6220831	101	91	96
6220832	97	87	94
6220833	97	88	96
6220834	96	88	97
6220835	99	90	100
6220836	108	95	102
Blank	110	102	116
LCS	102	91	97
MS	106	86	90
MSD	101	91	95
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110710007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6220826	75	78
6220827	93	99
6220828	91	96
6220829	83	95
6220831	91	100
6220832	60	68

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235576
Reported: 03/23/11 at 11:36 AM

Surrogate Quality Control

6220833	89	98
6220834	86	102
6220835	84	95
6220836	79	92
Blank	88	105
LCS	50*	60
LCSD	82	93
MS	91	96
MSD	83	95
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1235576 sample# 6220826-37

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
DUP08-SA5A-QC-030211	3.02.11	0908	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
DUP08-SA5A-QC-030211	3.02.11	0903	SOIL	NONE	4-Encores									X	X		
SL-245-SA5A-SB-4.0-5.0MS	3.02.11	0852	SOIL	NONE	6-16 oz jars	X	X	X	X	X	X	X					MS/MSD Sample
SL-245-SA5A-SB-4.5MS	3.02.11	0848	SOIL	NONE	12-Encores									X	X		MS/MSD Sample
SL-245-SA5A-SB-9.0-10.0	3.02.11	0912	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-245-SA5A-SB-29.0-30.0	3.02.11	0922	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X				
SL-246-SA5A-SB-4.0-5.0	3.02.11	1145	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-246-SA5A-SB-4.5	3.02.11	1140	SOIL	NONE	4-Encores									X	X		
SL-246-SA5A-SB-9.0-10.0	3.02.11	1220	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-247-SA5A-SB-4.0-5.0	3.02.11	1545	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-247-SA5A-SB-4.5	3.02.11	1540	SOIL	NONE	4-Encores									X	X		
SL-247-SA5A-SB-9.0-10.0	3.02.11	1550	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
TB-0302111	3.02.11	1630	WATER	HCl	3-40 mL VOA VIALS									X	X		TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 03/02/2011 / 17:00		Received for Laboratory by: (*Signature*) 3/3/11 915														Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8700 5935 3881; 8700 5935 3907 8700 5935 3940														SUB-SURFACE

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 29, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/03/2011
Group Number: 1235580
SDG: DX061
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP08-SA5A-QC-030211 Soil	6220847
SL-245-SA5A-SB-4.0-5.0 Soil	6220848
SL-245-SA5A-SB-4.0-5.0MS Soil	6220849
SL-245-SA5A-SB-4.0-5.0MSD Soil	6220850
SL-245-SA5A-SB-9.0-10.0 Soil	6220851
SL-245-SA5A-SB-29.0-30.0 Soil	6220852
SL-246-SA5A-SB-4.0-5.0 Soil	6220853
SL-246-SA5A-SB-9.0-10.0 Soil	6220854
SL-247-SA5A-SB-4.0-5.0 Soil	6220855
SL-247-SA5A-SB-9.0-10.0 Soil	6220856

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP08-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5A-QC-030211

LLI Sample # SW 6220847
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:08

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6101 SDG#: DX061-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP08-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5A-QC-030211

LLI Sample # SW 6220847
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:08

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6101 SDG#: DX061-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0104 U	0.0104	1.10	1
11031	12378-PeCDD	40321-76-4	0.0154 JBQ	0.0120	5.51	1
11031	123478-HxCDD	39227-28-6	0.0111 U	0.0111	5.51	1
11031	123678-HxCDD	57653-85-7	0.0223 JQ	0.0111	5.51	1
11031	123789-HxCDD	19408-74-3	0.0562 JB	0.0108	5.51	1
11031	1234678-HpCDD	35822-46-9	0.307 JB	0.0189	5.51	1
11031	OCDD	3268-87-9	2.53 JB	0.0187	11.0	1
11031	2378-TCDF	51207-31-9	0.0106 U	0.0106	1.10	1
11031	12378-PeCDF	57117-41-6	0.0196 JB	0.00628	5.51	1
11031	23478-PeCDF	57117-31-4	0.0720 JB	0.00650	5.51	1
11031	123478-HxCDF	70648-26-9	0.0316 JBQ	0.0101	5.51	1
11031	123678-HxCDF	57117-44-9	0.0282 JB	0.00728	5.51	1
11031	123789-HxCDF	72918-21-9	0.0552 JQ	0.00761	5.51	1
11031	234678-HxCDF	60851-34-5	0.0601 JB	0.00639	5.51	1
11031	1234678-HpCDF	67562-39-4	0.130 JB	0.00750	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0407 JBQ	0.0112	5.51	1
11031	OCDF	39001-02-0	0.188 JB	0.0191	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP08-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5A-QC-030211

LLI Sample # SW 6220847
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:08

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6101 SDG#: DX061-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP08-SA5A-QC-030211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5A-QC-030211

LLI Sample # SW 6220847
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:08

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6101 SDG#: DX061-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/21/2011 17:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-245-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220848
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6102 SDG#: DX061-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220848
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6102 SDG#: DX061-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0107	U	0.0107	1.09	1
11031	12378-PeCDD	40321-76-4	0.0121	U	0.0121	5.45	1
11031	123478-HxCDD	39227-28-6	0.0117	U	0.0117	5.45	1
11031	123678-HxCDD	57653-85-7	0.0295	J	0.0111	5.45	1
11031	123789-HxCDD	19408-74-3	0.0416	JB	0.0102	5.45	1
11031	1234678-HpCDD	35822-46-9	0.422	JB	0.0230	5.45	1
11031	OCDD	3268-87-9	4.87	JB	0.0195	10.9	1
11031	2378-TCDF	51207-31-9	0.0255	JQ	0.00937	1.09	1
11031	12378-PeCDF	57117-41-6	0.0167	JBQ	0.00632	5.45	1
11031	23478-PeCDF	57117-31-4	0.0891	JB	0.00664	5.45	1
11031	123478-HxCDF	70648-26-9	0.151	JB	0.0336	5.45	1
11031	123678-HxCDF	57117-44-9	0.0852	JBQ	0.0186	5.45	1
11031	123789-HxCDF	72918-21-9	0.0594	J	0.0146	5.45	1
11031	234678-HxCDF	60851-34-5	0.131	JB	0.0112	5.45	1
11031	1234678-HpCDF	67562-39-4	0.576	JB	0.0153	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0522	JB	0.0162	5.45	1
11031	OCDF	39001-02-0	0.388	JBQ	0.0242	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-245-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220848
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6102 SDG#: DX061-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-245-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220848
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6102 SDG#: DX061-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/21/2011 18:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-245-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220849
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6102 SDG#: DX061-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220849
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6102 SDG#: DX061-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.3		0.0289	1.09	1
11031	12378-PeCDD	40321-76-4	119	B	0.0381	5.45	1
11031	123478-HxCDD	39227-28-6	117		0.0447	5.45	1
11031	123678-HxCDD	57653-85-7	119		0.0459	5.45	1
11031	123789-HxCDD	19408-74-3	116	B	0.0458	5.45	1
11031	1234678-HpCDD	35822-46-9	115	B	0.0492	5.45	1
11031	OCDD	3268-87-9	233	B	0.0562	10.9	1
11031	2378-TCDF	51207-31-9	24.8		0.0371	1.09	1
11031	12378-PeCDF	57117-41-6	116	B	0.0249	5.45	1
11031	23478-PeCDF	57117-31-4	115	B	0.0254	5.45	1
11031	123478-HxCDF	70648-26-9	114	B	0.0666	5.45	1
11031	123678-HxCDF	57117-44-9	114	B	0.0531	5.45	1
11031	123789-HxCDF	72918-21-9	113		0.0708	5.45	1
11031	234678-HxCDF	60851-34-5	116	B	0.0554	5.45	1
11031	1234678-HpCDF	67562-39-4	113	B	0.0434	5.45	1
11031	1234789-HpCDF	55673-89-7	115	B	0.0692	5.45	1
11031	OCDF	39001-02-0	226	B	0.0757	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-245-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220849
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6102 SDG#: DX061-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-245-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220849
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6102 SDG#: DX061-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/21/2011 19:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-245-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220850
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6102 SDG#: DX061-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220850
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6102 SDG#: DX061-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.9		0.0249	1.09	1
11031	12378-PeCDD	40321-76-4	122	B	0.0322	5.45	1
11031	123478-HxCDD	39227-28-6	120		0.0296	5.45	1
11031	123678-HxCDD	57653-85-7	120		0.0297	5.45	1
11031	123789-HxCDD	19408-74-3	117	B	0.0285	5.45	1
11031	1234678-HpCDD	35822-46-9	117	B	0.0386	5.45	1
11031	OCDD	3268-87-9	235	B	0.0488	10.9	1
11031	2378-TCDF	51207-31-9	25.6		0.0319	1.09	1
11031	12378-PeCDF	57117-41-6	116	B	0.0195	5.45	1
11031	23478-PeCDF	57117-31-4	117	B	0.0202	5.45	1
11031	123478-HxCDF	70648-26-9	115	B	0.0572	5.45	1
11031	123678-HxCDF	57117-44-9	114	B	0.0476	5.45	1
11031	123789-HxCDF	72918-21-9	114		0.0601	5.45	1
11031	234678-HxCDF	60851-34-5	115	B	0.0484	5.45	1
11031	1234678-HpCDF	67562-39-4	114	B	0.0279	5.45	1
11031	1234789-HpCDF	55673-89-7	116	B	0.0503	5.45	1
11031	OCDF	39001-02-0	227	B	0.0452	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-245-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220850
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6102 SDG#: DX061-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-245-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-4.0-5.0

LLI Sample # SW 6220850
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 08:52

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6102 SDG#: DX061-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/21/2011 20:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-245-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-9.0-10.0

LLI Sample # SW 6220851
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:12

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6103 SDG#: DX061-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-245-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-9.0-10.0

LLI Sample # SW 6220851
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:12

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6103 SDG#: DX061-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0162 JQ	0.0141	1.10	1
11031	12378-PeCDD	40321-76-4	0.0232 JBQ	0.0137	5.52	1
11031	123478-HxCDD	39227-28-6	0.0212 U	0.0212	5.52	1
11031	123678-HxCDD	57653-85-7	0.0939 J	0.0221	5.52	1
11031	123789-HxCDD	19408-74-3	0.0949 JBQ	0.0212	5.52	1
11031	1234678-HpCDD	35822-46-9	1.44 JB	0.0504	5.52	1
11031	OCDD	3268-87-9	24.4 B	0.0302	11.0	1
11031	2378-TCDF	51207-31-9	0.0129 U	0.0129	1.10	1
11031	12378-PeCDF	57117-41-6	0.0384 JBQ	0.00663	5.52	1
11031	23478-PeCDF	57117-31-4	0.0810 JB	0.00707	5.52	1
11031	123478-HxCDF	70648-26-9	0.0598 JBQ	0.0169	5.52	1
11031	123678-HxCDF	57117-44-9	0.0481 JB	0.0136	5.52	1
11031	123789-HxCDF	72918-21-9	0.0960 JQ	0.0167	5.52	1
11031	234678-HxCDF	60851-34-5	0.0849 JBQ	0.0131	5.52	1
11031	1234678-HpCDF	67562-39-4	0.312 JBQ	0.0193	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0789 JBQ	0.0286	5.52	1
11031	OCDF	39001-02-0	0.487 JBQ	0.0315	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-245-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-9.0-10.0

LLI Sample # SW 6220851
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:12

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6103 SDG#: DX061-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-245-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-9.0-10.0

LLI Sample # SW 6220851
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:12

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6103 SDG#: DX061-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/22/2011 00:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-245-SA5A-SB-29.0-30.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-29.0-30.0

LLI Sample # SW 6220852
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:22

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6104 SDG#: DX061-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-245-SA5A-SB-29.0-30.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-29.0-30.0

LLI Sample # SW 6220852
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:22

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6104 SDG#: DX061-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0126 U	0.0126	1.14	1
11031	12378-PeCDD	40321-76-4	0.0143 JBQ	0.0119	5.68	1
11031	123478-HxCDD	39227-28-6	0.0166 U	0.0166	5.68	1
11031	123678-HxCDD	57653-85-7	0.0166 U	0.0166	5.68	1
11031	123789-HxCDD	19408-74-3	0.0251 JBQ	0.0153	5.68	1
11031	1234678-HpCDD	35822-46-9	0.388 JB	0.0263	5.68	1
11031	OCDD	3268-87-9	1.20 JB	0.0275	11.4	1
11031	2378-TCDF	51207-31-9	0.0177 JQ	0.0104	1.14	1
11031	12378-PeCDF	57117-41-6	0.0219 JBQ	0.00579	5.68	1
11031	23478-PeCDF	57117-31-4	0.0910 JB	0.00647	5.68	1
11031	123478-HxCDF	70648-26-9	0.105 JB	0.0227	5.68	1
11031	123678-HxCDF	57117-44-9	0.0586 JBQ	0.0152	5.68	1
11031	123789-HxCDF	72918-21-9	0.0769 J	0.0176	5.68	1
11031	234678-HxCDF	60851-34-5	0.159 JB	0.0137	5.68	1
11031	1234678-HpCDF	67562-39-4	0.439 JB	0.0146	5.68	1
11031	1234789-HpCDF	55673-89-7	0.0842 JBQ	0.0225	5.68	1
11031	OCDF	39001-02-0	0.424 JB	0.0303	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-245-SA5A-SB-29.0-30.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-29.0-30.0

LLI Sample # SW 6220852
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:22

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6104 SDG#: DX061-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-245-SA5A-SB-29.0-30.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-245-SA5A-SB-29.0-30.0

LLI Sample # SW 6220852
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 09:22

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6104 SDG#: DX061-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/22/2011 01:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-246-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-4.0-5.0

LLI Sample # SW 6220853
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:45

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6105 SDG#: DX061-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-246-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-4.0-5.0

LLI Sample # SW 6220853
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:45

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6105 SDG#: DX061-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0114	U	0.0114	1.08	1
11031	12378-PeCDD	40321-76-4	0.0116	U	0.0116	5.42	1
11031	123478-HxCDD	39227-28-6	0.0112	U	0.0112	5.42	1
11031	123678-HxCDD	57653-85-7	0.0231	JQ	0.0113	5.42	1
11031	123789-HxCDD	19408-74-3	0.0202	JB	0.0107	5.42	1
11031	1234678-HpCDD	35822-46-9	0.151	JB	0.0195	5.42	1
11031	OCDD	3268-87-9	0.471	JB	0.0203	10.8	1
11031	2378-TCDF	51207-31-9	0.0123	JQ	0.00889	1.08	1
11031	12378-PeCDF	57117-41-6	0.0102	JBQ	0.00531	5.42	1
11031	23478-PeCDF	57117-31-4	0.0553	JBQ	0.00531	5.42	1
11031	123478-HxCDF	70648-26-9	0.0222	JBQ	0.0106	5.42	1
11031	123678-HxCDF	57117-44-9	0.0180	JBQ	0.00770	5.42	1
11031	123789-HxCDF	72918-21-9	0.0327	JQ	0.00922	5.42	1
11031	234678-HxCDF	60851-34-5	0.0412	JBQ	0.00748	5.42	1
11031	1234678-HpCDF	67562-39-4	0.0992	JB	0.00759	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0173	JBQ	0.0118	5.42	1
11031	OCDF	39001-02-0	0.185	JBQ	0.0232	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-246-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-4.0-5.0

LLI Sample # SW 6220853
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:45

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6105 SDG#: DX061-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-246-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-4.0-5.0

LLI Sample # SW 6220853
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 11:45

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6105 SDG#: DX061-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/22/2011 02:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-246-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-9.0-10.0

LLI Sample # SW 6220854
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:20

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6106 SDG#: DX061-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-246-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-9.0-10.0

LLI Sample # SW 6220854
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:20

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6106 SDG#: DX061-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0101	U	0.0101	1.11	1
11031	12378-PeCDD	40321-76-4	0.0829	JB	0.0105	5.54	1
11031	123478-HxCDD	39227-28-6	0.0400	JQ	0.0160	5.54	1
11031	123678-HxCDD	57653-85-7	0.130	J	0.0164	5.54	1
11031	123789-HxCDD	19408-74-3	0.326	JB	0.0156	5.54	1
11031	1234678-HpCDD	35822-46-9	0.255	JB	0.0165	5.54	1
11031	OCDD	3268-87-9	0.893	JB	0.0217	11.1	1
11031	2378-TCDF	51207-31-9	0.0303	J	0.00876	1.11	1
11031	12378-PeCDF	57117-41-6	0.116	JB	0.00554	5.54	1
11031	23478-PeCDF	57117-31-4	0.133	JB	0.00610	5.54	1
11031	123478-HxCDF	70648-26-9	0.0884	JB	0.0160	5.54	1
11031	123678-HxCDF	57117-44-9	0.0775	JBQ	0.0115	5.54	1
11031	123789-HxCDF	72918-21-9	0.250	J	0.0151	5.54	1
11031	234678-HxCDF	60851-34-5	0.127	JB	0.0119	5.54	1
11031	1234678-HpCDF	67562-39-4	0.222	JB	0.00654	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0688	JBQ	0.0112	5.54	1
11031	OCDF	39001-02-0	0.246	JBQ	0.0215	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	93	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	106	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-246-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-9.0-10.0

LLI Sample # SW 6220854
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:20

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6106 SDG#: DX061-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-246-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-246-SA5A-SB-9.0-10.0

LLI Sample # SW 6220854
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 12:20

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6106 SDG#: DX061-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/22/2011 03:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-247-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-4.0-5.0

LLI Sample # SW 6220855
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:45

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6107 SDG#: DX061-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-247-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-4.0-5.0

LLI Sample # SW 6220855
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:45

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6107 SDG#: DX061-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0291	J	0.0120	1.13	1
11031	12378-PeCDD	40321-76-4	0.0924	JBQ	0.0147	5.64	1
11031	123478-HxCDD	39227-28-6	0.0338	JQ	0.0144	5.64	1
11031	123678-HxCDD	57653-85-7	0.0764	JQ	0.0147	5.64	1
11031	123789-HxCDD	19408-74-3	0.163	JB	0.0139	5.64	1
11031	1234678-HpCDD	35822-46-9	0.223	JB	0.0184	5.64	1
11031	OCDD	3268-87-9	1.24	JB	0.0290	11.3	1
11031	2378-TCDF	51207-31-9	0.0303	JQ	0.0105	1.13	1
11031	12378-PeCDF	57117-41-6	0.129	JB	0.00710	5.64	1
11031	23478-PeCDF	57117-31-4	0.120	JB	0.00767	5.64	1
11031	123478-HxCDF	70648-26-9	0.0805	JB	0.0154	5.64	1
11031	123678-HxCDF	57117-44-9	0.0724	JB	0.0112	5.64	1
11031	123789-HxCDF	72918-21-9	0.166	J	0.0136	5.64	1
11031	234678-HxCDF	60851-34-5	0.0976	JB	0.0112	5.64	1
11031	1234678-HpCDF	67562-39-4	0.191	JB	0.00722	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0552	JB	0.0139	5.64	1
11031	OCDF	39001-02-0	0.222	JB	0.0290	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-247-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-4.0-5.0

LLI Sample # SW 6220855
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:45

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6107 SDG#: DX061-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-247-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-4.0-5.0

LLI Sample # SW 6220855
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:45

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6107 SDG#: DX061-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/22/2011 04:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-247-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-9.0-10.0

LLI Sample # SW 6220856
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:50

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6108 SDG#: DX061-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-247-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-9.0-10.0

LLI Sample # SW 6220856
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:50

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6108 SDG#: DX061-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0530	JQ	0.0113	1.11	1
11031	12378-PeCDD	40321-76-4	0.311	JBQ	0.0148	5.57	1
11031	123478-HxCDD	39227-28-6	0.288	J	0.0252	5.57	1
11031	123678-HxCDD	57653-85-7	0.507	J	0.0260	5.57	1
11031	123789-HxCDD	19408-74-3	0.661	JB	0.0244	5.57	1
11031	1234678-HpCDD	35822-46-9	1.61	JB	0.0255	5.57	1
11031	OCDD	3268-87-9	8.65	JB	0.0247	11.1	1
11031	2378-TCDF	51207-31-9	0.0625	JQ	0.00803	1.11	1
11031	12378-PeCDF	57117-41-6	0.312	JB	0.00725	5.57	1
11031	23478-PeCDF	57117-31-4	0.283	JB	0.00702	5.57	1
11031	123478-HxCDF	70648-26-9	0.279	JB	0.0212	5.57	1
11031	123678-HxCDF	57117-44-9	0.300	JB	0.0179	5.57	1
11031	123789-HxCDF	72918-21-9	0.491	J	0.0202	5.57	1
11031	234678-HxCDF	60851-34-5	0.319	JB	0.0176	5.57	1
11031	1234678-HpCDF	67562-39-4	0.716	JB	0.0154	5.57	1
11031	1234789-HpCDF	55673-89-7	0.224	JBQ	0.0195	5.57	1
11031	OCDF	39001-02-0	0.846	JB	0.0227	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-247-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-9.0-10.0

LLI Sample # SW 6220856
LLI Group # 1235580
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:50

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6108 SDG#: DX061-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

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SSFL Area IV Collocated Soil Sampling
SL-247-SA5A-SB-9.0-10.0

LLI Sample # SW 6220856
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/02/2011 15:50

Submitted: 03/03/2011 09:15
Reported: 03/29/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6108 SDG#: DX061-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/22/2011 05:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235580
Reported: 03/29/11 at 09:54 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11070162401B	Sample number(s): 6220847-6220856								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11077001	Sample number(s): 6220847-6220856								
2378-TCDD	0.0100 U	0.0100	1.00	ng/kg	110		67-158		
12378-PeCDD	0.0179 J	0.00970	5.00	ng/kg	112		70-142		
123478-HxCDD	0.00820 U	0.00820	5.00	ng/kg	110		70-164		
123678-HxCDD	0.00840 U	0.00840	5.00	ng/kg	109		76-134		
123789-HxCDD	0.0135 J	0.00740	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.130 J	0.0135	5.00	ng/kg	106		70-140		
OCDD	0.336 J	0.0147	10.0	ng/kg	107		78-144		
2378-TCDF	0.00810 U	0.00810	1.00	ng/kg	118		75-158		
12378-PeCDF	0.0209 J	0.00450	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0470 J	0.00470	5.00	ng/kg	106		68-160		
123478-HxCDF	0.0221 J	0.0101	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0193 J	0.00730	5.00	ng/kg	105		84-130		
123789-HxCDF	0.00630 U	0.00630	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0455 J	0.00530	5.00	ng/kg	107		70-156		
1234678-HpCDF	0.0994 J	0.00700	5.00	ng/kg	106		82-122		
1234789-HpCDF	0.0344 J	0.00800	5.00	ng/kg	105		78-138		
OCDF	0.169 J	0.0213	10.0	ng/kg	104		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11070162401B	Sample number(s): 6220847-6220856 BKG: P220827								
Moisture Content by 160.3						8.2	9.0	10	20
Batch number: 11077001	Sample number(s): 6220847-6220856 UNSPK: 6220848								
2378-TCDD	107	110	67-158	2	25				
12378-PeCDD	109	112	70-142	2	25				
123478-HxCDD	108	110	70-164	2	25				
123678-HxCDD	109	110	76-134	1	25				
123789-HxCDD	107	107	64-162	0	25				
1234678-HpCDD	105	107	70-140	1	25				
OCDD	105	106	78-144	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235580
Reported: 03/29/11 at 09:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	114	117	75-158	3	25				
12378-PeCDF	107	106	80-134	0	25				
23478-PeCDF	106	107	68-160	1	25				
123478-HxCDF	104	106	72-134	1	25				
123678-HxCDF	105	104	84-130	0	25				
123789-HxCDF	103	105	78-130	1	25				
234678-HxCDF	106	106	70-156	0	25				
1234678-HpCDF	103	104	82-122	1	25				
1234789-HpCDF	105	106	78-138	1	25				
OCDF	103	104	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11077001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6220847	79	78	52	75	79	76
6220848	80	80	28	49	79	69
6220849	70	70	64	76	72	63
6220850	70	72	67	80	74	66
6220851	71	72	62	74	75	66
6220852	74	71	44	65	74	64
6220853	75	75	54	72	75	67
6220854	93	86	67	92	89	79
6220855	85	78	65	87	81	74
6220856	87	89	75	84	88	83
Blank	86	84	46	64	85	80
MS	70	70	64	76	72	63
MSD	70	72	67	80	74	66
OPR	88	78	38	53	81	81
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6220847	82	61	51	90	79	79
6220848	54	58	48	88	82	73
6220849	82	58	52	89	72	76
6220850	85	53	44	84	72	76
6220851	79	59	51	87	73	73
6220852	74	54	44	87	73	74
6220853	78	58	49	85	75	75
6220854	102	66	56	106	89	90
6220855	99	58	46	97	79	85
6220856	82	75	66	99	86	85

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235580
Reported: 03/29/11 at 09:54 AM

Surrogate Quality Control

Blank	68	67	57	106	87	84
MS	82	58	52	89	72	76
MSD	85	53	44	84	72	76
OPR	52	62	49	88	80	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6220847	85	84	76	68	78	87
6220848	81	84	74	64	82	89
6220849	79	76	71	64	69	76
6220850	79	78	66	58	71	81
6220851	79	76	71	64	73	78
6220852	78	78	70	62	72	85
6220853	78	78	71	65	76	83
6220854	93	93	86	78	90	98
6220855	87	86	78	67	84	91
6220856	88	87	80	71	91	90
Blank	88	91	82	71	84	91
MS	79	76	71	64	69	76
MSD	79	78	66	58	71	81
OPR	77	86	73	63	84	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1235580 Sample# 6220847-56

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS								VOCs			
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/8471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	Other Instructions and Notes
DUP08-SA5A-QC-030211	3.02.11	0908	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
DUP08-SA5A-QC-030211	3.02.11	0903	SOIL	NONE	4-Encores									X	X		
SL-245-SA5A-SB-4.0-5.0MS	3.02.11	0852	SOIL	NONE	6-16 oz jars	X	X	X	X	X	X	X					MS/MSD Sample
SL-245-SA5A-SB-4.5MS	3.02.11	0848	SOIL	NONE	12-Encores									X	X		MS/MSD Sample
SL-245-SA5A-SB-9.0-10.0	3.02.11	0912	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-245-SA5A-SB-29.0-30.0	3.02.11	0922	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X				
SL-246-SA5A-SB-4.0-5.0	3.02.11	1145	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-246-SA5A-SB-4.5	3.02.11	1140	SOIL	NONE	4-Encores									X	X		
SL-246-SA5A-SB-9.0-10.0	3.02.11	1220	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-247-SA5A-SB-4.0-5.0	3.02.11	1545	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-247-SA5A-SB-4.5	3.02.11	1540	SOIL	NONE	4-Encores									X	X		
SL-247-SA5A-SB-9.0-10.0	3.02.11	1550	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
TB-0302111	3.02.11	1630	WATER	HCl	3-40 mL VOA VIALS									X	X		TRIP BLANK

Relinquished by: (*Signature*)	Date/Time 03/02/2011 / 17:00	Received for Laboratory by: (*Signature*) 3/3/11 915	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8700 5935 3881; 8700 5935 3907 8700 5935 3940	SUB-SURFACE

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/04/2011
Group Number: 1235800
SDG: DE097
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-234-SA5A-SB-4.0-5.0 Soil	6222138
SL-234-SA5A-SB-9.0-10.0 Soil	6222139
SL-235-SA5A-SB-4.0-5.0 Soil	6222140
SL-235-SA5A-SB-8.5-9.5 Soil	6222141
SL-236-SA5A-SB-4.0-5.0 Soil	6222142
SL-236-SA5A-SB-9.0-10.0 Soil	6222143
SL-249-SA5A-SB-2.5-3.5 Soil	6222144
SL-249-SA5A-SB-9.0-10.0 Soil	6222145
EB06-SA5A-030311 Water	6222146
TB-030311 Water	6222147

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-234-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-4.0-5.0

LLI Sample # SW 6222138
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:53

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9701 SDG#: DE097-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.85
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.85
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.85
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.85
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.85
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.85
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.85
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.85
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.85
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.85
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.85
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.85
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.85
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.85
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.85
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.85
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.85
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7		0.85
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.85
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.85
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.85
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.85
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.85
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.85
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.85
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.85
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.85
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.85
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.85
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.85
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.85
06192	Methylene Chloride	75-09-2	0.41	J	0.22	3.7		0.85
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-234-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-4.0-5.0

LLI Sample # SW 6222138
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:53

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9701 SDG#: DE097-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.85
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.85
06192	Toluene	108-88-3	0.09	J	0.07	3.7		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.85
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.85
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.85
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		22.12
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-234-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-4.0-5.0

LLI Sample # SW 6222138
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:53

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9701 SDG#: DE097-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.79	J	0.72	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-234-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-4.0-5.0

LLI Sample # SW 6222138
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:53

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E9701 SDG#: DE097-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		5.23	20.8		1
07914	Boron	7440-42-8	3.89	J	0.925	5.20		1
01650	Calcium	7440-70-2	2,080		6.37	20.8		1
01654	Iron	7439-89-6	19,300		4.90	20.8		1
01656	Lithium	7439-93-2	21.2		0.23	2.1		1
01657	Magnesium	7439-95-4	3,780		2.64	10.4		1
06958	Manganese	7439-96-5	316		0.0811	0.520		1
10145	Phosphorus	7723-14-0	355		0.582	10.4		1
01662	Potassium	7440-09-7	3,390		18.7	52.0		1
01667	Sodium	7440-23-5	82.9	J	38.8	104		1
07968	Strontium	7440-24-6	20.6		0.0644	0.520		1
06969	Tin	7440-31-5	2.48	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,080		0.395	1.04		1
10146	Zirconium	7440-67-7	1.53	J	0.873	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0687	J	0.0636	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.11		0.0848	0.424		2
06126	Barium	7440-39-3	113		0.114	0.424		2
06127	Beryllium	7440-41-7	0.662		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.163		0.0424	0.106		2
06131	Chromium	7440-47-3	17.0		0.127	0.424		2
06132	Cobalt	7440-48-4	5.59		0.0212	0.106		2
06133	Copper	7440-50-8	8.57		0.0700	0.424		2
06135	Lead	7439-92-1	5.23		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.550		0.0530	0.106		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-234-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-4.0-5.0

LLI Sample # SW 6222138
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:53

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9701 SDG#: DE097-01

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	11.5		0.106	0.424		2
06141	Selenium		7782-49-2	0.0831	J	0.0424	0.424		2
06142	Silver		7440-22-4	0.0259	J	0.0127	0.106		2
06145	Thallium		7440-28-0	0.263		0.0318	0.106		2
06148	Vanadium		7440-62-2	34.4		0.0233	0.106		2
06149	Zinc		7440-66-6	62.1		0.594	3.18		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0030	U	0.0030	0.103		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.7		0.86	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.7	U	9.7	32.4		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.45	J	0.22	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	398		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.91		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	7.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-234-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-234-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-4.0-5.0

LLI Sample # SW 6222138
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:53

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9701 SDG#: DE097-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110671AA	03/08/2011 15:16	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110631AA	03/04/2011 15:08	Jason M Long	22.12
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106323818	03/04/2011 13:30	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106323818	03/04/2011 14:00	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106323818	03/04/2011 14:00	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106323818	03/04/2011 13:31	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 10:13	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011 09:54	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110760008A	03/22/2011 01:01	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110760008A	03/17/2011 16:20	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 21:11	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 15:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/17/2011 08:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:28	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-234-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-4.0-5.0

LLI Sample # SW 6222138
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:53

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9701 SDG#: DE097-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201B	03/17/2011 23:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201A	03/11/2011 21:47	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11068243201A	03/11/2011 14:13	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201B	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201A	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182101B	03/08/2011 08:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039401B	03/08/2011 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401B	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-234-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-9.0-10.0

LLI Sample # SW 6222139
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:55

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9702 SDG#: DE097-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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Sample Description: **SL-234-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-9.0-10.0

LLI Sample # SW 6222139
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:55

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9702 SDG#: DE097-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		5.58	22.2		1
07914	Boron	7440-42-8	2.92	J	0.988	5.55		1
01650	Calcium	7440-70-2	1,920		6.80	22.2		1

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Sample Description: **SL-234-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-9.0-10.0

LLI Sample # SW 6222139
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:55

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9702 SDG#: DE097-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	20,500		5.23	22.2		1
01656	Lithium	7439-93-2	18.1		0.24	2.2		1
01657	Magnesium	7439-95-4	4,150		2.82	11.1		1
06958	Manganese	7439-96-5	318		0.0866	0.555		1
10145	Phosphorus	7723-14-0	127		0.622	11.1		1
01662	Potassium	7440-09-7	2,150		20.0	55.5		1
01667	Sodium	7440-23-5	126		41.4	111		1
07968	Strontium	7440-24-6	19.2		0.0688	0.555		1
06969	Tin	7440-31-5	2.57	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,190		0.422	1.11		1
10146	Zirconium	7440-67-7	1.77	J	0.932	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0842	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.65		0.0879	0.440		2
06126	Barium	7440-39-3	96.6		0.119	0.440		2
06127	Beryllium	7440-41-7	0.703		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0874	J	0.0440	0.110		2
06131	Chromium	7440-47-3	15.6		0.132	0.440		2
06132	Cobalt	7440-48-4	26.1		0.0220	0.110		2
06133	Copper	7440-50-8	5.56		0.0725	0.440		2
06135	Lead	7439-92-1	8.89		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.765		0.0550	0.110		2
06139	Nickel	7440-02-0	9.58		0.110	0.440		2
06141	Selenium	7782-49-2	0.0441	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0252	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.329		0.0330	0.110		2
06148	Vanadium	7440-62-2	43.1		0.0242	0.110		2
06149	Zinc	7440-66-6	49.2		0.615	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	332		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-234-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-9.0-10.0

LLI Sample # SW 6222139
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:55

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9702 SDG#: DE097-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.15	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011	10:38	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011	11:27	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011	04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110760008A	03/22/2011	01:20	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110760008A	03/17/2011	16:20	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011	21:15	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011	15:31	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-234-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-9.0-10.0

LLI Sample # SW 6222139
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:55

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9702 SDG#: DE097-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 15:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201B	03/18/2011 00:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201B	03/11/2011 22:11	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11068243201A	03/11/2011 14:25	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201B	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201B	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182102A	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402A	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401B	03/08/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-235-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-4.0-5.0

LLI Sample # SW 6222140
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:33

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9703 SDG#: DE097-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.6		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.85
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.85
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.8		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.85
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.85
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.85
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.8		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.85
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.85
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.85
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.8		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.8		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.85
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.85
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.8		0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.85
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.85
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.85
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.85
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.85
06192	Methylene Chloride	75-09-2	0.34	J	0.23	3.8		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.85

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-235-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-4.0-5.0

LLI Sample # SW 6222140
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:33

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9703 SDG#: DE097-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.85
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.29
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-235-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-4.0-5.0

LLI Sample # SW 6222140
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:33

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9703 SDG#: DE097-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.84	J	0.75	1.9		1

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Sample Description: SL-235-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-4.0-5.0

LLI Sample # SW 6222140
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:33

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9703 SDG#: DE097-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	4.6		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		5.52	21.9		1
07914	Boron	7440-42-8	3.92	J	0.976	5.49		1
01650	Calcium	7440-70-2	4,930		6.72	21.9		1
01654	Iron	7439-89-6	19,900		5.17	21.9		1
01656	Lithium	7439-93-2	23.9		0.24	2.2		1
01657	Magnesium	7439-95-4	4,890		2.79	11.0		1
06958	Manganese	7439-96-5	342		0.0856	0.549		1
10145	Phosphorus	7723-14-0	413		0.614	11.0		1
01662	Potassium	7440-09-7	3,070		19.7	54.9		1
01667	Sodium	7440-23-5	82.7	J	40.9	110		1
07968	Strontium	7440-24-6	19.7		0.0680	0.549		1
06969	Tin	7440-31-5	2.61	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,070		0.417	1.10		1
10146	Zirconium	7440-67-7	1.70	J	0.922	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0828	J	0.0646	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.92		0.0861	0.430		2
06126	Barium	7440-39-3	113		0.116	0.430		2
06127	Beryllium	7440-41-7	0.572		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.232		0.0430	0.108		2
06131	Chromium	7440-47-3	18.7		0.129	0.430		2
06132	Cobalt	7440-48-4	5.65		0.0215	0.108		2
06133	Copper	7440-50-8	9.26		0.0710	0.430		2
06135	Lead	7439-92-1	5.96		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.534		0.0538	0.108		2

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Sample Description: SL-235-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-4.0-5.0

LLI Sample # SW 6222140
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:33

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9703 SDG#: DE097-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	10.6	0.108	0.430		2
06141	Selenium	7782-49-2	0.0965 J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0331 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.326	0.0323	0.108		2
06148	Vanadium	7440-62-2	34.0	0.0237	0.108		2
06149	Zinc	7440-66-6	66.2	0.603	3.23		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	33.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	405	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.77	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-235-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-235-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-4.0-5.0

LLI Sample # SW 6222140
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:33

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9703 SDG#: DE097-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110671AA	03/08/2011 15:38	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110631AA	03/04/2011 15:28	Jason M Long	20.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106323818	03/04/2011 13:34	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106323818	03/04/2011 14:01	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106323818	03/04/2011 14:01	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106323818	03/04/2011 13:34	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 16:26	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011 11:58	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110760008A	03/22/2011 01:38	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110760008A	03/17/2011 16:20	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 21:19	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 15:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 15:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:34	Choon Y Tian	2

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Sample Description: **SL-235-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-4.0-5.0

LLI Sample # SW 6222140
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:33

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9703 SDG#: DE097-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201B	03/18/2011 00:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201B	03/11/2011 23:23	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11068243201A	03/11/2011 14:44	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201B	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201B	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182102A	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402A	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401B	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-235-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-8.5-9.5

LLI Sample # SW 6222141
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:38

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9704 SDG#: DE097-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-235-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-8.5-9.5

LLI Sample # SW 6222141
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:38

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9704 SDG#: DE097-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,600		5.65	22.5		1
07914	Boron	7440-42-8	3.97	J	1.00	5.62		1
01650	Calcium	7440-70-2	2,730		6.89	22.5		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-235-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-8.5-9.5

LLI Sample # SW 6222141
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:38

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9704 SDG#: DE097-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	25,200		5.29	22.5		1
01656	Lithium	7439-93-2	23.8		0.25	2.2		1
01657	Magnesium	7439-95-4	4,360		2.85	11.2		1
06958	Manganese	7439-96-5	168		0.0877	0.562		1
10145	Phosphorus	7723-14-0	327		0.629	11.2		1
01662	Potassium	7440-09-7	1,590		20.2	56.2		1
01667	Sodium	7440-23-5	138		41.9	112		1
07968	Strontium	7440-24-6	23.6		0.0697	0.562		1
06969	Tin	7440-31-5	2.69	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,200		0.427	1.12		1
10146	Zirconium	7440-67-7	0.944	U	0.944	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0661	U	0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.44		0.0882	0.441		2
06126	Barium	7440-39-3	97.6		0.119	0.441		2
06127	Beryllium	7440-41-7	0.794		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0767	J	0.0441	0.110		2
06131	Chromium	7440-47-3	21.0		0.132	0.441		2
06132	Cobalt	7440-48-4	5.62		0.0220	0.110		2
06133	Copper	7440-50-8	7.36		0.0727	0.441		2
06135	Lead	7439-92-1	5.86		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.444		0.0551	0.110		2
06139	Nickel	7440-02-0	10.7		0.110	0.441		2
06141	Selenium	7782-49-2	0.0655	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0335	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.255		0.0331	0.110		2
06148	Vanadium	7440-62-2	50.8		0.0242	0.110		2
06149	Zinc	7440-66-6	49.4		0.617	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	412		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-235-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-8.5-9.5

LLI Sample # SW 6222141
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:38

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9704 SDG#: DE097-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.23	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 16:51	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011 12:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110760008A	03/22/2011 01:57	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110760008A	03/17/2011 16:20	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 21:23	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 15:37	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-235-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-8.5-9.5

LLI Sample # SW 6222141
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:38

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9704 SDG#: DE097-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 15:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201B	03/18/2011 00:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201B	03/11/2011 23:47	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11068243201A	03/11/2011 14:56	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201B	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201B	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182102A	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402A	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401B	03/08/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-236-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-4.0-5.0

LLI Sample # SW 6222142
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:53

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9705 SDG#: DE097-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	71		5.8	7.0		0.79
06192	Benzene	71-43-2	0.09	U	0.09	3.5		0.79
06192	Bromobenzene	108-86-1	0.11	U	0.11	3.5		0.79
06192	Bromochloromethane	74-97-5	0.29	U	0.29	3.5		0.79
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.5		0.79
06192	Bromoform	75-25-2	0.35	U	0.35	3.5		0.79
06192	Bromomethane	74-83-9	0.22	U	0.22	3.5		0.79
06192	2-Butanone	78-93-3	11		1.1	7.0		0.79
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.5		0.79
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.5		0.79
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.5		0.79
06192	Carbon Tetrachloride	56-23-5	0.12	U	0.12	3.5		0.79
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.5		0.79
06192	Chloroethane	75-00-3	0.11	U	0.11	3.5		0.79
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.26	U	0.26	3.5		0.79
06192	Chloroform	67-66-3	0.11	U	0.11	3.5		0.79
06192	Chloromethane	74-87-3	0.29	U	0.29	3.5		0.79
06192	2-Chlorotoluene	95-49-8	0.12	U	0.12	3.5		0.79
06192	4-Chlorotoluene	106-43-4	0.12	U	0.12	3.5		0.79
06192	Chlorotrifluoroethene	79-38-9	0.44	U	0.44	4.4		0.79
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.61	U	0.61	3.5		0.79
06192	Dibromochloromethane	124-48-1	0.17	U	0.17	3.5		0.79
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.5		0.79
06192	Dibromomethane	74-95-3	0.21	U	0.21	3.5		0.79
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.5		0.79
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.5		0.79
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.5		0.79
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.5		0.79
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.5		0.79
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.5		0.79
06192	1,1-Dichloroethene	75-35-4	0.34	U	0.34	3.5		0.79
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.5		0.79
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.5		0.79
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.5		0.79
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.5		0.79
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.5		0.79
06192	1,1-Dichloropropene	563-58-6	0.11	U	0.11	3.5		0.79
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.5		0.79
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.5		0.79
06192	Ethylbenzene	100-41-4	0.14	J	0.05	3.5		0.79
06192	Freon 113	76-13-1	0.1	U	0.1	3.5		0.79
06192	Freon 133a	75-88-7	0.44	U	0.44	4.4		0.79
06192	Hexachlorobutadiene	87-68-3	0.12	U	0.12	3.5		0.79
06192	2-Hexanone	591-78-6	1.4	U	1.4	7.0		0.79
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.5		0.79
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.5		0.79
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.18	U	0.18	3.5		0.79
06192	4-Methyl-2-pentanone	108-10-1	0.34	U	0.34	7.0		0.79
06192	Methylene Chloride	75-09-2	0.43	J	0.21	3.5		0.79
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.5		0.79

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Sample Description: SL-236-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-4.0-5.0

LLI Sample # SW 6222142
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:53

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9705 SDG#: DE097-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.5		0.79
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.5		0.79
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.20	U	0.20	3.5		0.79
06192	Tetrachloroethene	127-18-4	0.17	U	0.17	3.5		0.79
06192	Toluene	108-88-3	0.08	J	0.07	3.5		0.79
06192	1,2,3-Trichlorobenzene	87-61-6	0.12	U	0.12	3.5		0.79
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.5		0.79
06192	1,1,1-Trichloroethane	71-55-6	0.17	U	0.17	3.5		0.79
06192	1,1,2-Trichloroethane	79-00-5	0.24	U	0.24	3.5		0.79
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.5		0.79
06192	Trichlorofluoromethane	75-69-4	0.25	U	0.25	3.5		0.79
06192	1,2,3-Trichloropropane	96-18-4	0.29	U	0.29	3.5		0.79
06192	1,2,4-Trimethylbenzene	95-63-6	0.35	U	0.35	3.5		0.79
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.5		0.79
06192	Vinyl Chloride	75-01-4	0.17	U	0.17	3.5		0.79
06192	m+p-Xylene	179601-23-1	0.43	J	0.15	3.5		0.79
06192	o-Xylene	95-47-6	0.15	U	0.15	3.5		0.79
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.8
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1

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Sample Description: **SL-236-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-4.0-5.0

LLI Sample # SW 6222142
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:53

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9705 SDG#: DE097-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.2	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	1.2	J	0.73	1.8		1

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Sample Description: **SL-236-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-4.0-5.0

LLI Sample # SW 6222142
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:53

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9705 SDG#: DE097-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	J	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,000		5.46	21.7		1
07914	Boron	7440-42-8	3.77	J	0.966	5.43		1
01650	Calcium	7440-70-2	2,130		6.66	21.7		1
01654	Iron	7439-89-6	18,600		5.11	21.7		1
01656	Lithium	7439-93-2	23.7		0.24	2.2		1
01657	Magnesium	7439-95-4	3,750		2.76	10.9		1
06958	Manganese	7439-96-5	234		0.0847	0.543		1
10145	Phosphorus	7723-14-0	290		0.608	10.9		1
01662	Potassium	7440-09-7	2,930		19.5	54.3		1
01667	Sodium	7440-23-5	90.8	J	40.5	109		1
07968	Strontium	7440-24-6	19.8		0.0673	0.543		1
06969	Tin	7440-31-5	2.63	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,090		0.413	1.09		1
10146	Zirconium	7440-67-7	1.63	J	0.912	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0651	U	0.0651	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.06		0.0869	0.434		2
06126	Barium	7440-39-3	103		0.117	0.434		2
06127	Beryllium	7440-41-7	0.639		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.143		0.0434	0.109		2
06131	Chromium	7440-47-3	14.9		0.130	0.434		2
06132	Cobalt	7440-48-4	5.45		0.0217	0.109		2
06133	Copper	7440-50-8	6.67		0.0717	0.434		2
06135	Lead	7439-92-1	5.47		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.439		0.0543	0.109		2

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Sample Description: SL-236-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-4.0-5.0

LLI Sample # SW 6222142
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:53

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9705 SDG#: DE097-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	9.64	0.109	0.434		2
06141	Selenium	7782-49-2	0.0816 J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0397 J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.306	0.0326	0.109		2
06148	Vanadium	7440-62-2	32.2	0.0239	0.109		2
06149	Zinc	7440-66-6	58.0	0.608	3.26		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	430	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.05	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-236-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-236-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-4.0-5.0

LLI Sample # SW 6222142
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:53

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9705 SDG#: DE097-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110671AA	03/08/2011 16:01	Chelsea B Eastep	0.79
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110631AA	03/04/2011 15:48	Jason M Long	20.8
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106323818	03/04/2011 13:47	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106323818	03/04/2011 14:01	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106323818	03/04/2011 13:47	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 17:16	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011 13:00	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110760008A	03/22/2011 02:15	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110760008A	03/17/2011 16:20	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 21:35	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 15:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 15:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-236-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-4.0-5.0

LLI Sample # SW 6222142
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:53

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9705 SDG#: DE097-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201B	03/18/2011 01:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201B	03/12/2011 00:11	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11068243201A	03/11/2011 15:03	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201B	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201B	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182102A	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402A	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401B	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-236-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-9.0-10.0

LLI Sample # SW 6222143
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:58

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9706 SDG#: DE097-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-236-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-9.0-10.0

LLI Sample # SW 6222143
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:58

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9706 SDG#: DE097-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,200		5.47	21.8		1
07914	Boron	7440-42-8	3.65	J	0.969	5.44		1
01650	Calcium	7440-70-2	2,630		6.67	21.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-236-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-9.0-10.0

LLI Sample # SW 6222143
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:58

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9706 SDG#: DE097-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	20,200		5.13	21.8		1
01656	Lithium	7439-93-2	26.1		0.24	2.2		1
01657	Magnesium	7439-95-4	4,470		2.76	10.9		1
06958	Manganese	7439-96-5	245		0.0849	0.544		1
10145	Phosphorus	7723-14-0	331		0.610	10.9		1
01662	Potassium	7440-09-7	1,930		19.6	54.4		1
01667	Sodium	7440-23-5	116		40.6	109		1
07968	Strontium	7440-24-6	21.9		0.0675	0.544		1
06969	Tin	7440-31-5	2.61	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,140		0.414	1.09		1
10146	Zirconium	7440-67-7	1.56	J	0.914	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0647	U	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.61		0.0862	0.431		2
06126	Barium	7440-39-3	121		0.116	0.431		2
06127	Beryllium	7440-41-7	1.00		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.0842	J	0.0431	0.108		2
06131	Chromium	7440-47-3	22.9		0.129	0.431		2
06132	Cobalt	7440-48-4	6.87		0.0216	0.108		2
06133	Copper	7440-50-8	7.33		0.0711	0.431		2
06135	Lead	7439-92-1	7.71		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.687		0.0539	0.108		2
06139	Nickel	7440-02-0	15.2		0.108	0.431		2
06141	Selenium	7782-49-2	0.0695	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0657	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.321		0.0323	0.108		2
06148	Vanadium	7440-62-2	52.7		0.0237	0.108		2
06149	Zinc	7440-66-6	53.1		0.604	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.55	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	426		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-236-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-9.0-10.0

LLI Sample # SW 6222143
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:58

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9706 SDG#: DE097-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.91	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011	17:41	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011	13:31	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011	04:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110760008A	03/22/2011	02:34	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110760008A	03/17/2011	16:20	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011	21:39	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011	15:49	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-236-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-9.0-10.0

LLI Sample # SW 6222143
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:58

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9706 SDG#: DE097-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 15:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 04:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201B	03/18/2011 01:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201B	03/12/2011 00:35	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11068243201A	03/11/2011 15:34	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201B	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201B	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182102A	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402A	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401B	03/08/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-249-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-2.5-3.5

LLI Sample # SW 6222144
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:00

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9707 SDG#: DE097-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	17		6.2	7.4		0.84
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.84
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.84
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.84
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.84
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.84
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.84
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.84
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.84
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.84
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.84
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.84
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.84
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.84
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.84
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.84
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.84
06192	Methylene Chloride	75-09-2	0.40	J	0.22	3.7		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.84

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-249-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-2.5-3.5

LLI Sample # SW 6222144
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:00

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9707 SDG#: DE097-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.84
06192	Toluene	108-88-3	0.09	J	0.07	3.7		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.84
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	23.6	J	18.4	36.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-249-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-2.5-3.5

LLI Sample # SW 6222144
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:00

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9707 SDG#: DE097-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-249-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-2.5-3.5

LLI Sample # SW 6222144
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:00

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9707 SDG#: DE097-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	1.3	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.78
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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Sample Description: **SL-249-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-2.5-3.5

LLI Sample # SW 6222144
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:00

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9707 SDG#: DE097-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	3.1		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	19		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	27		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1

Target analytes were detected in the method blank associated with the sample as noted on the QC summary. The recoveries for target analytes in the Laboratory Control Spike are outside the QC acceptance limits as noted on the QC summary. The ending/bracketing CCV was analyzed past the 12 hour window. The following corrective action was taken:
The sample was re-extracted outside the method hold time. Target analytes were detected in the re-extracted method blank associated with the sample. The recoveries for target analytes in the re-extracted Laboratory Control Spike are outside the QC acceptance limits as noted on the QC summary. The C21-C30 and C30-C40 results for the re-extraction are 17 mg/kg 24 mg/kg respectively. The inial in hold trial is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	450	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the

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Sample Description: **SL-249-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-2.5-3.5

LLI Sample # SW 6222144
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:00

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9707 SDG#: DE097-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
sample matrix and the data is reported.								
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000		5.28	21.0		1
07914	Boron	7440-42-8	7.72		0.935	5.25		1
01650	Calcium	7440-70-2	7,850		6.44	21.0		1
01654	Iron	7439-89-6	22,300		4.95	21.0		1
01656	Lithium	7439-93-2	26.0		0.23	2.1		1
01657	Magnesium	7439-95-4	5,140		2.67	10.5		1
06958	Manganese	7439-96-5	355		0.0819	0.525		1
10145	Phosphorus	7723-14-0	386		0.588	10.5		1
01662	Potassium	7440-09-7	3,160		18.9	52.5		1
01667	Sodium	7440-23-5	150		39.2	105		1
07968	Strontium	7440-24-6	20.9		0.0651	0.525		1
06969	Tin	7440-31-5	2.53	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,200		0.399	1.05		1
10146	Zirconium	7440-67-7	1.14	J	0.882	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0976	J	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.65		0.0856	0.428		2
06126	Barium	7440-39-3	167		0.116	0.428		2
06127	Beryllium	7440-41-7	1.08		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.130		0.0428	0.107		2
06131	Chromium	7440-47-3	32.5		0.128	0.428		2
06132	Cobalt	7440-48-4	9.50		0.0214	0.107		2
06133	Copper	7440-50-8	18.5		0.0706	0.428		2
06135	Lead	7439-92-1	11.4		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.770		0.0535	0.107		2
06139	Nickel	7440-02-0	20.7		0.107	0.428		2
06141	Selenium	7782-49-2	0.190	J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0413	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.446		0.0321	0.107		2
06148	Vanadium	7440-62-2	59.0		0.0235	0.107		2
06149	Zinc	7440-66-6	90.4		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.88	1.7		1

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Sample Description: **SL-249-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-2.5-3.5

LLI Sample # SW 6222144
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:00

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9707 SDG#: DE097-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	422		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.20		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-249-SA5A-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110671AA	03/08/2011 16:23	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110631AA	03/04/2011 16:08	Jason M Long	21.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106323818	03/04/2011 13:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106323818	03/04/2011 14:01	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106323818	03/04/2011 14:01	Christopher D Meeks	n.a.

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Sample Description: **SL-249-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-2.5-3.5

LLI Sample # SW 6222144
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:00

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E9707 SDG#: DE097-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106323818	03/04/2011 13:51	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11070SLA026	03/16/2011 14:44	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 18:07	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011 14:03	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11070SLA026	03/12/2011 06:50	David V Hershey Jr	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34C	03/09/2011 11:24	Elizabeth J Marin	21.78
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201106323818	03/04/2011 13:50	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110710003A	03/16/2011 03:53	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	110660016A	03/10/2011 20:30	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110760008A	03/22/2011 02:52	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110760008A	03/17/2011 16:20	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110660016A	03/08/2011 10:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110710003A	03/13/2011 16:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110730021A	03/16/2011 02:25	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110680024A	03/09/2011 20:53	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110660018A	03/07/2011 21:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110730020A	03/16/2011 08:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110730021A	03/15/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110730020A	03/15/2011 02:45	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110660018A	03/07/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110680024A	03/09/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 21:43	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 15:52	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-249-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-2.5-3.5

LLI Sample # SW 6222144
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E9707 SDG#: DE097-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/17/2011 08:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 15:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 05:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201B	03/18/2011 01:40	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11075075201B	03/18/2011 01:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201B	03/12/2011 00:59	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11068243201A	03/11/2011 15:46	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11073102201A	03/14/2011 15:33	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201B	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201B	03/09/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11073102201A	03/14/2011 10:00	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182102A	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402A	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-249-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-9.0-10.0

LLI Sample # SW 6222145
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:10

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9708 SDG#: DE097-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6	U	7.6	9.1		1.03
06192	Benzene	71-43-2	0.11	U	0.11	4.6		1.03
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.03
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.03
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.03
06192	Bromomethane	74-83-9	0.28	U	0.28	4.6		1.03
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		1.03
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.03
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.03
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.03
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.6		1.03
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.03
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.03
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.6		1.03
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.03
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.6		1.03
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.6		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		1.03
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.03
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.6		1.03
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.03
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.6		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.03
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.6		1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.03
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.6		1.03
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.6		1.03
06192	Ethylbenzene	100-41-4	0.10	J	0.07	4.6		1.03
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.03
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.03
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.03
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		1.03
06192	Methylene Chloride	75-09-2	0.47	J	0.27	4.6		1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.03

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Sample Description: **SL-249-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-9.0-10.0

LLI Sample # SW 6222145
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:10

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9708 SDG#: DE097-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.6		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		1.03
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.03
06192	Toluene	108-88-3	0.09	U	0.09	4.6		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.03
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.03
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.6		1.03
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.03
06192	m+p-Xylene	179601-23-1	0.33	J	0.19	4.6		1.03
06192	o-Xylene	95-47-6	0.19	U	0.19	4.6		1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.48
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.4	U	18.4	36.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1

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Sample Description: SL-249-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-9.0-10.0

LLI Sample # SW 6222145
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:10

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9708 SDG#: DE097-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1

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Sample Description: **SL-249-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-9.0-10.0

LLI Sample # SW 6222145
LLI Group # 1235800
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:10

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E9708 SDG#: DE097-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.37
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	120	U	120	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-9.0-10.0

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E9708 SDG#: DE097-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Due to interfering peaks on the chromatogram, the values reported for HMX represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.62	J	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	3.0		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
	Target analytes were detected in the method blank associated with the sample as noted on the QC summary. The recoveries for target analytes in the Laboratory Control Spike are outside the QC acceptance limits as noted on the QC summary. The ending/bracketing CCV was analyzed past the 12 hour window. The following corrective action was taken: The sample was re-extracted outside the method hold time. Target analytes were detected in the re-extracted method blank associated with the sample. Similar results were obtained in both extracts. The inial in hold trial is reported.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-249-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-9.0-10.0

LLI Sample # SW 6222145
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:10

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9708 SDG#: DE097-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000		5.44	21.6		1
07914	Boron	7440-42-8	7.02		0.962	5.40		1
01650	Calcium	7440-70-2	2,150		6.63	21.6		1
01654	Iron	7439-89-6	21,200		5.09	21.6		1
01656	Lithium	7439-93-2	22.3		0.24	2.2		1
01657	Magnesium	7439-95-4	4,300		2.75	10.8		1
06958	Manganese	7439-96-5	217		0.0843	0.540		1
10145	Phosphorus	7723-14-0	202		0.605	10.8		1
01662	Potassium	7440-09-7	1,970		19.5	54.0		1
01667	Sodium	7440-23-5	115		40.3	108		1
07968	Strontium	7440-24-6	21.4		0.0670	0.540		1
06969	Tin	7440-31-5	2.83	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,120		0.411	1.08		1
10146	Zirconium	7440-67-7	1.16	J	0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0899	J	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.33		0.0865	0.432		2
06126	Barium	7440-39-3	98.1		0.117	0.432		2
06127	Beryllium	7440-41-7	0.864		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.108	J	0.0432	0.108		2
06131	Chromium	7440-47-3	19.8		0.130	0.432		2
06132	Cobalt	7440-48-4	7.58		0.0216	0.108		2
06133	Copper	7440-50-8	6.82		0.0713	0.432		2
06135	Lead	7439-92-1	6.61		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.783		0.0540	0.108		2
06139	Nickel	7440-02-0	11.0		0.108	0.432		2
06141	Selenium	7782-49-2	0.0505	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0629	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.309		0.0324	0.108		2
06148	Vanadium	7440-62-2	42.9		0.0238	0.108		2
06149	Zinc	7440-66-6	54.4		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.103		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-249-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-9.0-10.0

LLI Sample # SW 6222145
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:10

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9708 SDG#: DE097-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.8		0.88	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	421		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.68		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-249-SA5A-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110671AA	03/08/2011	16:45	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110631AA	03/04/2011	16:28	Jason M Long	22.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106323818	03/04/2011	13:54	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-249-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-9.0-10.0

LLI Sample # SW 6222145
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:10

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9708 SDG#: DE097-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106323818	03/04/2011 14:01	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106323818	03/04/2011 14:01	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106323818	03/04/2011 13:55	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11070SLA026	03/16/2011 15:28	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11069SLC026	03/19/2011 18:32	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011 14:34	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11070SLA026	03/12/2011 06:50	David V Hershey Jr	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11069SLC026	03/11/2011 04:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34C	03/09/2011 12:00	Elizabeth J Marin	21.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201106323818	03/04/2011 13:54	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110710003A	03/16/2011 06:01	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	110660016A	03/10/2011 20:39	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110710012A	03/15/2011 15:08	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110760008A	03/22/2011 03:11	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110760008A	03/17/2011 16:20	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110710012A	03/14/2011 09:25	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110660016A	03/08/2011 10:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110710003A	03/13/2011 16:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110730021A	03/16/2011 02:58	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110680024A	03/09/2011 21:08	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110660018A	03/07/2011 21:23	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110730020A	03/16/2011 10:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110730021A	03/15/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110730020A	03/15/2011 02:45	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110660018A	03/07/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110680024A	03/09/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-249-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-9.0-10.0

LLI Sample # SW 6222145
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:10

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9708 SDG#: DE097-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 21:47	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 15:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 15:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 05:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075075201B	03/18/2011 02:26	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11075075201B	03/18/2011 02:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201B	03/12/2011 01:47	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11068243201A	03/11/2011 15:59	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11073102201A	03/14/2011 15:37	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075075201B	03/16/2011 12:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201B	03/09/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11073102201A	03/14/2011 10:00	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182102A	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402A	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11068243201A	03/09/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB06-SA5A-030311 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5A-030311

LLI Sample # WW 6222146
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 16:20

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9709 SDG#: DE097-09EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB06-SA5A-030311 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5A-030311

LLI Sample # WW 6222146
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 16:20

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9709 SDG#: DE097-09EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	60		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Butylbenzylphthalate	85-68-7	2	U	2	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	Diethylphthalate	84-66-2	2	U	2	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	Dimethylphthalate	131-11-3	2	U	2	5		1

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Sample Description: **EB06-SA5A-030311 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5A-030311

LLI Sample # WW 6222146
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 16:20

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9709 SDG#: DE097-09EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine Dimethylphthalate, diethylphthalate and butylbenzylphthalate are reported from the TCL analysis since the recoveries of these compounds were outside of QC limits in the LCS/LCSD in the SIM analysis.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.0099	U	0.0099	0.050		1
10137	Acenaphthylene	208-96-8	0.0099	U	0.0099	0.050		1
10137	Anthracene	120-12-7	0.0099	U	0.0099	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.0099	U	0.0099	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.0099	U	0.0099	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.0099	U	0.0099	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.0099	U	0.0099	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.0099	U	0.0099	0.050		1

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Sample Description: **EB06-SA5A-030311 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5A-030311

LLI Sample # WW 6222146
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 16:20

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9709 SDG#: DE097-09EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Di-n-butylphthalate	84-74-2	0.43	J	0.050	0.99		1
10137	Chrysene	218-01-9	0.0099	U	0.0099	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.0099	U	0.0099	0.050		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.082	J	0.050	0.99		1
10137	Fluoranthene	206-44-0	0.0099	U	0.0099	0.050		1
10137	Fluorene	86-73-7	0.0099	U	0.0099	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0099	U	0.0099	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.0099	U	0.0099	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.0099	U	0.0099	0.050		1
10137	Naphthalene	91-20-3	0.031	J	0.030	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.0099	U	0.0099	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.050	U	0.050	0.99		1
10137	Phenanthrene	85-01-8	0.041	J	0.0099	0.050		1
10137	Pyrene	129-00-0	0.0099	U	0.0099	0.050		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .054 ug/l. The blank value was not subtracted from the analytical result.							
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.099	U	0.099	0.49		1
10227	Aroclor 5442	12642-23-8	0.099	U	0.099	0.49		1
10227	Aroclor 5460	11126-42-4	0.099	U	0.099	0.49		1
10227	PCB-1016	12674-11-2	0.099	U	0.099	0.49		1
10227	PCB-1221	11104-28-2	0.099	U	0.099	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.099	U	0.099	0.49		1
10227	PCB-1248	12672-29-6	0.099	U	0.099	0.49		1
10227	PCB-1254	11097-69-1	0.099	U	0.099	0.49		1
10227	PCB-1260	11096-82-5	0.099	U	0.099	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB06-SA5A-030311 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5A-030311

LLI Sample # WW 6222146
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 16:20

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9709 SDG#: DE097-09EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050	U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110631AA	03/04/2011 15:51	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110661AA	03/07/2011 10:56	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110631AA	03/04/2011 15:51	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110661AA	03/07/2011 10:56	Jason M Long	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB06-SA5A-030311 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5A-030311

LLI Sample # WW 6222146
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 16:20

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9709 SDG#: DE097-09EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	11067WAB026	03/21/2011 05:06	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11066WAD026	03/16/2011 03:01	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11067WAB026	03/08/2011 19:45	Karen L Beyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11066WAD026	03/07/2011 16:45	JoElla L Rice	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110670006A	03/11/2011 15:58	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	110670006A	03/08/2011 17:00	JoElla L Rice	1
01743	Aluminum	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
08014	Boron	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
01750	Calcium	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
01754	Iron	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
01756	Lithium	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
01757	Magnesium	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
07058	Manganese	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
01762	Potassium	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
01767	Sodium	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
08068	Strontium	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
07069	Tin	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
07070	Titanium	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
10144	Zirconium	SW-846 6010B	1	110681848003	03/10/2011 19:47	John P Hook	1
06024	Antimony	SW-846 6020	1	110686050002A	03/15/2011 14:44	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	110686050002A	03/15/2011 14:44	Choon Y Tian	1
06026	Barium	SW-846 6020	1	110686050002D	03/15/2011 14:44	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	110686050002A	03/15/2011 14:44	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	110686050002A	03/15/2011 14:44	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	110686050002A	03/15/2011 14:44	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	110686050002A	03/15/2011 14:44	Choon Y Tian	1
06033	Copper	SW-846 6020	1	110686050002A	03/15/2011 14:44	Choon Y Tian	1
06035	Lead	SW-846 6020	1	110686050002A	03/15/2011 14:44	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	110686050002C	03/15/2011 14:44	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	110686050002A	03/15/2011 14:44	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	110686050002B	03/15/2011 14:44	Choon Y Tian	1
06042	Silver	SW-846 6020	1	110686050002A	03/15/2011 14:44	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	110686050002A	03/15/2011 14:44	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	110686050002A	03/15/2011 14:44	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	110686050002A	03/15/2011 14:44	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	110685713003	03/09/2011 20:13	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110681848003	03/10/2011 09:32	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110686050002	03/10/2011 09:30	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110685713003	03/09/2011 15:30	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11073196601C	03/14/2011 23:08	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11069199402A	03/11/2011 08:31	Carrie E Miller	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11063199401A	03/04/2011 11:37	Carrie E Miller	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-030311 Water
SSFL Area IV Collocated Soil Sampling
TB-030311

LLI Sample # WW 6222147
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 16:30

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9710 SDG#: DE097-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-030311 Water**
SSFL Area IV Collocated Soil Sampling
TB-030311

LLI Sample # WW 6222147
LLI Group # 1235800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 16:30

Submitted: 03/04/2011 09:15
Reported: 04/04/2011 11:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9710 SDG#: DE097-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110631AA	03/04/2011 16:11	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110661AA	03/07/2011 11:16	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110631AA	03/04/2011 16:11	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110661AA	03/07/2011 11:16	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11072B20A	03/14/2011 12:10	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11072B20A	03/14/2011 12:10	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110671AA	Sample number(s): 6222138,6222140,6222142,6222144-6222145									
Acetone	6.7	U	6.7	8.0	ug/kg	100	100	32-209	0	30
Benzene	0.10	U	0.10	4.0	ug/kg	103	103	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103	101	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	121	119	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94	94	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	86	86	70-120	0	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	74	74	32-162	0	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	99	99	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	108	107	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	113	110	75-120	3	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	104	102	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	96	96	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	98	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	75	75	37-154	0	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	99	101	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	102	100	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	74	76	54-132	3	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	105	103	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	101	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	75	67	22-131	11	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	99	99	58-120	0	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	90	88	77-120	3	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	101	99	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99	98	80-120	0	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100	97	79-120	3	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101	99	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	98	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	63	61	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	102	101	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	100	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112	110	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102	101	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	105	103	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	99	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102	100	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	96	95	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	102	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92	92	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91	90	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	102	100	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	115	114	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	98	90	78-120	9	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	100	98	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	105	105	45-155	0	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	102	100	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	110	108	75-120	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	98	99	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	102	102	61-134	1	30
Methylene Chloride	0.29	J	0.24	4.0	ug/kg	108	107	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	111	110	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	97	95	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	95	93	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	105	105	71-123	0	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99	97	77-120	2	30
Toluene	0.19	J	0.08	4.0	ug/kg	103	101	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95	94	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	96	95	68-120	0	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95	95	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101	98	80-120	3	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99	99	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	92	90	58-133	2	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	107	105	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	108	106	79-120	2	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107	105	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	82	80	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99	98	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	99	96	80-120	3	30
Batch number: E110631AA	Sample number(s): 6222138,6222140,6222142,6222144-6222145									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	103	70-130	1	30
Batch number: E110661AA	Sample number(s): 6222146-6222147									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105	117	80-123	11	30
Batch number: Y110631AA	Sample number(s): 6222146-6222147									
Acetone	6	U	6.	20	ug/l	96	92	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	96	96	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	98	101	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	98	97	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	96	93	80-120	3	30
Bromoform	1	U	1.	5	ug/l	75	76	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	91	90	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	107	105	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	98	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	99	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	96	95	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	98	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	86	85	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	115	117	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	102	99	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	85	85	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	101	102	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	101	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	64	62	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	86	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	86	87	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	98	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	100	100	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	96	97	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	95	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	77	74	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	100	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	111	109	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	89	87	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	101	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	102	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	95	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	101	99	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	95	96	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	96	96	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	0	30
Freon 113	2	U	2.	10	ug/l	84	82	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	92	90	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	86	89	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	103	101	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	95	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	97	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	101	101	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	93	93	80-120	0	30
n-Propylbenzene	1	U	1.	5	ug/l	102	103	80-120	1	30
Styrene	1	U	1.	5	ug/l	90	89	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	95	92	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	99	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	90	91	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	94	94	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	86	88	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	91	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	86	85	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	98	98	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	97	97	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	91	88	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	104	103	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	101	101	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	99	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	85	83	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	91	92	80-120	0	30
Batch number: 11066WAD026	Sample number(s): 6222146									
Acenaphthene	0.010	U	0.010	0.050	ug/l	94	103	74-109	9	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	90	98	70-110	9	30
Anthracene	0.010	U	0.010	0.050	ug/l	92	101	66-111	9	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	93	102	72-114	8	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	93	100	60-127	8	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	100	98	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	94	107	57-131	13	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	95	111	59-130	15	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	75	88	74-131	16	30
Chrysene	0.010	U	0.010	0.050	ug/l	94	102	76-116	8	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	93	102	55-134	9	30
Bis(2-Ethylhexyl)phthalate	0.054	J	0.050	1.0	ug/l	97	107	57-154	9	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	94	102	75-116	8	30
Fluorene	0.010	U	0.010	0.050	ug/l	95	102	75-114	7	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	94	103	69-124	9	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	92	100	71-117	9	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	82	90	75-115	9	30
Naphthalene	0.030	U	0.030	0.050	ug/l	83	91	72-109	9	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	58	62	36-89	6	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	102	109	57-145	7	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	93	101	76-111	8	30
Pyrene	0.010	U	0.010	0.050	ug/l	91	99	69-118	8	30
Batch number: 11067WAB026	Sample number(s): 6222146									
Aniline	1	U	1.	5	ug/l	71	75	49-101	5	30
Benzidine	20	U	20.	60	ug/l	59	66	34-117	11	30
Benzoic acid	6	U	6.	15	ug/l	31	13	10-69	78*	30
Benzyl alcohol	5	U	5.	15	ug/l	74	73	66-97	0	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	96	93	82-117	4	30
Butylbenzylphthalate	2	U	2.	5	ug/l	97	95	77-115	1	30
Carbazole	1	U	1.	5	ug/l	92	92	81-114	0	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	88	86	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	53	69	42-124	26	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	93	92	74-124	1	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	92	92	77-108	0	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	92	92	62-127	0	30
2-Chloronaphthalene	2	U	2.	5	ug/l	84	84	54-132	0	30
2-Chlorophenol	1	U	1.	5	ug/l	92	90	77-108	3	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	95	94	82-111	1	30
Dibenzofuran	1	U	1.	5	ug/l	94	94	83-108	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	86	84	55-118	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	84	84	50-119	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	83	84	53-119	0	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	47*	62	49-111	28	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	95	92	80-109	2	30
Diethylphthalate	2	U	2.	5	ug/l	79	79	75-119	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	92	90	72-110	2	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	98	96	70-130	2	30
Dimethylphthalate	2	U	2.	5	ug/l	52	52	39-126	1	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	82	81	78-119	1	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	72	71	52-131	1	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	86	89	81-115	3	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	90	89	85-115	0	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	102	99	78-116	3	30
Hexachlorobenzene	1	U	1.	5	ug/l	98	95	81-118	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	87	85	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	67	69	36-118	3	30
Hexachloroethane	1	U	1.	5	ug/l	79	79	52-113	0	30
Isophorone	1	U	1.	5	ug/l	90	90	74-117	0	30
2-Methylphenol	1	U	1.	5	ug/l	83	79	64-101	6	30
4-Methylphenol	2	U	2.	5	ug/l	75	76	61-103	2	30
2-Nitroaniline	1	U	1.	5	ug/l	90	89	83-116	1	30
3-Nitroaniline	1	U	1.	5	ug/l	87	88	74-113	1	30
4-Nitroaniline	1	U	1.	5	ug/l	71	72	59-100	2	30
Nitrobenzene	1	U	1.	5	ug/l	90	89	75-109	1	30
2-Nitrophenol	1	U	1.	5	ug/l	89	90	86-120	1	30
4-Nitrophenol	10	U	10.	30	ug/l	42	38	16-78	12	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	86	87	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	97	94	67-136	3	30
Pentachlorophenol	3	U	3.	15	ug/l	85	86	53-110	2	30
Phenol	1	U	1.	5	ug/l	46	42	21-67	9	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	90	71-112	1	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	95	93	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	94	93	81-113	1	30
Batch number: 11069SLC026	Sample number(s): 6222138-6222145									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aniline	170 U		170.	500	ug/kg	74		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	37		15-121		
Benzoic acid	170 U		170.	500	ug/kg	91		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		79-117		
Di-n-butylphthalate	17	U	17.	170	ug/kg	98		79-112		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	96		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	31		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	92		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	95		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	76		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	62		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	96		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	102		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	78		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	101		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	88		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	89		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		68-105		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	95		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	88		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	93		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	90		51-117		
Phenol	17	U	17.	170	ug/kg	97		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	94		78-111		
Batch number: 11070SLA026	Sample number(s): 6222144-6222145									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	85		70-130		
Batch number: 11074SLB026	Sample number(s): 6222138-6222145									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	93		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	100		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	106		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	120		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Chrysene	0.33	U	0.33	1.7	ug/kg	100		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	121		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	99		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	120		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	92		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	123		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	91		56-121		
Batch number: 11060A34C	Sample number(s): 6222144-6222145									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69		67-119		
Batch number: 11072B20A	Sample number(s): 6222147									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	91	75-135	18	30
Batch number: 110710003A	Sample number(s): 6222144-6222145									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	116		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	121	115	54-134	5	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	120	114	54-134	5	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	112		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
HMX	100 U		100.	300	ug/kg	102		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	101		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	109		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	107		80-120		
PETN	800 U		800.	2,400	ug/kg	116		80-120		
RDX	50	U	50.	120	ug/kg	102		75-131		
Tetryl	61	U	61.	120	ug/kg	108		70-168		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 110660016A	Sample number(s): 6222144-6222145									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	100		80-126		
Batch number: 110710012A	Sample number(s): 6222145									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		85-115		
Batch number: 110670006A	Sample number(s): 6222146									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	70	70	35-84	0	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	88	92	51-128	4	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	90	90	56-135	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110760008A	Sample number(s): 6222138-6222145									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	66	78	36-106	16	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	79		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	89		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110730021A	Sample number(s): 6222144-6222145									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	115*		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	119*		66-113		
EFH (C21-C30)	0.45	J	0.40	1.2	mg/kg	126*		66-113		
EFH (C30 - C40)	1.3		0.40	1.2	mg/kg	116*		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	95		66-113		
Batch number: 110660018A	Sample number(s): 6222144-6222145									
Diethylene glycol	5.0	U	5.0	13	mg/kg	114		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	94		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	100		75-125		
Batch number: 110680024A	Sample number(s): 6222144-6222145									
Ethanol	100 U		100.	500	ug/kg	98		75-112		
Isopropanol	100 U		100.	500	ug/kg	100		75-125		
Methanol	100 U		100.	500	ug/kg	91		75-134		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110730020A	Sample number(s): 6222144-6222145								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	80		75-125		
Batch number: 110681848003	Sample number(s): 6222146								
Aluminum	0.0834 U	0.0834	0.200	mg/l	100	102	90-112	2	20
Boron	0.0138 U	0.0138	0.0500	mg/l	97	97	90-110	1	20
Calcium	0.0702 U	0.0702	0.200	mg/l	101	101	90-112	0	20
Iron	0.0522 U	0.0522	0.200	mg/l	104	107	90-112	2	20
Lithium	0.0049 J	0.0024	0.0200	mg/l	101	101	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	100	100	89-110	0	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	102	103	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	101	101	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	100	100	85-115	0	20
Sodium	0.433 U	0.433	1.00	mg/l	100	99	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	104	104	90-110	0	20
Tin	0.0098 U	0.0098	0.0200	mg/l	101	100	90-110	1	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	103	102	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	105	103	80-120	1	20
Batch number: 110685713003	Sample number(s): 6222146								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	109	100	80-120	9	20
Batch number: 110686050002A	Sample number(s): 6222146								
Antimony	0.00030 U	0.00030	0.0010	mg/l	104	110	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	97	93	86-111	4	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	111	110	90-112	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	98	101	90-114	4	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	104	102	90-118	3	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	102	101	80-120	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	104	106	90-113	2	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	108	111	90-115	3	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	105	90-113	3	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	104	105	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	98	101	89-116	3	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	106	104	80-120	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	107	105	80-120	1	20
Batch number: 110686050002B	Sample number(s): 6222146								
Selenium	0.00025 U	0.00025	0.0020	mg/l	106	107	85-114	1	20
Batch number: 110686050002C	Sample number(s): 6222146								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	102	80-120	3	20
Batch number: 110686050002D	Sample number(s): 6222146								
Barium	0.00053 U	0.00053	0.0020	mg/l	103	101	88-113	1	20
Batch number: 110691026001A	Sample number(s): 6222138-6222145								
Antimony	0.0600 U	0.0600	0.200	mg/kg	65		11-208		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	102		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	104		82-118		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	98		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	102		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	104		82-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Copper	0.169	J	0.0660	0.400	mg/kg	101		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	98		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	104		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	102		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	104		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	98		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	99		78-122		
Batch number: 110691026001B	Sample number(s): 6222138-6222145									
Selenium	0.0400	U	0.0400	0.400	mg/kg	100		79-122		
Batch number: 110691026001C	Sample number(s): 6222138-6222145									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	102		78-122		
Batch number: 110691026001D	Sample number(s): 6222138-6222145									
Barium	0.108	U	0.108	0.400	mg/kg	102		79-121		
Batch number: 110695708002	Sample number(s): 6222138-6222145									
Aluminum	6.34	J	4.84	19.2	mg/kg	93		61-110		
Boron	0.856	U	0.856	4.81	mg/kg	95		78-110		
Calcium	10.2	J	5.89	19.2	mg/kg	95		88-110		
Iron	5.30	J	4.53	19.2	mg/kg	84		61-110		
Lithium	0.21	U	0.21	1.9	mg/kg	100		80-120		
Magnesium	2.85	J	2.44	9.62	mg/kg	95		82-110		
Manganese	0.0750	U	0.0750	0.481	mg/kg	102		81-119		
Phosphorus	1.24	J	0.538	9.62	mg/kg	102		80-120		
Potassium	17.3	U	17.3	48.1	mg/kg	95		78-110		
Sodium	35.9	U	35.9	96.2	mg/kg	92		87-110		
Strontium	0.0596	U	0.0596	0.481	mg/kg	97		79-121		
Tin	1.30	J	0.962	9.62	mg/kg	94		90-114		
Titanium	0.365	U	0.365	0.962	mg/kg	84		80-120		
Zirconium	0.808	U	0.808	4.81	mg/kg	100		80-120		
Batch number: 110695711001	Sample number(s): 6222138-6222145									
Mercury	0.0028	U	0.0028	0.0968	mg/kg	99		88-123		
Batch number: 11063199401A	Sample number(s): 6222146									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	100	99	90-110	1	20
Batch number: 11067495201A	Sample number(s): 6222138									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	109		85-115		
Batch number: 11067495201B	Sample number(s): 6222139-6222145									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	109		85-115		
Batch number: 11068243201A	Sample number(s): 6222138-6222145									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 11069199402A	Sample number(s): 6222146									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	110	108	85-115	2	20
Batch number: 11073102201A	Sample number(s): 6222144-6222145									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11073196601C	Sample number(s): 6222146									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	98	98	90-110	0	20
Batch number: 11075075201B	Sample number(s): 6222138-6222145									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	107		90-110		
Batch number: 11067039401B	Sample number(s): 6222138									
18a pH by 9045C						100		95-105		
Batch number: 11067039402A	Sample number(s): 6222139-6222145									
18a pH by 9045C						100		95-105		
Batch number: 11067182101B	Sample number(s): 6222138									
32a OR Potential						100		98-102		
Batch number: 11067182102A	Sample number(s): 6222139-6222145									
32a OR Potential						100		98-102		
Batch number: 11067162401B	Sample number(s): 6222138-6222143									
Moisture Content by 160.3						100		80-120		
Batch number: 11077162401A	Sample number(s): 6222144-6222145									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11069SLC026	Sample number(s): 6222138-6222145 UNSPK: P220827								
Aniline	46	63	35-95	31*	30				
Benzidine	18*	24*	35-141	30	30				
Benzoic acid	54	70	10-173	25	30				
Benzyl alcohol	72	93	67-115	26	30				
4-Bromophenyl-phenylether	70	88	67-129	23	30				
Di-n-butylphthalate	73	91	67-123	21	30				
Carbazole	72	90	64-120	22	30				
4-Chloro-3-methylphenol	72*	93	76-110	25	30				
4-Chloroaniline	37	47	23-95	23	30				
bis(2-Chloroethoxy)methane	74*	91	75-104	20	30				
bis(2-Chloroethyl)ether	69	88	60-116	24	30				
bis(2-Chloroisopropyl)ether	71	89	55-142	22	30				
2-Chloronaphthalene	59	75	50-141	24	30				
2-Chlorophenol	72*	94	73-121	26	30				
4-Chlorophenyl-phenylether	74*	93	80-109	22	30				
Dibenzofuran	73	93	71-112	23	30				
1,2-Dichlorobenzene	67	83	66-108	21	30				
1,3-Dichlorobenzene	64	80	63-109	21	30				
1,4-Dichlorobenzene	65*	80	70-100	20	30				
3,3'-Dichlorobenzidine	27	41	16-119	42*	30				
2,4-Dichlorophenol	73*	95	78-117	26	30				
2,4-Dimethylphenol	70*	91	78-110	25	30				
3,5-Dimethylphenol	78	100	70-130	25	30				
4,6-Dinitro-2-methylphenol	61	74	24-116	19	30				
2,4-Dinitrophenol	52	62	20-143	19	30				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrotoluene	72*	92	73-113	24	30				
2,6-Dinitrotoluene	71	92	69-123	25	30				
1,2-Diphenylhydrazine	76	95	71-129	22	30				
bis(2-Ethylhexyl)phthalate	73	95	63-122	25	30				
Hexachlorobenzene	74*	92	77-114	21	30				
Hexachlorobutadiene	66	84	62-120	25	30				
Hexachlorocyclopentadiene	61	78	10-153	24	30				
Hexachloroethane	63	80	57-109	24	30				
Isophorone	69*	89	73-102	24	30				
2-Methylphenol	72*	93	75-111	25	30				
4-Methylphenol	71	91	71-111	25	30				
2-Nitroaniline	71	90	67-125	23	30				
3-Nitroaniline	68	85	59-122	22	30				
4-Nitroaniline	56	72	52-112	26	30				
Nitrobenzene	68*	89	72-106	26	30				
2-Nitrophenol	66*	87	74-115	27	30				
4-Nitrophenol	70	90	54-113	25	30				
N-Nitroso-di-n-propylamine	68	89	60-116	27	30				
N-Nitrosodiphenylamine	73*	93	86-145	23	30				
Pentachlorophenol	62	79	28-127	24	30				
Phenol	72	94	58-126	26	30				
1,2,4-Trichlorobenzene	69*	87	72-115	22	30				
2,4,5-Trichlorophenol	74*	92	78-109	22	30				
2,4,6-Trichlorophenol	70*	90	77-115	24	30				
Batch number: 11070SLA026	Sample number(s): 6222144-6222145 UNSPK: 6222144								
N-Nitrosodimethylamine	77	72	70-130	6	30				
Batch number: 11074SLB026	Sample number(s): 6222138-6222145 UNSPK: 6222138								
Acenaphthene	96	96	63-105	1	30				
Acenaphthylene	97	96	67-114	1	30				
Anthracene	101	101	60-122	0	30				
Benzo(a)anthracene	104	102	59-128	2	30				
Benzo(a)pyrene	110	110	45-138	0	30				
Benzo(b)fluoranthene	114	121	43-155	6	30				
Benzo(g,h,i)perylene	115	126	33-141	9	30				
Benzo(k)fluoranthene	113	103	42-144	10	30				
Butylbenzylphthalate	114	104	57-173	9	30				
Chrysene	103	102	48-134	2	30				
Dibenz(a,h)anthracene	120	128	22-133	7	30				
Diethylphthalate	111	102	70-136	9	30				
Dimethylphthalate	110	111	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	117	107	39-167	9	30				
Fluoranthene	111	104	26-166	6	30				
Fluorene	105	101	66-122	3	30				
Indeno(1,2,3-cd)pyrene	117	126	21-143	7	30				
1-Methylnaphthalene	99	99	72-123	0	30				
2-Methylnaphthalene	90	90	64-103	0	30				
Naphthalene	98	98	61-102	0	30				
N-Nitrosodimethylamine	99	97	48-113	2	30				
Di-n-octylphthalate	124	115	40-192	8	30				
Phenanthrene	98	98	12-165	0	30				
Pyrene	90	87	15-153	4	30				

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Quality Control Summary

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Reported: 04/04/11 at 11:37 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11060A34C	Sample number(s): 6222144-6222145 UNSPK: P214502								
9a TPH by EPA 8015B Gas C5-C12	105	108	39-118	4	30				
Batch number: 110710003A	Sample number(s): 6222144-6222145 UNSPK: 6222144								
4-Amino-2,6-Dinitrotoluene	89	92	80-127	3	50				
2-Amino-4,6-Dinitrotoluene	87	89	80-137	2	50				
1,3-Dinitrobenzene	90	92	38-166	3	50				
2,4-Dinitrotoluene	87	89	80-131	3	50				
2,6-Dinitrotoluene	91	93	80-127	2	50				
HMX	75	77	63-128	2	50				
Nitrobenzene	88	91	80-125	4	50				
Nitroglycerin	83	85	80-120	3	50				
2-Nitrotoluene	90	91	80-122	1	50				
3-Nitrotoluene	90	91	72-119	1	50				
4-Nitrotoluene	88	90	80-125	2	50				
PETN	89	91	80-121	3	50				
RDX	74*	77	75-129	4	50				
Tetryl	75	72	55-174	4	50				
1,3,5-Trinitrobenzene	89	90	82-126	2	50				
2,4,6-Trinitrotoluene	88	91	82-130	3	50				
Batch number: 110660016A	Sample number(s): 6222144-6222145 UNSPK: P214502								
25a Formaldehyde 8315A	96	91	80-120	7	50				
Batch number: 110710012A	Sample number(s): 6222145 UNSPK: P218897								
6a Perchlorate EPA 6850	105	105	80-120	0	20				
Batch number: 110760008A	Sample number(s): 6222138-6222145 UNSPK: P220827								
PCB-1016	84	82	29-146	2	50				
PCB-1260	102	98	39-149	4	50				
Batch number: 110730021A	Sample number(s): 6222144-6222145 UNSPK: P224306								
EFH (C12-C14)	111	102	49-123	8	20				
EFH (C15-C20)	131*	121	49-123	8	20				
EFH (C21-C30)	113	121	49-123	5	20				
EFH (C30 - C40)	35*	156*	49-123	51*	20				
EFH (C8-C11)	107	108	49-123	1	20				
Batch number: 110660018A	Sample number(s): 6222144-6222145 UNSPK: 6222144								
Diethylene glycol	97	100	59-109	3	20				
Ethylene glycol	84	85	63-107	1	20				
Propylene glycol	91	89	63-107	2	20				
Batch number: 110680024A	Sample number(s): 6222144-6222145 UNSPK: P224306								
Ethanol	82	81	24-143	1	20				
Isopropanol	86	85	75-125	1	20				
Methanol	80	80	45-136	0	20				
Batch number: 110730020A	Sample number(s): 6222144-6222145 UNSPK: 6222144								
m-Terphenyl	78	78	75-125	1	20				
o-Terphenyl	93	95	75-125	2	20				
p-Terphenyl	77	77	75-125	1	20				

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110691026001A	Sample number(s): 6222138-6222145 UNSPK: P220827 BKG: P220827								
Antimony	44*	42*	75-125	2	20	0.0734 J	0.0583 U	200* (1)	20
Arsenic	85	100	75-125	6	20	3.48	3.06	13	20
Beryllium	106	99	75-125	4	20	0.420	0.381	10 (1)	20
Cadmium	115	104	75-125	9	20	0.0467 J	0.0388 U	200* (1)	20
Chromium	89	85	75-125	1	20	10.1	8.93	12	20
Cobalt	96	93	75-125	2	20	3.63	3.47	5	20
Copper	91	90	75-125	0	20	3.89	4.34	11	20
Lead	104	89	75-125	6	20	3.63	3.80	5	20
Nickel	94	97	75-125	3	20	5.64	5.52	2	20
Silver	115	105	75-125	8	20	0.0131 J	0.0204 J	43* (1)	20
Thallium	104	96	75-125	4	20	0.255	0.237	7 (1)	20
Vanadium	72*	79	75-125	2	20	23.0	21.6	6	20
Zinc	44 (2)	18 (2)	75-125	4	20	54.8	49.2	11	20
Batch number: 110691026001B	Sample number(s): 6222138-6222145 UNSPK: P220827 BKG: P220827								
Selenium	102	95	75-125	6	20	0.105 J	0.0942 J	11 (1)	20
Batch number: 110691026001C	Sample number(s): 6222138-6222145 UNSPK: P220827 BKG: P220827								
Molybdenum	107	100	75-125	6	20	0.316	0.294	7 (1)	20
Batch number: 110691026001D	Sample number(s): 6222138-6222145 UNSPK: P220827 BKG: P220827								
Barium	70 (2)	77 (2)	75-125	1	20	65.1	61.2	6	20
Batch number: 110695708002	Sample number(s): 6222138-6222145 UNSPK: P220827 BKG: P220827								
Aluminum	1083 (2)	1307 (2)	75-125	3	20	10,200	9,170	11	20
Boron	98	97	84-115	1	20	2.03 J	2.01 J	1 (1)	20
Calcium	752 (2)	74 (2)	75-125	72*	20	1,990	1,690	16	20
Iron	-300 (2)	-82 (2)	75-125	1	20	15,400	14,200	8	20
Lithium	101	99	82-114	2	20	21.3	19.7	7	20
Magnesium	207 (2)	118 (2)	75-125	5	20	3,130	2,920	7	20
Manganese	45 (2)	41 (2)	75-125	1	20	207	209	1	20
Phosphorus	118	41*	75-125	20	20	289	243	18	20
Potassium	130*	108	75-125	6	20	2,340	2,330	0	20
Sodium	94	95	75-125	0	20	91.6 J	82.9 J	10 (1)	20
Strontium	100	99	75-115	2	20	10.5	9.04	15	20
Tin	88	87	80-110	1	20	2.51 J	2.33 J	8 (1)	20
Titanium	228 (2)	162 (2)	75-125	6	20	887	858	3	20
Zirconium	99	98	75-125	2	20	0.824 U	0.938 J	200* (1)	20
Batch number: 110695711001	Sample number(s): 6222138-6222145 UNSPK: P220827 BKG: P220827								
Mercury	97	96	65-135	2	20	0.0027 U	0.0027 U	0 (1)	20
Batch number: 11067495201A	Sample number(s): 6222138 UNSPK: P216870 BKG: P216870								
7a Perchlorate EPA 314.0	107		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11067495201B	Sample number(s): 6222139-6222145 UNSPK: 6222139 BKG: 6222139								
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11068243201A	Sample number(s): 6222138-6222145 UNSPK: P220827 BKG: P220827								

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
3a Cr VI by EPA 7199	91		75-125			0.20	U	0.34	J	200* (1)	20
Batch number: 11073102201A	Sample number(s): 6222144-6222145 UNSPK: 6222144 BKG: 6222144										
17a Cyanide by 9012B	105		75-125			0.17	U	0.17	U	0 (1)	20
Batch number: 11075075201B	Sample number(s): 6222138-6222145 UNSPK: 6222138 BKG: 6222138										
11a Anions by 300.0 - Fluoride	76*		80-120			1.5		1.5		1 (1)	20
11a Anions by 300.0 - Nitrate	103		80-120			5.7		5.5		5 (1)	20
Batch number: 11067039401B	Sample number(s): 6222138 BKG: P220827										
18a pH by 9045C						7.99		7.99		0	1
Batch number: 11067039402A	Sample number(s): 6222139-6222145 BKG: 6222139										
18a pH by 9045C						7.15		7.14		0	1
Batch number: 11067182101B	Sample number(s): 6222138 BKG: P220827										
32a OR Potential						429		430		0	6
Batch number: 11067182102A	Sample number(s): 6222139-6222145 BKG: 6222139										
32a OR Potential						332		333		0	6
Batch number: 11067162401B	Sample number(s): 6222138-6222143 BKG: 6222141										
Moisture Content by 160.3						11.9		11.6		2	20
Batch number: 11077162401A	Sample number(s): 6222144-6222145 BKG: P226876										
Moisture Content by 160.3						13.6		13.7		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110671AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6222138	96	94	103	93
6222140	98	99	98	95
6222142	97	99	100	93
6222144	97	99	100	94
6222145	97	97	99	95
Blank	99	99	98	96
LCS	100	104	102	100
LCSD	100	104	101	99
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110631AA

	Toluene-d8

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Surrogate Quality Control

6222138	96
6222140	96
6222142	97
6222144	96
6222145	97
Blank	97
LCS	97
LCSD	96
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110661AA

	Toluene-d8
6222146	97
6222147	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110631AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6222146	104	98	103	100
6222147	104	98	104	99
Blank	102	97	104	100
LCS	104	100	105	100
LCSD	104	101	104	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11066WAD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6222146	105	92	91
Blank	89	80	89
LCS	98	87	87
LCSD	107	94	96
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11067WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6222146	51	32	82	87	96	89
Blank	64	42	87	86	94	92
LCS	66	42	94	89	99	93
LCSD	61	37	95	88	98	92
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11069SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6222138	88	91	86	83	90	86
6222139	92	95	93	86	93	90
6222140	90	92	87	82	92	90
6222141	86	88	89	79	89	89
6222142	93	95	85	83	94	91
6222143	86	86	86	77	86	87
6222144	93	95	89	85	93	93
6222145	91	90	91	79	90	92
Blank	82	83	84	77	82	81
LCS	98	98	100	88	94	90
MS	74	74	74	67	71	68
MSD	96	97	96	87	91	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11070SLA026

	N-Nitrosodimethylamine-d6
6222144	103
6222145	82
Blank	85
LCS	83
MS	85
MSD	88
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11074SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6222138	96	89	89
6222139	92	91	95
6222140	97	76	92
6222141	92	93	88
6222142	99	94	91
6222143	88	83	86
6222144	101	91	86
6222145	92	87	87
Blank	98	93	100
LCS	97	91	94
MS	103	94	93
MSD	102	95	90
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11060A34C

	Trifluorotoluene-F

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Surrogate Quality Control

6222144	87
6222145	72
Blank	86
LCS	88
MS	109
MSD	107
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11072B20A

	Trifluorotoluene-F
6222147	79
Blank	78
LCS	101
LCSD	98
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110660016A

	Butyraldehyde
6222144	114
6222145	109
Blank	93
LCS	95
MS	100
MSD	85
Limits:	64-126

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110670006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6222146	83	72
Blank	92	86
LCS	92	83
LCSD	98	78
Limits:	30-150	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 110710003A

	2-Nitro-m-xylene
6222144	109
6222145	108
Blank	115
LCS	124
LCSD	114
MS	103
MSD	99
Limits:	80-146

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Surrogate Quality Control

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110760008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6222138	89	134*
6222139	92	93
6222140	92	83
6222141	93	98
6222142	89	86
6222143	85	91
6222144	92	92
6222145	91	91
Blank	77	95
LCS	83	94
LCSD	87	103
MS	85	101
MSD	82	94
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110660018A

	Tetramethylene glycol
6222144	56
6222145	57
Blank	104
LCS	105
MS	94
MSD	98
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 110680024A

	Acetone
6222144	87
6222145	80
Blank	91
LCS	89
MS	78
MSD	76
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110730020A

	n-Triacontane-d62
6222144	78
6222145	73
Blank	87
LCS	78
MS	74
MSD	73

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235800
Reported: 04/04/11 at 11:37 AM

Surrogate Quality Control

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110730021A

	Chlorobenzene	Orthoterphenyl
6222144	81	114
6222145	79	113
Blank	80	114
LCS	86	117
MS	82	116
MSD	79	106
Limits:	37-125	47-145

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1235800 Samp6# 6222138-47

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on self in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-234-SA5A-SB-4.0-5.0	3.03.11	1553	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-234-SA5A-SB-4.5	3.03.11	1548	SOIL	NONE	4-Encores									X	X												
SL-234-SA5A-SB-9.0-10.0	3.03.11	1555	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-235-SA5A-SB-4.0-5.0	3.03.11	1433	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-235-SA5A-SB-4.5	3.03.11	1428	SOIL	NONE	4-Encores									X	X												
SL-235-SA5A-SB-8.5-9.5	3.03.11	1438	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-236-SA5A-SB-4.0-5.0	3.03.11	0953	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-236-SA5A-SB-4.5	3.03.11	0948	SOIL	NONE	4-Encores									X	X												
SL-236-SA5A-SB-9.0-10.0	3.03.11	0958	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X															
SL-249-SA5A-SB-2.5-3.5	3.03.11	1200	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-249-SA5A-SB-3.0	3.03.11	1155	SOIL	NONE	5-Encores									X	X	X											
SL-249-SA5A-SB-9.0-10.0	3.03.11	1210	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-249-SA5A-SB-9.5	3.03.11	1205	SOIL	NONE	5-Encores									X	X	X											
EB06-SA5A-030311	3.03.11	1620	WATER	HCl	6-40 mL vials									X	X												subsurface rinsate blank
EB06-SA5A-030311	3.03.11	1620	WATER	NONE	4-1 L ambers			X	X	X																	subsurface rinsate blank
EB06-SA5A-030311	3.03.11	1620	WATER	HNO3	1-500 mL poly	X																					subsurface rinsate blank
EB06-SA5A-030311	3.03.11	1620	WATER	NONE	1-500 mL poly		X				X	X		X	X												subsurface rinsate blank
~~TB-030311~~ TB-030311	3.03.11	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 03/03/2011 / 17:00

Received for Laboratory by: (Signature) — Date/Time: 3/14/11 915

Received by: (Signature) — Date/Time:

Airbill No.(s): 8700 5935 4031; 8700 5935 4075

Laboratory: Lancaster Laboratories, Inc.

SUB-SURFACE

Tripblank ID was updated per PB. NLM 3/10/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 29, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/04/2011
Group Number: 1235806
SDG: DX060
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-234-SA5A-SB-4.0-5.0 Soil	6222156
SL-234-SA5A-SB-9.0-10.0 Soil	6222157
SL-235-SA5A-SB-4.0-5.0 Soil	6222158
SL-235-SA5A-SB-8.5-9.5 Soil	6222159
SL-236-SA5A-SB-4.0-5.0 Soil	6222160
SL-236-SA5A-SB-9.0-10.0 Soil	6222161
SL-249-SA5A-SB-2.5-3.5 Soil	6222162
SL-249-SA5A-SB-9.0-10.0 Soil	6222163
EB06-SA5A-030311 Water	6222164

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-234-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-4.0-5.0

LLI Sample # SW 6222156
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:53

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6014 SDG#: DX060-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-234-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-4.0-5.0

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X6014 SDG#: DX060-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.00951 U	0.00951	1.08	1
11031	12378-PeCDD	40321-76-4	0.0281 JBQ	0.0107	5.41	1
11031	123478-HxCDD	39227-28-6	0.0155 U	0.0155	5.41	1
11031	123678-HxCDD	57653-85-7	0.110 JBQ	0.0151	5.41	1
11031	123789-HxCDD	19408-74-3	0.288 JB	0.0138	5.41	1
11031	1234678-HpCDD	35822-46-9	0.276 JB	0.0196	5.41	1
11031	OCDD	3268-87-9	1.09 JB	0.0285	10.8	1
11031	2378-TCDF	51207-31-9	0.0117 JQ	0.00778	1.08	1
11031	12378-PeCDF	57117-41-6	0.0629 JBQ	0.00530	5.41	1
11031	23478-PeCDF	57117-31-4	0.0686 JB	0.00584	5.41	1
11031	123478-HxCDF	70648-26-9	0.0371 JBQ	0.0203	5.41	1
11031	123678-HxCDF	57117-44-9	0.0600 JB	0.0134	5.41	1
11031	123789-HxCDF	72918-21-9	0.193 JB	0.0120	5.41	1
11031	234678-HxCDF	60851-34-5	0.114 JB	0.0101	5.41	1
11031	1234678-HpCDF	67562-39-4	0.218 JB	0.0118	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0656 JBQ	0.0142	5.41	1
11031	OCDF	39001-02-0	0.332 JB	0.0297	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-234-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-4.0-5.0

LLI Sample # SW 6222156
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:53

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6014 SDG#: DX060-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-234-SA5A-SB-4.0-5.0 Soil**
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SL-234-SA5A-SB-4.0-5.0

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Suite 210
Chantilly VA 20151

X6014 SDG#: DX060-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11076001	03/19/2011 18:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11076001	03/17/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401B	03/08/2011 17:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-234-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-9.0-10.0

LLI Sample # SW 6222157
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:55

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6015 SDG#: DX060-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-234-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-9.0-10.0

LLI Sample # SW 6222157
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X6015 SDG#: DX060-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0138 JBQ	0.0120	1.12	1
11031	12378-PeCDD	40321-76-4	0.0106 JBQ	0.0104	5.61	1
11031	123478-HxCDD	39227-28-6	0.0136 JBQ	0.0113	5.61	1
11031	123678-HxCDD	57653-85-7	0.0181 JBQ	0.0117	5.61	1
11031	123789-HxCDD	19408-74-3	0.0222 JBQ	0.0111	5.61	1
11031	1234678-HpCDD	35822-46-9	0.273 JB	0.0196	5.61	1
11031	OCDD	3268-87-9	0.631 JB	0.0277	11.2	1
11031	2378-TCDF	51207-31-9	0.00897 U	0.00897	1.12	1
11031	12378-PeCDF	57117-41-6	0.0151 JBQ	0.00605	5.61	1
11031	23478-PeCDF	57117-31-4	0.0815 JBQ	0.00673	5.61	1
11031	123478-HxCDF	70648-26-9	0.0596 JBQ	0.0122	5.61	1
11031	123678-HxCDF	57117-44-9	0.0370 JBQ	0.00942	5.61	1
11031	123789-HxCDF	72918-21-9	0.0472 JBQ	0.0129	5.61	1
11031	234678-HxCDF	60851-34-5	0.106 JB	0.00987	5.61	1
11031	1234678-HpCDF	67562-39-4	0.261 JB	0.00930	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0164 U	0.0164	5.61	1
11031	OCDF	39001-02-0	0.309 JB	0.0302	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	89	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	107	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-234-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-9.0-10.0

LLI Sample # SW 6222157
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6015 SDG#: DX060-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-234-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5A-SB-9.0-10.0

LLI Sample # SW 6222157
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 15:55

Submitted: 03/04/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6015 SDG#: DX060-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11076001	03/19/2011 19:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11076001	03/17/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401B	03/08/2011 17:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-235-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-4.0-5.0

LLI Sample # SW 6222158
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:33

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6016 SDG#: DX060-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-235-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-4.0-5.0

LLI Sample # SW 6222158
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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X6016 SDG#: DX060-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0108	U	0.0108	1.13	1
11031	12378-PeCDD	40321-76-4	0.0239	JBQ	0.0130	5.65	1
11031	123478-HxCDD	39227-28-6	0.0258	JBQ	0.0235	5.65	1
11031	123678-HxCDD	57653-85-7	0.166	JB	0.0240	5.65	1
11031	123789-HxCDD	19408-74-3	0.206	JB	0.0219	5.65	1
11031	1234678-HpCDD	35822-46-9	2.89	JB	0.0312	5.65	1
11031	OCDD	3268-87-9	43.5	B	0.0269	11.3	1
11031	2378-TCDF	51207-31-9	0.0173	J	0.0136	1.13	1
11031	12378-PeCDF	57117-41-6	0.0414	JB	0.0123	5.65	1
11031	23478-PeCDF	57117-31-4	0.171	JB	0.0139	5.65	1
11031	123478-HxCDF	70648-26-9	0.108	JB	0.0272	5.65	1
11031	123678-HxCDF	57117-44-9	0.130	JBQ	0.0221	5.65	1
11031	123789-HxCDF	72918-21-9	0.197	JB	0.0269	5.65	1
11031	234678-HxCDF	60851-34-5	0.179	JB	0.0228	5.65	1
11031	1234678-HpCDF	67562-39-4	1.26	JB	0.0160	5.65	1
11031	1234789-HpCDF	55673-89-7	0.126	JBQ	0.0240	5.65	1
11031	OCDF	39001-02-0	2.09	JB	0.0336	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-235-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-4.0-5.0

LLI Sample # SW 6222158
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6016 SDG#: DX060-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-235-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-4.0-5.0

LLI Sample # SW 6222158
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X6016 SDG#: DX060-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11076001	03/19/2011 20:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11076001	03/17/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401B	03/08/2011 17:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-235-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-8.5-9.5

LLI Sample # SW 6222159
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:38

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6017 SDG#: DX060-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-235-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-8.5-9.5

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Suite 210
Chantilly VA 20151

X6017 SDG#: DX060-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.00988 U	0.00988	1.14	1
11031	12378-PeCDD	40321-76-4	0.0128 JBQ	0.00976	5.68	1
11031	123478-HxCDD	39227-28-6	0.00953 U	0.00953	5.68	1
11031	123678-HxCDD	57653-85-7	0.0193 JB	0.00942	5.68	1
11031	123789-HxCDD	19408-74-3	0.0197 JBQ	0.00874	5.68	1
11031	1234678-HpCDD	35822-46-9	0.267 JBQ	0.0168	5.68	1
11031	OCDD	3268-87-9	0.767 JB	0.0233	11.4	1
11031	2378-TCDF	51207-31-9	0.0146 JQ	0.00863	1.14	1
11031	12378-PeCDF	57117-41-6	0.0208 JBQ	0.00556	5.68	1
11031	23478-PeCDF	57117-31-4	0.0841 JB	0.00636	5.68	1
11031	123478-HxCDF	70648-26-9	0.0371 JBQ	0.0173	5.68	1
11031	123678-HxCDF	57117-44-9	0.0338 JBQ	0.0116	5.68	1
11031	123789-HxCDF	72918-21-9	0.0407 JBQ	0.0102	5.68	1
11031	234678-HxCDF	60851-34-5	0.127 JB	0.00795	5.68	1
11031	1234678-HpCDF	67562-39-4	0.192 JB	0.00953	5.68	1
11031	1234789-HpCDF	55673-89-7	0.0738 JB	0.0125	5.68	1
11031	OCDF	39001-02-0	0.362 JB	0.0224	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-235-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-8.5-9.5

LLI Sample # SW 6222159
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:38

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6017 SDG#: DX060-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-235-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5A-SB-8.5-9.5

LLI Sample # SW 6222159
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 14:38

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6017 SDG#: DX060-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11076001	03/19/2011 21:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11076001	03/17/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401B	03/08/2011 17:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-236-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-4.0-5.0

LLI Sample # SW 6222160
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:53

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6018 SDG#: DX060-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-236-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-4.0-5.0

LLI Sample # SW 6222160
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:53

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6018 SDG#: DX060-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0101 U	0.0101	1.11	1
11031	12378-PeCDD	40321-76-4	0.0248 JBQ	0.0104	5.54	1
11031	123478-HxCDD	39227-28-6	0.0152 U	0.0152	5.54	1
11031	123678-HxCDD	57653-85-7	0.117 JB	0.0152	5.54	1
11031	123789-HxCDD	19408-74-3	0.158 JB	0.0141	5.54	1
11031	1234678-HpCDD	35822-46-9	0.426 JB	0.0197	5.54	1
11031	OCDD	3268-87-9	1.73 JB	0.0264	11.1	1
11031	2378-TCDF	51207-31-9	0.00941 U	0.00941	1.11	1
11031	12378-PeCDF	57117-41-6	0.0604 JB	0.00509	5.54	1
11031	23478-PeCDF	57117-31-4	0.0727 JBQ	0.00620	5.54	1
11031	123478-HxCDF	70648-26-9	0.0486 JBQ	0.0177	5.54	1
11031	123678-HxCDF	57117-44-9	0.0390 JBQ	0.0115	5.54	1
11031	123789-HxCDF	72918-21-9	0.181 JBQ	0.0126	5.54	1
11031	234678-HxCDF	60851-34-5	0.120 JB	0.00975	5.54	1
11031	1234678-HpCDF	67562-39-4	0.182 JB	0.00831	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0750 JBQ	0.0132	5.54	1
11031	OCDF	39001-02-0	0.325 JB	0.0272	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-236-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-4.0-5.0

LLI Sample # SW 6222160
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:53

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6018 SDG#: DX060-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-236-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-4.0-5.0

LLI Sample # SW 6222160
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:53

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6018 SDG#: DX060-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11076001	03/19/2011 21:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11076001	03/17/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401B	03/08/2011 17:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-236-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-9.0-10.0

LLI Sample # SW 6222161
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:58

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6019 SDG#: DX060-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-236-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-9.0-10.0

LLI Sample # SW 6222161
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:58

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6019 SDG#: DX060-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.00863 U	0.00863	1.12	1
11031	12378-PeCDD	40321-76-4	0.00964 U	0.00964	5.61	1
11031	123478-HxCDD	39227-28-6	0.00919 U	0.00919	5.61	1
11031	123678-HxCDD	57653-85-7	0.0188 JBQ	0.00908	5.61	1
11031	123789-HxCDD	19408-74-3	0.0275 JBQ	0.00785	5.61	1
11031	1234678-HpCDD	35822-46-9	0.179 JB	0.0151	5.61	1
11031	OCDD	3268-87-9	0.637 JB	0.0207	11.2	1
11031	2378-TCDF	51207-31-9	0.00774 U	0.00774	1.12	1
11031	12378-PeCDF	57117-41-6	0.0117 JBQ	0.00527	5.61	1
11031	23478-PeCDF	57117-31-4	0.0636 JBQ	0.00561	5.61	1
11031	123478-HxCDF	70648-26-9	0.0301 JBQ	0.0151	5.61	1
11031	123678-HxCDF	57117-44-9	0.0235 JBQ	0.0105	5.61	1
11031	123789-HxCDF	72918-21-9	0.0491 JB	0.00695	5.61	1
11031	234678-HxCDF	60851-34-5	0.0907 JBQ	0.00594	5.61	1
11031	1234678-HpCDF	67562-39-4	0.142 JBQ	0.00930	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0572 JB	0.00975	5.61	1
11031	OCDF	39001-02-0	0.238 JB	0.0243	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	33	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-236-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-9.0-10.0

LLI Sample # SW 6222161
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:58

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6019 SDG#: DX060-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-236-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5A-SB-9.0-10.0

LLI Sample # SW 6222161
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 09:58

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6019 SDG#: DX060-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11076001	03/19/2011 22:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11076001	03/17/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11067162401B	03/08/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-249-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-2.5-3.5

LLI Sample # SW 6222162
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:00

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6020 SDG#: DX060-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-249-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-2.5-3.5

LLI Sample # SW 6222162
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:00

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6020 SDG#: DX060-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.00926 U	0.00926	1.10	1
11031	12378-PeCDD	40321-76-4	0.0229 JBQ	0.0107	5.51	1
11031	123478-HxCDD	39227-28-6	0.0127 U	0.0127	5.51	1
11031	123678-HxCDD	57653-85-7	0.0829 JBQ	0.0130	5.51	1
11031	123789-HxCDD	19408-74-3	0.142 JB	0.0126	5.51	1
11031	1234678-HpCDD	35822-46-9	0.660 JB	0.0224	5.51	1
11031	OCDD	3268-87-9	4.55 JB	0.0175	11.0	1
11031	2378-TCDF	51207-31-9	0.0281 JQ	0.00860	1.10	1
11031	12378-PeCDF	57117-41-6	0.0311 JBQ	0.00474	5.51	1
11031	23478-PeCDF	57117-31-4	0.0679 JBQ	0.00507	5.51	1
11031	123478-HxCDF	70648-26-9	0.0362 JB	0.0111	5.51	1
11031	123678-HxCDF	57117-44-9	0.0538 JBQ	0.00860	5.51	1
11031	123789-HxCDF	72918-21-9	0.109 JBQ	0.0117	5.51	1
11031	234678-HxCDF	60851-34-5	0.0910 JB	0.00893	5.51	1
11031	1234678-HpCDF	67562-39-4	0.201 JB	0.00650	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0472 JBQ	0.0129	5.51	1
11031	OCDF	39001-02-0	0.379 JBQ	0.0228	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-249-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-2.5-3.5

LLI Sample # SW 6222162
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:00

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6020 SDG#: DX060-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-249-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-2.5-3.5

LLI Sample # SW 6222162
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:00

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6020 SDG#: DX060-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11076001	03/19/2011 23:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11076001	03/17/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-249-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-9.0-10.0

LLI Sample # SW 6222163
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:10

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6021 SDG#: DX060-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-249-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-9.0-10.0

LLI Sample # SW 6222163
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:10

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6021 SDG#: DX060-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0104 JBQ	0.00882	1.10	1
11031	12378-PeCDD	40321-76-4	0.0234 JBQ	0.00893	5.51	1
11031	123478-HxCDD	39227-28-6	0.0204 JBQ	0.00871	5.51	1
11031	123678-HxCDD	57653-85-7	0.0209 JBQ	0.00893	5.51	1
11031	123789-HxCDD	19408-74-3	0.0331 JBQ	0.00827	5.51	1
11031	1234678-HpCDD	35822-46-9	0.187 JBQ	0.0142	5.51	1
11031	OCDD	3268-87-9	0.525 JB	0.0176	11.0	1
11031	2378-TCDF	51207-31-9	0.0139 JQ	0.00717	1.10	1
11031	12378-PeCDF	57117-41-6	0.0263 JBQ	0.00419	5.51	1
11031	23478-PeCDF	57117-31-4	0.0794 JBQ	0.00452	5.51	1
11031	123478-HxCDF	70648-26-9	0.0518 JB	0.00838	5.51	1
11031	123678-HxCDF	57117-44-9	0.0393 JB	0.00695	5.51	1
11031	123789-HxCDF	72918-21-9	0.0432 JBQ	0.00915	5.51	1
11031	234678-HxCDF	60851-34-5	0.0882 JBQ	0.00805	5.51	1
11031	1234678-HpCDF	67562-39-4	0.202 JB	0.00573	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0244 JBQ	0.0127	5.51	1
11031	OCDF	39001-02-0	0.273 JB	0.0218	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-249-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-9.0-10.0

LLI Sample # SW 6222163
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:10

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6021 SDG#: DX060-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-249-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-249-SA5A-SB-9.0-10.0

LLI Sample # SW 6222163
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 12:10

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6021 SDG#: DX060-21

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11076001	03/20/2011 00:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11076001	03/17/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB06-SA5A-030311 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5A-030311

LLI Sample # WW 6222164
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 16:20

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6022 SDG#: DX060-22EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.124	U	0.124	1.99	1
10915	12378-PeCDD	40321-76-4	0.583	JBQ	0.154	9.97	1
10915	123478-HxCDD	39227-28-6	0.298	JBQ	0.140	9.97	1
10915	123678-HxCDD	57653-85-7	0.521	JBQ	0.140	9.97	1
10915	123789-HxCDD	19408-74-3	0.418	JB	0.132	9.97	1
10915	1234678-HpCDD	35822-46-9	4.12	JB	0.201	9.97	1
10915	OCDD	3268-87-9	9.93	JB	0.333	19.9	1
10915	2378-TCDF	51207-31-9	0.109	JBQ	0.0965	1.99	1
10915	12378-PeCDF	57117-41-6	0.401	JB	0.0967	9.97	1
10915	23478-PeCDF	57117-31-4	0.865	JBQ	0.0867	9.97	1
10915	123478-HxCDF	70648-26-9	0.897	JB	0.206	9.97	1
10915	123678-HxCDF	57117-44-9	0.857	JB	0.163	9.97	1
10915	123789-HxCDF	72918-21-9	0.625	JBQ	0.141	9.97	1
10915	234678-HxCDF	60851-34-5	1.77	JBQ	0.139	9.97	1
10915	1234678-HpCDF	67562-39-4	6.14	JB	0.169	9.97	1
10915	1234789-HpCDF	55673-89-7	0.814	JBQ	0.172	9.97	1
10915	OCDF	39001-02-0	4.34	JB	0.307	19.9	1

The recoveries of several labeled compounds were outside QC limits in this sample. Sufficient sample was not available to re-extract the sample.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	47	25 - 164
13C12-12378-PeCDD	42	25 - 181
13C12-123478-HxCDD	36	32 - 141
13C12-123678-HxCDD	37	28 - 130
13C12-123789-HxCDD	38	28 - 130
13C12-1234678-HpCDD	35	23 - 140
13C12-OCDD	31	17 - 157
13C12-2378-TCDF	47	24 - 169
13C12-12378-PeCDF	36	24 - 185
13C12-23478-PeCDF	39	21 - 178
13C12-123478-HxCDF	23	26 - 152
13C12-123678-HxCDF	28	26 - 123
13C12-234678-HxCDF	36	28 - 136
13C12-123789-HxCDF	36	29 - 147
13C12-1234678-HpCDF	26	28 - 143
13C12-1234789-HpCDF	29	26 - 138
13C12-OCDF	24	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB06-SA5A-030311 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5A-030311

LLI Sample # WW 6222164
LLI Group # 1235806
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/03/2011 16:20

Submitted: 03/04/2011 09:15
Reported: 03/29/2011 20:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6022 SDG#: DX060-22EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11068002	03/11/2011 03:53	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11068002	03/09/2011 09:15	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235806
Reported: 03/29/11 at 08:34 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11067162401B	Sample number(s): 6222156-6222161								
Moisture Content by 160.3					100		80-120		
Batch number: 11077162401A	Sample number(s): 6222162-6222163								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11068002	Sample number(s): 6222164								
2378-TCDD	0.0984 J	0.0652	2.00	pg/l	107		67-158		
12378-PeCDD	0.322 J	0.0911	10.0	pg/l	107		70-142		
123478-HxCDD	0.221 J	0.0798	10.0	pg/l	109		70-164		
123678-HxCDD	0.314 J	0.0831	10.0	pg/l	108		76-134		
123789-HxCDD	0.432 J	0.0771	10.0	pg/l	107		64-162		
1234678-HpCDD	2.50 J	0.114	10.0	pg/l	108		70-140		
OCDD	4.99 J	0.147	20.0	pg/l	109		78-144		
2378-TCDF	0.209 J	0.0700	2.00	pg/l	111		75-158		
12378-PeCDF	0.379 J	0.0536	10.0	pg/l	105		80-134		
23478-PeCDF	0.765 J	0.0504	10.0	pg/l	105		68-160		
123478-HxCDF	0.713 J	0.116	10.0	pg/l	108		72-134		
123678-HxCDF	0.790 J	0.105	10.0	pg/l	107		84-130		
123789-HxCDF	0.756 J	0.102	10.0	pg/l	106		78-130		
234678-HxCDF	1.21 J	0.0983	10.0	pg/l	107		70-156		
1234678-HpCDF	4.59 J	0.0682	10.0	pg/l	110		82-122		
1234789-HpCDF	0.734 J	0.0778	10.0	pg/l	107		78-138		
OCDF	2.42 J	0.112	20.0	pg/l	108		63-170		
Batch number: 11076001	Sample number(s): 6222156-6222163								
2378-TCDD	0.0119 J	0.00800	1.00	ng/kg	88		67-158		
12378-PeCDD	0.0214 J	0.00920	5.00	ng/kg	90		70-142		
123478-HxCDD	0.0153 J	0.00980	5.00	ng/kg	88		70-164		
123678-HxCDD	0.0167 J	0.0100	5.00	ng/kg	88		76-134		
123789-HxCDD	0.0207 J	0.00900	5.00	ng/kg	86		64-162		
1234678-HpCDD	0.200 J	0.0171	5.00	ng/kg	86		70-140		
OCDD	0.355 J	0.0174	10.0	ng/kg	86		78-144		
2378-TCDF	0.00760 U	0.00760	1.00	ng/kg	99		75-158		
12378-PeCDF	0.0234 J	0.00480	5.00	ng/kg	84		80-134		
23478-PeCDF	0.0861 J	0.00520	5.00	ng/kg	85		68-160		
123478-HxCDF	0.0401 J	0.0110	5.00	ng/kg	87		72-134		
123678-HxCDF	0.0403 J	0.00860	5.00	ng/kg	84		84-130		
123789-HxCDF	0.0536 J	0.0104	5.00	ng/kg	83		78-130		
234678-HxCDF	0.0969 J	0.00890	5.00	ng/kg	86		70-156		
1234678-HpCDF	0.221 J	0.00880	5.00	ng/kg	84		82-122		
1234789-HpCDF	0.0584 J	0.0147	5.00	ng/kg	86		78-138		
OCDF	0.291 J	0.0239	10.0	ng/kg	85		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235806
Reported: 03/29/11 at 08:34 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11067162401B	Sample number(s): 6222156-6222161					BKG: P222141			
Moisture Content by 160.3						11.9	11.6	2	20
Batch number: 11077162401A	Sample number(s): 6222162-6222163					BKG: P226876			
Moisture Content by 160.3						13.6	13.7	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11068002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6222164	47	39	23*	28	36	36
Blank	74	68	61	65	67	71
OPR	84	78	71	74	78	82
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6222164	26*	29	24	93	42	36
Blank	63	62	56	95	71	69
OPR	73	72	61	94	87	80
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6222164	37	38	35	31	47	36
Blank	70	70	68	61	71	67
OPR	82	82	80	74	79	78
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11076001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6222156	82	78	41	59	80	72
6222157	89	83	75	90	87	73

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235806
Reported: 03/29/11 at 08:34 PM

Surrogate Quality Control

6222158	79	79	71	84	82	76
6222159	79	78	38	56	80	69
6222160	87	80	49	70	82	72
6222161	83	79	33	47	79	76
6222162	82	81	70	87	81	72
6222163	79	76	73	85	76	72
Blank	79	73	61	78	75	70
OPR	75	68	58	75	69	59
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6222156	59	55	43	93	78	73
6222157	93	60	47	107	85	87
6222158	81	60	49	96	78	83
6222159	64	56	44	97	81	78
6222160	76	53	40	97	83	81
6222161	53	58	44	96	79	69
6222162	95	56	43	96	81	83
6222163	99	52	38	95	78	81
Blank	84	57	47	95	75	78
OPR	80	47	35	90	73	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6222156	80	83	71	59	82	86
6222157	91	91	77	62	90	93
6222158	83	84	72	59	83	86
6222159	79	82	74	61	78	87
6222160	85	86	74	60	84	92
6222161	77	83	72	61	83	88
6222162	87	85	74	62	82	91
6222163	82	83	71	57	78	88
Blank	79	80	73	65	75	80
OPR	78	78	66	52	71	78
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1235806 samp6# 6222156-64

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-234-SA5A-SB-4.0-5.0	3.03.11	1553	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-234-SA5A-SB-4.5	3.03.11	1548	SOIL	NONE	4-Encores									X	X												
SL-234-SA5A-SB-9.0-10.0	3.03.11	1555	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-235-SA5A-SB-4.0-5.0	3.03.11	1433	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-235-SA5A-SB-4.5	3.03.11	1428	SOIL	NONE	4-Encores									X	X												
SL-235-SA5A-SB-8.5-9.5	3.03.11	1438	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-236-SA5A-SB-4.0-5.0	3.03.11	0953	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-236-SA5A-SB-4.5	3.03.11	0948	SOIL	NONE	4-Encores									X	X												
SL-236-SA5A-SB-9.0-10.0	3.03.11	0958	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X															
SL-249-SA5A-SB-2.5-3.5	3.03.11	1200	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-249-SA5A-SB-3.0	3.03.11	1155	SOIL	NONE	5-Encores									X	X	X											
SL-249-SA5A-SB-9.0-10.0	3.03.11	1210	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-249-SA5A-SB-9.5	3.03.11	1205	SOIL	NONE	5-Encores									X	X	X											
EB06-SA5A-030311	3.03.11	1620	WATER	HCl	6-40 mL vials									X	X												subsurface rinsate blank
EB06-SA5A-030311	3.03.11	1620	WATER	NONE	4-1 L ambers			X	X	X																	subsurface rinsate blank
EB06-SA5A-030311	3.03.11	1620	WATER	HNO3	1-500 mL poly	X																					subsurface rinsate blank
EB06-SA5A-030311	3.03.11	1620	WATER	NONE	1-500 mL poly		X				X	X		X	X												subsurface rinsate blank
TB-030311	3.03.11	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/03/2011 / 17:00

Received for Laboratory by: (*Signature*) 3/4/11 915

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8700 5935 4031; 8700 5935 4075

Laboratory: Lancaster Laboratories, Inc.

SUB-SURFACE

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 23, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/05/2011
Group Number: 1235997
SDG: DE098
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-015-SA5A-SB-3.0-4.0 Soil	6223281
SL-233-SA5A-SB-4.0-5.0 Soil	6223282
SL-233-SA5A-SB-9.0-10.0 Soil	6223283
TB-030411 Water	6223284

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Marla S. Lord
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5A-SB-3.0-4.0

LLI Sample # SW 6223281
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 09:16

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9801 SDG#: DE098-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4	0.89
06192	Benzene	71-43-2	0.11	U	0.11	4.2	0.89
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2	0.89
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2	0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2	0.89
06192	Bromoform	75-25-2	0.42	U	0.42	4.2	0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2	0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4	0.89
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2	0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2	0.89
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2	0.89
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2	0.89
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2	0.89
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2	0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2	0.89
06192	Chloroform	67-66-3	0.13	U	0.13	4.2	0.89
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2	0.89
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2	0.89
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2	0.89
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3	0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2	0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2	0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2	0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2	0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2	0.89
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2	0.89
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2	0.89
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2	0.89
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2	0.89
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2	0.89
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2	0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2	0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2	0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2	0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2	0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2	0.89
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2	0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2	0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2	0.89
06192	Ethylbenzene	100-41-4	0.21	J	0.06	4.2	0.89
06192	Freon 113	76-13-1	0.12	U	0.12	4.2	0.89
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3	0.89
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2	0.89
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4	0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2	0.89
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2	0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2	0.89
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4	0.89
06192	Methylene Chloride	75-09-2	0.43	J	0.25	4.2	0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2	0.89

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5A-SB-3.0-4.0

LLI Sample # SW 6223281
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 09:16

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9801 SDG#: DE098-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2	0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2	0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2	0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2	0.89
06192	Toluene	108-88-3	0.10	J	0.08	4.2	0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2	0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2	0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2	0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2	0.89
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2	0.89
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2	0.89
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2	0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2	0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2	0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2	0.89
06192	m+p-Xylene	179601-23-1	0.66	J	0.18	4.2	0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2	0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	21.33
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5A-SB-3.0-4.0

LLI Sample # SW 6223281
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 09:16

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9801 SDG#: DE098-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21	1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0	1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0	1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5A-SB-3.0-4.0

LLI Sample # SW 6223281
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 09:16

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9801 SDG#: DE098-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21	1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0	1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,400		5.89	23.4	1
07914	Boron	7440-42-8	3.56	J	1.04	5.86	1
01650	Calcium	7440-70-2	2,540		7.18	23.4	1
01654	Iron	7439-89-6	19,900		5.52	23.4	1
01656	Lithium	7439-93-2	30.7		0.26	2.3	1
01657	Magnesium	7439-95-4	4,460		2.98	11.7	1
06958	Manganese	7439-96-5	153		0.0914	0.586	1
10145	Phosphorus	7723-14-0	227		0.656	11.7	1
01662	Potassium	7440-09-7	1,460		21.1	58.6	1
01667	Sodium	7440-23-5	134		43.7	117	1
07968	Strontium	7440-24-6	26.4		0.0726	0.586	1
06969	Tin	7440-31-5	2.83	J	1.17	11.7	1
06970	Titanium	7440-32-6	1,270		0.445	1.17	1
10146	Zirconium	7440-67-7	1.30	J	0.984	5.86	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0815	J	0.0696	0.232	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.04		0.0928	0.464	2
06126	Barium	7440-39-3	154		0.125	0.464	2
06127	Beryllium	7440-41-7	0.868		0.0186	0.116	2
06128	Cadmium	7440-43-9	0.147		0.0464	0.116	2
06131	Chromium	7440-47-3	24.3		0.139	0.464	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5A-SB-3.0-4.0

LLI Sample # SW 6223281
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 09:16

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9801 SDG#: DE098-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	5.56	0.0232	0.116	2
06133	Copper	7440-50-8	6.44	0.0766	0.464	2
06135	Lead	7439-92-1	8.00	0.0121	0.232	2
06138	Molybdenum	7439-98-7	0.612	0.0580	0.116	2
06139	Nickel	7440-02-0	15.3	0.116	0.464	2
06141	Selenium	7782-49-2	0.0544 J	0.0464	0.464	2
06142	Silver	7440-22-4	0.0730 J	0.0139	0.116	2
06145	Thallium	7440-28-0	0.263	0.0348	0.116	2
06148	Vanadium	7440-62-2	44.1	0.0255	0.116	2
06149	Zinc	7440-66-6	65.0	0.650	3.48	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.4	0.95	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.5	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48 J	0.24	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	419	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.55	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-015-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-015-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5A-SB-3.0-4.0

LLI Sample # SW 6223281
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 09:16

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9801 SDG#: DE098-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110671AA	03/08/2011 17:08	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110681AA	03/09/2011 10:12	Jason M Long	21.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106423823	03/05/2011 12:26	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106423823	03/05/2011 12:31	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106423823	03/05/2011 12:31	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106423823	03/05/2011 12:26	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11074SLA026	03/22/2011 12:48	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011 15:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11074SLA026	03/15/2011 14:00	Olivia I Santiago	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110710012A	03/15/2011 15:14	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110740006A	03/17/2011 02:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110740006A	03/15/2011 16:35	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110710012A	03/14/2011 09:25	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 21:51	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 15:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 15:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 15:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 15:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 15:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 15:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 15:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 15:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 15:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 15:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 15:58	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5A-SB-3.0-4.0

LLI Sample # SW 6223281
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 09:16

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9801 SDG#: DE098-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 15:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 15:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 15:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 15:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 15:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 05:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075495201A	03/18/2011 07:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201B	03/12/2011 02:11	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243202A	03/08/2011 21:29	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075495201A	03/17/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201B	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182102A	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402A	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401B	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-233-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-4.0-5.0

LLI Sample # SW 6223282
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:05

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9802 SDG#: DE098-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4	0.82
06192	Benzene	71-43-2	0.09	U	0.09	3.7	0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7	0.82
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7	0.82
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7	0.82
06192	Bromoform	75-25-2	0.37	U	0.37	3.7	0.82
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7	0.82
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4	0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7	0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7	0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7	0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7	0.82
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7	0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7	0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7	0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.7	0.82
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7	0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7	0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7	0.82
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.7	0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7	0.82
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7	0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7	0.82
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7	0.82
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7	0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7	0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7	0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7	0.82
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7	0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7	0.82
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7	0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7	0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7	0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7	0.82
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7	0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7	0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7	0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7	0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7	0.82
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7	0.82
06192	Freon 113	76-13-1	0.10	U	0.10	3.7	0.82
06192	Freon 133a	75-88-7	0.46	U	0.46	4.7	0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7	0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4	0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7	0.82
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7	0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7	0.82
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4	0.82
06192	Methylene Chloride	75-09-2	0.65	J	0.22	3.7	0.82
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7	0.82

*=This limit was used in the evaluation of the final result

Sample Description: SL-233-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-4.0-5.0

LLI Sample # SW 6223282
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:05

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9802 SDG#: DE098-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7	0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7	0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7	0.82
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7	0.82
06192	Toluene	108-88-3	0.09	J	0.07	3.7	0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7	0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7	0.82
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7	0.82
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7	0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7	0.82
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7	0.82
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7	0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7	0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7	0.82
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7	0.82
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7	0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7	0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15	22.52
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-233-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-4.0-5.0

LLI Sample # SW 6223282
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:05

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9802 SDG#: DE098-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-233-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-4.0-5.0

LLI Sample # SW 6223282
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:05

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9802 SDG#: DE098-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,900		5.47	21.8	1
07914	Boron	7440-42-8	3.28	J	0.968	5.44	1
01650	Calcium	7440-70-2	2,240		6.67	21.8	1
01654	Iron	7439-89-6	20,400		5.12	21.8	1
01656	Lithium	7439-93-2	23.2		0.24	2.2	1
01657	Magnesium	7439-95-4	4,060		2.76	10.9	1
06958	Manganese	7439-96-5	195		0.0848	0.544	1
10145	Phosphorus	7723-14-0	161		0.609	10.9	1
01662	Potassium	7440-09-7	1,700		19.6	54.4	1
01667	Sodium	7440-23-5	104	J	40.6	109	1
07968	Strontium	7440-24-6	22.2		0.0674	0.544	1
06969	Tin	7440-31-5	2.53	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,090		0.413	1.09	1
10146	Zirconium	7440-67-7	1.08	J	0.914	5.44	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0646	U	0.0646	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.20		0.0862	0.431	2
06126	Barium	7440-39-3	112		0.116	0.431	2
06127	Beryllium	7440-41-7	0.963		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.139		0.0431	0.108	2
06131	Chromium	7440-47-3	21.0		0.129	0.431	2
06132	Cobalt	7440-48-4	5.80		0.0215	0.108	2
06133	Copper	7440-50-8	6.04		0.0711	0.431	2
06135	Lead	7439-92-1	7.80		0.0112	0.215	2
06138	Molybdenum	7439-98-7	0.553		0.0539	0.108	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-233-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-4.0-5.0

LLI Sample # SW 6223282
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:05

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9802 SDG#: DE098-02

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	12.9		0.108	0.431	2
06141	Selenium		7782-49-2	0.126	J	0.0431	0.431	2
06142	Silver		7440-22-4	0.0462	J	0.0129	0.108	2
06145	Thallium		7440-28-0	0.298		0.0323	0.108	2
06148	Vanadium		7440-62-2	46.5		0.0237	0.108	2
06149	Zinc		7440-66-6	58.6		0.603	3.23	2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0032	U	0.0032	0.110	1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.2		0.90	1.1	1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.2	U	10.2	33.9	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.23	U	0.23	1.1	1
		ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential		n.a.	435		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.34		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.6		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-233-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SL-233-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-4.0-5.0

LLI Sample # SW 6223282
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:05

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9802 SDG#: DE098-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110671AA	03/08/2011 17:30	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110681AA	03/09/2011 10:33	Jason M Long	22.52
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106423823	03/05/2011 12:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106423823	03/05/2011 12:31	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106423823	03/05/2011 12:31	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106423823	03/05/2011 12:29	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11074SLA026	03/22/2011 14:03	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011 15:36	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11074SLA026	03/15/2011 14:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110740006A	03/17/2011 02:40	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110740006A	03/15/2011 16:35	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 21:55	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 16:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 16:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 16:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 16:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 16:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 16:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 16:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 16:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 16:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 16:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 16:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 16:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 16:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/16/2011 16:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 16:01	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-233-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-4.0-5.0

LLI Sample # SW 6223282
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:05

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9802 SDG#: DE098-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 16:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 05:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075495201A	03/18/2011 08:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201B	03/12/2011 02:35	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243202A	03/08/2011 21:41	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075495201A	03/17/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201B	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182102A	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402A	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401B	03/07/2011 19:49	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-233-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-9.0-10.0

LLI Sample # SW 6223283
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:08

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9803 SDG#: DE098-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	78	U	78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	78	U	78	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-233-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-9.0-10.0

LLI Sample # SW 6223283
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:08

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9803 SDG#: DE098-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9	1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9	1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9	1
10138	Di-n-octylphthalate	117-84-0	13	J	7.0	21	1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9	1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-233-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-9.0-10.0

LLI Sample # SW 6223283
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:08

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9803 SDG#: DE098-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.75	22.9	1
07914	Boron	7440-42-8	2.28	J	1.02	5.71	1
01650	Calcium	7440-70-2	1,980		7.00	22.9	1
01654	Iron	7439-89-6	19,700		5.38	22.9	1
01656	Lithium	7439-93-2	18.0		0.25	2.3	1
01657	Magnesium	7439-95-4	3,820		2.90	11.4	1
06958	Manganese	7439-96-5	123		0.0891	0.571	1
10145	Phosphorus	7723-14-0	117		0.640	11.4	1
01662	Potassium	7440-09-7	1,820		20.6	57.1	1
01667	Sodium	7440-23-5	125		42.6	114	1
07968	Strontium	7440-24-6	19.8		0.0708	0.571	1
06969	Tin	7440-31-5	2.67	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,160		0.434	1.14	1
10146	Zirconium	7440-67-7	1.07	J	0.960	5.71	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0679	U	0.0679	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.61		0.0905	0.453	2
06126	Barium	7440-39-3	98.0		0.122	0.453	2
06127	Beryllium	7440-41-7	0.665		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.0901	J	0.0453	0.113	2
06131	Chromium	7440-47-3	19.5		0.136	0.453	2
06132	Cobalt	7440-48-4	6.44		0.0226	0.113	2
06133	Copper	7440-50-8	7.47		0.0747	0.453	2
06135	Lead	7439-92-1	6.20		0.0118	0.226	2
06138	Molybdenum	7439-98-7	0.440		0.0566	0.113	2
06139	Nickel	7440-02-0	8.84		0.113	0.453	2
06141	Selenium	7782-49-2	0.0453	U	0.0453	0.453	2
06142	Silver	7440-22-4	0.0495	J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.272		0.0339	0.113	2
06148	Vanadium	7440-62-2	43.7		0.0249	0.113	2
06149	Zinc	7440-66-6	54.3		0.634	3.39	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.23	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-233-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-9.0-10.0

LLI Sample # SW 6223283
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:08

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9803 SDG#: DE098-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	306	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.35	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11074SLA026	03/22/2011 14:28	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011 16:08	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11074SLA026	03/15/2011 14:00	Olivia I Santiago	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110710012A	03/15/2011 15:20	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110740006A	03/17/2011 02:58	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110740006A	03/15/2011 16:35	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110710012A	03/14/2011 09:25	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1
07914	Boron	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1
01654	Iron	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-233-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-9.0-10.0

LLI Sample # SW 6223283
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:08

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9803 SDG#: DE098-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1
06969	Tin	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110695708002	03/11/2011 21:59	John P Hook	1
06124	Antimony	SW-846 6020	1	110691026001A	03/16/2011 16:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026001A	03/16/2011 16:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026001D	03/16/2011 16:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026001A	03/16/2011 16:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026001A	03/16/2011 16:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026001A	03/16/2011 16:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026001A	03/16/2011 16:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026001A	03/16/2011 16:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026001A	03/16/2011 16:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026001C	03/16/2011 16:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026001A	03/16/2011 16:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026001B	03/16/2011 16:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026001A	03/16/2011 16:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026001A	03/17/2011 08:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026001A	03/16/2011 16:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026001A	03/16/2011 16:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711001	03/11/2011 05:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708002	03/10/2011 12:36	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026001	03/10/2011 12:59	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711001	03/10/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075495201A	03/18/2011 09:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11067495201B	03/12/2011 02:59	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11066243202A	03/08/2011 21:54	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075495201A	03/17/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11067495201B	03/09/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11067182102B	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402B	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11066243202A	03/07/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401B	03/07/2011 19:49	Scott W Freisher	1

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Analysis Report

Sample Description: TB-030411 Water
SSFL Area IV Collocated Soil Sampling
TB-030411

LLI Sample # WW 6223284
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 16:00

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9804 SDG#: DE098-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB-030411 Water
SSFL Area IV Collocated Soil Sampling
TB-030411

LLI Sample # WW 6223284
LLI Group # 1235997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 16:00

Submitted: 03/05/2011 09:50
Reported: 03/23/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9804 SDG#: DE098-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110691AA	03/10/2011 14:23	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110661AA	03/07/2011 11:36	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110661AA	03/07/2011 11:36	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110691AA	03/10/2011 14:23	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235997
Reported: 03/23/11 at 11:53 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110671AA	Sample number(s): 6223281-6223282									
Acetone	6.7	U	6.7	8.0	ug/kg	100	100	32-209	0	30
Benzene	0.10	U	0.10	4.0	ug/kg	103	103	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103	101	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	121	119	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94	94	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	86	86	70-120	0	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	74	74	32-162	0	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	99	99	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	108	107	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	113	110	75-120	3	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	104	102	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	96	96	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	98	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	75	75	37-154	0	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	99	101	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	102	100	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	74	76	54-132	3	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	105	103	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	101	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	75	67	22-131	11	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	99	99	58-120	0	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	90	88	77-120	3	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	101	99	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99	98	80-120	0	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100	97	79-120	3	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101	99	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	98	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	63	61	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	102	101	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	100	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112	110	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102	101	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	105	103	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	99	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102	100	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	96	95	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	102	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92	92	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91	90	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	102	100	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	115	114	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	98	90	78-120	9	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	100	98	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	105	105	45-155	0	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	102	100	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	110	108	75-120	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235997
Reported: 03/23/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	98	99	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	102	102	61-134	1	30
Methylene Chloride	0.29	J	0.24	4.0	ug/kg	108	107	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	111	110	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	97	95	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	95	93	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	105	105	71-123	0	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99	97	77-120	2	30
Toluene	0.19	J	0.08	4.0	ug/kg	103	101	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95	94	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	96	95	68-120	0	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95	95	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101	98	80-120	3	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99	99	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	92	90	58-133	2	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	107	105	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	108	106	79-120	2	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107	105	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	82	80	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99	98	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	99	96	80-120	3	30
Batch number: E110661AA	Sample number(s): 6223284									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105	117	80-123	11	30
Batch number: E110681AA	Sample number(s): 6223281-6223282									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	112	108	70-130	4	30
Batch number: Y110691AA	Sample number(s): 6223284									
Acetone	6	U	6.	20	ug/l	87	88	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	95	97	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	97	99	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	97	98	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	94	94	80-120	0	30
Bromoform	1	U	1.	5	ug/l	73	76	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	87	88	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	104	104	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	95	96	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	98	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	92	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	99	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	93	94	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	83	85	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	116	114	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	101	101	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	81	82	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	98	99	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	96	97	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	81	82	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	80	83	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	86	86	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	95	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	98	99	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	93	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	95	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	77	76	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	99	79-120	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235997
Reported: 03/23/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	110	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	89	88	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	96	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	99	101	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	97	97	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	100	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	93	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	88	86	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	100	102	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	83	88	58-120	6	30
2-Hexanone	3	U	3.	10	ug/l	99	100	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	92	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	96	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	99	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	98	100	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	93	94	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	100	102	80-120	2	30
Styrene	1	U	1.	5	ug/l	88	89	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	91	92	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	92	96	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	93	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	92	94	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	79	84	65-120	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	88	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	88	87	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	93	97	80-120	4	30
Trichloroethene	1	U	1.	5	ug/l	96	96	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	95	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	100	101	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	99	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	98	99	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	80	81	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	91	92	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	90	90	80-120	1	30
Batch number: 11074SLA026	Sample number(s): 6223281-6223283									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	29		15-121		
Benzoic acid	170 U		170.	500	ug/kg	92		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	95		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		79-117		
Di-n-butylphthalate	17	U	17.	170	ug/kg	95		79-112		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	24		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	91		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	89		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	70		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	96		72-112		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235997
Reported: 03/23/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	52		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	78		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	74		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	90		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	88		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	83		68-105		
Isophorone	17	U	17.	170	ug/kg	86		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	98		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	91		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	83		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	84		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	89		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	85		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	90		51-117		
Phenol	17	U	17.	170	ug/kg	93		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 11074SLB026	Sample number(s): 6223281-6223283									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	93		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	100		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	106		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	120		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Chrysene	0.33	U	0.33	1.7	ug/kg	100		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	121		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	99		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	102		71-120		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235997
Reported: 03/23/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	120		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	92		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	123		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	91		56-121		
Batch number: 110710012A	Sample number(s): 6223281,6223283									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		85-115		
Batch number: 110740006A	Sample number(s): 6223281-6223283									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	72	73	36-106	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	82		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	93		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110691026001A	Sample number(s): 6223281-6223283									
Antimony	0.0600	U	0.0600	0.200	mg/kg	65		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	102		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	104		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	98		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	102		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	104		82-118		
Copper	0.169	J	0.0660	0.400	mg/kg	101		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	98		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	104		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	102		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	104		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	98		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	99		78-122		
Batch number: 110691026001B	Sample number(s): 6223281-6223283									
Selenium	0.0400	U	0.0400	0.400	mg/kg	100		79-122		
Batch number: 110691026001C	Sample number(s): 6223281-6223283									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	102		78-122		
Batch number: 110691026001D	Sample number(s): 6223281-6223283									
Barium	0.108	U	0.108	0.400	mg/kg	102		79-121		
Batch number: 110695708002	Sample number(s): 6223281-6223283									
Aluminum	6.34	J	4.84	19.2	mg/kg	93		61-110		
Boron	0.856	U	0.856	4.81	mg/kg	95		78-110		
Calcium	10.2	J	5.89	19.2	mg/kg	95		88-110		
Iron	5.30	J	4.53	19.2	mg/kg	84		61-110		
Lithium	0.21	U	0.21	1.9	mg/kg	100		80-120		
Magnesium	2.85	J	2.44	9.62	mg/kg	95		82-110		
Manganese	0.0750	U	0.0750	0.481	mg/kg	102		81-119		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235997
Reported: 03/23/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phosphorus	1.24	J	0.538	9.62	mg/kg	102		80-120		
Potassium	17.3	U	17.3	48.1	mg/kg	95		78-110		
Sodium	35.9	U	35.9	96.2	mg/kg	92		87-110		
Strontium	0.0596	U	0.0596	0.481	mg/kg	97		79-121		
Tin	1.30	J	0.962	9.62	mg/kg	94		90-114		
Titanium	0.365	U	0.365	0.962	mg/kg	84		80-120		
Zirconium	0.808	U	0.808	4.81	mg/kg	100		80-120		
Batch number: 110695711001	Sample number(s): 6223281-6223283									
Mercury	0.0028	U	0.0028	0.0968	mg/kg	99		88-123		
Batch number: 11066243202A	Sample number(s): 6223281-6223283									
3a Cr VI by EPA 7199	0.49	J	0.20	1.0	mg/kg	93		80-120		
Batch number: 11067495201B	Sample number(s): 6223281-6223283									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	109		85-115		
Batch number: 11075495201A	Sample number(s): 6223281-6223283									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
Batch number: 11067039402A	Sample number(s): 6223281-6223282									
18a pH by 9045C						100		95-105		
Batch number: 11067039402B	Sample number(s): 6223283									
18a pH by 9045C						100		95-105		
Batch number: 11067182102A	Sample number(s): 6223281-6223282									
32a OR Potential						100		98-102		
Batch number: 11067182102B	Sample number(s): 6223283									
32a OR Potential						100		98-102		
Batch number: 11066162401B	Sample number(s): 6223281-6223283									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11074SLA026	Sample number(s): 6223281-6223283 UNSPK: 6223281								
Aniline	73	75	35-95	2	30				
Benzidine	29*	32*	35-141	8	30				
Benzoic acid	73	65	10-173	11	30				
Benzyl alcohol	89	89	67-115	0	30				
4-Bromophenyl-phenylether	90	91	67-129	0	30				
Di-n-butylphthalate	90	90	67-123	0	30				
Carbazole	91	91	64-120	1	30				
4-Chloro-3-methylphenol	89	88	76-110	2	30				
4-Chloroaniline	62	60	23-95	3	30				
bis(2-Chloroethoxy)methane	87	86	75-104	1	30				
bis(2-Chloroethyl)ether	84	83	60-116	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235997
Reported: 03/23/11 at 11:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroisopropyl)ether	84	82	55-142	3	30				
2-Chloronaphthalene	70	71	50-141	1	30				
2-Chlorophenol	92	90	73-121	2	30				
4-Chlorophenyl-phenylether	95	94	80-109	1	30				
Dibenzofuran	92	93	71-112	1	30				
1,2-Dichlorobenzene	82	81	66-108	1	30				
1,3-Dichlorobenzene	79	76	63-109	3	30				
1,4-Dichlorobenzene	79	78	70-100	2	30				
3,3'-Dichlorobenzidine	64	65	16-119	2	30				
2,4-Dichlorophenol	93	92	78-117	1	30				
2,4-Dimethylphenol	89	88	78-110	0	30				
3,5-Dimethylphenol	100	96	70-130	4	30				
4,6-Dinitro-2-methylphenol	78	79	24-116	1	30				
2,4-Dinitrophenol	71	72	20-143	1	30				
2,4-Dinitrotoluene	92	94	73-113	2	30				
2,6-Dinitrotoluene	92	93	69-123	1	30				
1,2-Diphenylhydrazine	88	88	71-129	0	30				
Hexachlorobenzene	92	92	77-114	1	30				
Hexachlorobutadiene	83	82	62-120	2	30				
Hexachlorocyclopentadiene	85	75	10-153	12	30				
Hexachloroethane	74	73	57-109	1	30				
Isophorone	83	82	73-102	1	30				
2-Methylphenol	92	90	75-111	2	30				
4-Methylphenol	95	87	71-111	9	30				
2-Nitroaniline	90	93	67-125	3	30				
3-Nitroaniline	89	89	59-122	1	30				
4-Nitroaniline	74	74	52-112	0	30				
Nitrobenzene	81	81	72-106	0	30				
2-Nitrophenol	84	86	74-115	2	30				
4-Nitrophenol	80	81	54-113	2	30				
N-Nitroso-di-n-propylamine	80	80	60-116	0	30				
N-Nitrosodiphenylamine	94	95	86-145	1	30				
Pentachlorophenol	81	83	28-127	3	30				
Phenol	90	89	58-126	1	30				
1,2,4-Trichlorobenzene	87	87	72-115	0	30				
2,4,5-Trichlorophenol	92	92	78-109	0	30				
2,4,6-Trichlorophenol	89	90	77-115	2	30				
Batch number: 11074SLB026	Sample number(s): 6223281-6223283 UNSPK: P222138								
Acenaphthene	96	96	63-105	1	30				
Acenaphthylene	97	96	67-114	1	30				
Anthracene	101	101	60-122	0	30				
Benzo(a)anthracene	104	102	59-128	2	30				
Benzo(a)pyrene	110	110	45-138	0	30				
Benzo(b)fluoranthene	114	121	43-155	6	30				
Benzo(g,h,i)perylene	115	126	33-141	9	30				
Benzo(k)fluoranthene	113	103	42-144	10	30				
Butylbenzylphthalate	114	104	57-173	9	30				
Chrysene	103	102	48-134	2	30				
Dibenz(a,h)anthracene	120	128	22-133	7	30				
Diethylphthalate	111	102	70-136	9	30				
Dimethylphthalate	110	111	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	117	107	39-167	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235997
Reported: 03/23/11 at 11:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluoranthene	111	104	26-166	6	30				
Fluorene	105	101	66-122	3	30				
Indeno(1,2,3-cd)pyrene	117	126	21-143	7	30				
1-Methylnaphthalene	99	99	72-123	0	30				
2-Methylnaphthalene	90	90	64-103	0	30				
Naphthalene	98	98	61-102	0	30				
N-Nitrosodimethylamine	99	97	48-113	2	30				
Di-n-octylphthalate	124	115	40-192	8	30				
Phenanthrene	98	98	12-165	0	30				
Pyrene	90	87	15-153	4	30				
Batch number: 110710012A	Sample number(s): 6223281,6223283 UNSPK: P218897								
6a Perchlorate EPA 6850	105	105	80-120	0	20				
Batch number: 110740006A	Sample number(s): 6223281-6223283 UNSPK: P213417								
PCB-1016	87	85	29-146	2	50				
PCB-1260	129	100	39-149	21	50				
Batch number: 110691026001A	Sample number(s): 6223281-6223283 UNSPK: P220827 BKG: P220827								
Antimony	44*	42*	75-125	2	20	0.0734 J	0.0583 U	200* (1)	20
Arsenic	85	100	75-125	6	20	3.48	3.06	13	20
Beryllium	106	99	75-125	4	20	0.420	0.381	10 (1)	20
Cadmium	115	104	75-125	9	20	0.0467 J	0.0388 U	200* (1)	20
Chromium	89	85	75-125	1	20	10.1	8.93	12	20
Cobalt	96	93	75-125	2	20	3.63	3.47	5	20
Copper	91	90	75-125	0	20	3.89	4.34	11	20
Lead	104	89	75-125	6	20	3.63	3.80	5	20
Nickel	94	97	75-125	3	20	5.64	5.52	2	20
Silver	115	105	75-125	8	20	0.0131 J	0.0204 J	43* (1)	20
Thallium	104	96	75-125	4	20	0.255	0.237	7 (1)	20
Vanadium	72*	79	75-125	2	20	23.0	21.6	6	20
Zinc	44 (2)	18 (2)	75-125	4	20	54.8	49.2	11	20
Batch number: 110691026001B	Sample number(s): 6223281-6223283 UNSPK: P220827 BKG: P220827								
Selenium	102	95	75-125	6	20	0.105 J	0.0942 J	11 (1)	20
Batch number: 110691026001C	Sample number(s): 6223281-6223283 UNSPK: P220827 BKG: P220827								
Molybdenum	107	100	75-125	6	20	0.316	0.294	7 (1)	20
Batch number: 110691026001D	Sample number(s): 6223281-6223283 UNSPK: P220827 BKG: P220827								
Barium	70 (2)	77 (2)	75-125	1	20	65.1	61.2	6	20
Batch number: 110695708002	Sample number(s): 6223281-6223283 UNSPK: P220827 BKG: P220827								
Aluminum	1083 (2)	1307 (2)	75-125	3	20	10,200	9,170	11	20
Boron	98	97	84-115	1	20	2.03 J	2.01 J	1 (1)	20
Calcium	752 (2)	74 (2)	75-125	72*	20	1,990	1,690	16	20
Iron	-300 (2)	-82 (2)	75-125	1	20	15,400	14,200	8	20
Lithium	101	99	82-114	2	20	21.3	19.7	7	20
Magnesium	207 (2)	118 (2)	75-125	5	20	3,130	2,920	7	20
Manganese	45 (2)	41 (2)	75-125	1	20	207	209	1	20
Phosphorus	118	41*	75-125	20	20	289	243	18	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235997
Reported: 03/23/11 at 11:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Potassium	130*	108	75-125	6	20	2,340		2,330		0	20
Sodium	94	95	75-125	0	20	91.6	J	82.9	J	10 (1)	20
Strontium	100	99	75-115	2	20	10.5		9.04		15	20
Tin	88	87	80-110	1	20	2.51	J	2.33	J	8 (1)	20
Titanium	228 (2)	162 (2)	75-125	6	20	887		858		3	20
Zirconium	99	98	75-125	2	20	0.824	U	0.938	J	200* (1)	20
Batch number: 110695711001	Sample number(s): 6223281-6223283 UNSPK: P220827 BKG: P220827										
Mercury	97	96	65-135	2	20	0.0027	U	0.0027	U	0 (1)	20
Batch number: 11066243202A	Sample number(s): 6223281-6223283 UNSPK: 11066B BKG: 11066B										
3a Cr VI by EPA 7199	89		75-125			0.36	J	0.50	J	32* (1)	20
Batch number: 11067495201B	Sample number(s): 6223281-6223283 UNSPK: P222139 BKG: P222139										
7a Perchlorate EPA 314.0	105		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11075495201A	Sample number(s): 6223281-6223283 UNSPK: 6223281 BKG: 6223281										
11a Anions by 300.0 - Fluoride	49*		80-120			4.6		4.0		13 (1)	20
Batch number: 11067039402A	Sample number(s): 6223281-6223282 BKG: P222139										
18a pH by 9045C						7.15		7.14		0	1
Batch number: 11067039402B	Sample number(s): 6223283 BKG: 6223283										
18a pH by 9045C						7.35		7.32		0	1
Batch number: 11067182102A	Sample number(s): 6223281-6223282 BKG: P222139										
32a OR Potential						332		333		0	6
Batch number: 11067182102B	Sample number(s): 6223283 BKG: 6223283										
32a OR Potential						306		308		0	6
Batch number: 11066162401B	Sample number(s): 6223281-6223283 BKG: 6223281										
Moisture Content by 160.3						15.5		14.9		4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110671AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6223281	96	97	98	95
6223282	98	101	97	96
Blank	99	99	98	96
LCS	100	104	102	100
LCSD	100	104	101	99
Limits:	80-120	80-120	81-117	74-121

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235997
Reported: 03/23/11 at 11:53 AM

Surrogate Quality Control

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110661AA

	Toluene-d8
6223284	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110681AA

	Toluene-d8
6223281	94
6223282	95
Blank	95
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6223284	103	100	101	100
Blank	105	99	102	100
LCS	104	99	101	99
LCSD	103	103	101	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11074SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6223281	80	83	85	70	80	81
6223282	83	87	91	73	84	83
6223283	77	80	82	67	75	80
Blank	84	87	89	77	86	83
LCS	95	96	101	82	91	91
MS	91	92	97	79	91	89
MSD	89	90	97	79	91	90
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11074SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6223281	98	91	89
6223282	86	82	88
6223283	96	90	89
Blank	98	93	100

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235997
Reported: 03/23/11 at 11:53 AM

Surrogate Quality Control

LCS	97	91	94
MS	103	94	93
MSD	102	95	90
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110740006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6223281	72	86
6223282	77	91
6223283	77	88
Blank	81	91
LCS	79	89
LCSD	81	96
MS	79	81
MSD	78	78
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1235997 Sample#6223281-84

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
SL-015-SA5A-SB-3.0-4.0	3.04.11	0916	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X				
SL-015-SA5A-SB-3.5	3.04.11	0912	SOIL	NONE	4-Encores									X	X		
SL-233-SA5A-SB-4.0-5.0	3.04.11	1105	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-233-SA5A-SB-4.5	3.04.11	1100	SOIL	NONE	4-Encores									X	X		
SL-233-SA5A-SB-9.0-10.0	3.04.11	1108	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X				
TB-0304111	3.04.11	1600	WATER	HCl	3-40 mL VOA VIALS									X	X		TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 03/04/2011 / 17:00		Received for Laboratory by: (*Signature*)														Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 3/5/11 / 0950		Airbill No.(s) 8700 5935 4097														SUB-SURFACE

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 29, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/05/2011
Group Number: 1235998
SDG: DX061
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-015-SA5A-SB-3.0-4.0 Soil	6223285
SL-233-SA5A-SB-4.0-5.0 Soil	6223286
SL-233-SA5A-SB-9.0-10.0 Soil	6223287

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5A-SB-3.0-4.0

LLI Sample # SW 6223285
LLI Group # 1235998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 09:16

Submitted: 03/05/2011 09:50
Reported: 03/29/2011 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6109 SDG#: DX061-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5A-SB-3.0-4.0

LLI Sample # SW 6223285
LLI Group # 1235998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 09:16

Submitted: 03/05/2011 09:50
Reported: 03/29/2011 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6109 SDG#: DX061-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0198 JQ	0.0107	1.18	1
11031	12378-PeCDD	40321-76-4	0.0204 JBQ	0.0107	5.92	1
11031	123478-HxCDD	39227-28-6	0.0116 U	0.0116	5.92	1
11031	123678-HxCDD	57653-85-7	0.0107 U	0.0107	5.92	1
11031	123789-HxCDD	19408-74-3	0.0256 JBQ	0.00959	5.92	1
11031	1234678-HpCDD	35822-46-9	0.230 JB	0.0156	5.92	1
11031	OCDD	3268-87-9	0.718 JB	0.0221	11.8	1
11031	2378-TCDF	51207-31-9	0.0184 JQ	0.00828	1.18	1
11031	12378-PeCDF	57117-41-6	0.0365 JBQ	0.00438	5.92	1
11031	23478-PeCDF	57117-31-4	0.0722 JB	0.00509	5.92	1
11031	123478-HxCDF	70648-26-9	0.0441 JBQ	0.0148	5.92	1
11031	123678-HxCDF	57117-44-9	0.0298 JB	0.00923	5.92	1
11031	123789-HxCDF	72918-21-9	0.0482 JQ	0.00876	5.92	1
11031	234678-HxCDF	60851-34-5	0.0852 JB	0.00663	5.92	1
11031	1234678-HpCDF	67562-39-4	0.202 JBQ	0.0107	5.92	1
11031	1234789-HpCDF	55673-89-7	0.0421 JB	0.0133	5.92	1
11031	OCDF	39001-02-0	0.262 JB	0.0279	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-015-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5A-SB-3.0-4.0

LLI Sample # SW 6223285
LLI Group # 1235998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 09:16

Submitted: 03/05/2011 09:50
Reported: 03/29/2011 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6109 SDG#: DX061-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5A-SB-3.0-4.0

LLI Sample # SW 6223285
LLI Group # 1235998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 09:16

Submitted: 03/05/2011 09:50
Reported: 03/29/2011 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6109 SDG#: DX061-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/22/2011 06:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401B	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-233-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-4.0-5.0

LLI Sample # SW 6223286
LLI Group # 1235998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:05

Submitted: 03/05/2011 09:50
Reported: 03/29/2011 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6110 SDG#: DX061-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-233-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-4.0-5.0

LLI Sample # SW 6223286
LLI Group # 1235998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:05

Submitted: 03/05/2011 09:50
Reported: 03/29/2011 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6110 SDG#: DX061-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0114	U	0.0114	1.13	1
11031	12378-PeCDD	40321-76-4	0.0133	U	0.0133	5.66	1
11031	123478-HxCDD	39227-28-6	0.0115	U	0.0115	5.66	1
11031	123678-HxCDD	57653-85-7	0.0181	JQ	0.0115	5.66	1
11031	123789-HxCDD	19408-74-3	0.0195	JBQ	0.00916	5.66	1
11031	1234678-HpCDD	35822-46-9	0.211	JB	0.0169	5.66	1
11031	OCDD	3268-87-9	0.597	JB	0.0208	11.3	1
11031	2378-TCDF	51207-31-9	0.0175	JQ	0.00871	1.13	1
11031	12378-PeCDF	57117-41-6	0.0133	JBQ	0.00520	5.66	1
11031	23478-PeCDF	57117-31-4	0.0592	JBQ	0.00577	5.66	1
11031	123478-HxCDF	70648-26-9	0.0438	JB	0.0135	5.66	1
11031	123678-HxCDF	57117-44-9	0.0210	JBQ	0.00962	5.66	1
11031	123789-HxCDF	72918-21-9	0.0226	J	0.00894	5.66	1
11031	234678-HxCDF	60851-34-5	0.0704	JBQ	0.00735	5.66	1
11031	1234678-HpCDF	67562-39-4	0.175	JB	0.00860	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0337	JBQ	0.0122	5.66	1
11031	OCDF	39001-02-0	0.240	JBQ	0.0269	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-233-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-4.0-5.0

LLI Sample # SW 6223286
LLI Group # 1235998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:05

Submitted: 03/05/2011 09:50
Reported: 03/29/2011 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6110 SDG#: DX061-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-233-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-4.0-5.0

LLI Sample # SW 6223286
LLI Group # 1235998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:05

Submitted: 03/05/2011 09:50
Reported: 03/29/2011 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6110 SDG#: DX061-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/22/2011 07:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401B	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-233-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-9.0-10.0

LLI Sample # SW 6223287
LLI Group # 1235998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:08

Submitted: 03/05/2011 09:50
Reported: 03/29/2011 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6111 SDG#: DX061-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-233-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-9.0-10.0

LLI Sample # SW 6223287
LLI Group # 1235998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:08

Submitted: 03/05/2011 09:50
Reported: 03/29/2011 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6111 SDG#: DX061-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244	JQ	0.0113	1.17	1
11031	12378-PeCDD	40321-76-4	0.122	JBQ	0.0127	5.83	1
11031	123478-HxCDD	39227-28-6	0.165	J	0.0163	5.83	1
11031	123678-HxCDD	57653-85-7	0.145	J	0.0163	5.83	1
11031	123789-HxCDD	19408-74-3	0.195	JB	0.0154	5.83	1
11031	1234678-HpCDD	35822-46-9	0.423	JB	0.0177	5.83	1
11031	OCDD	3268-87-9	1.13	JB	0.0277	11.7	1
11031	2378-TCDF	51207-31-9	0.0205	JQ	0.00921	1.17	1
11031	12378-PeCDF	57117-41-6	0.126	JBQ	0.00583	5.83	1
11031	23478-PeCDF	57117-31-4	0.154	JBQ	0.00664	5.83	1
11031	123478-HxCDF	70648-26-9	0.140	JB	0.0248	5.83	1
11031	123678-HxCDF	57117-44-9	0.189	JB	0.0155	5.83	1
11031	123789-HxCDF	72918-21-9	0.226	J	0.0207	5.83	1
11031	234678-HxCDF	60851-34-5	0.246	JB	0.0145	5.83	1
11031	1234678-HpCDF	67562-39-4	0.366	JB	0.00979	5.83	1
11031	1234789-HpCDF	55673-89-7	0.249	JBQ	0.0181	5.83	1
11031	OCDF	39001-02-0	0.699	JB	0.0366	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-233-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-9.0-10.0

LLI Sample # SW 6223287
LLI Group # 1235998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/04/2011 11:08

Submitted: 03/05/2011 09:50
Reported: 03/29/2011 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6111 SDG#: DX061-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-233-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5A-SB-9.0-10.0

LLI Sample # SW 6223287
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6111 SDG#: DX061-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/22/2011 08:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11066162401B	03/07/2011 19:49	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235998
Reported: 03/29/11 at 09:55 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11066162401B	Sample number(s): 6223285-6223287								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11077001	Sample number(s): 6223285-6223287								
2378-TCDD	0.0100 U	0.0100	1.00	ng/kg	110		67-158		
12378-PeCDD	0.0179 J	0.00970	5.00	ng/kg	112		70-142		
123478-HxCDD	0.00820 U	0.00820	5.00	ng/kg	110		70-164		
123678-HxCDD	0.00840 U	0.00840	5.00	ng/kg	109		76-134		
123789-HxCDD	0.0135 J	0.00740	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.130 J	0.0135	5.00	ng/kg	106		70-140		
OCDD	0.336 J	0.0147	10.0	ng/kg	107		78-144		
2378-TCDF	0.00810 U	0.00810	1.00	ng/kg	118		75-158		
12378-PeCDF	0.0209 J	0.00450	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0470 J	0.00470	5.00	ng/kg	106		68-160		
123478-HxCDF	0.0221 J	0.0101	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0193 J	0.00730	5.00	ng/kg	105		84-130		
123789-HxCDF	0.00630 U	0.00630	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0455 J	0.00530	5.00	ng/kg	107		70-156		
1234678-HpCDF	0.0994 J	0.00700	5.00	ng/kg	106		82-122		
1234789-HpCDF	0.0344 J	0.00800	5.00	ng/kg	105		78-138		
OCDF	0.169 J	0.0213	10.0	ng/kg	104		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11066162401B	Sample number(s): 6223285-6223287					BKG: P223281			
Moisture Content by 160.3						15.5	14.9	4	20
Batch number: 11077001	Sample number(s): 6223285-6223287					UNSPK: P220848			
2378-TCDD	107	110	67-158	2	25				
12378-PeCDD	109	112	70-142	2	25				
123478-HxCDD	108	110	70-164	2	25				
123678-HxCDD	109	110	76-134	1	25				
123789-HxCDD	107	107	64-162	0	25				
1234678-HpCDD	105	107	70-140	1	25				
OCDD	105	106	78-144	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235998
Reported: 03/29/11 at 09:55 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	114	117	75-158	3	25				
12378-PeCDF	107	106	80-134	0	25				
23478-PeCDF	106	107	68-160	1	25				
123478-HxCDF	104	106	72-134	1	25				
123678-HxCDF	105	104	84-130	0	25				
123789-HxCDF	103	105	78-130	1	25				
234678-HxCDF	106	106	70-156	0	25				
1234678-HpCDF	103	104	82-122	1	25				
1234789-HpCDF	105	106	78-138	1	25				
OCDF	103	104	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11077001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6223285	85	78	37	58	79	67
6223286	82	73	42	60	77	70
6223287	75	68	44	68	72	55
Blank	86	84	46	64	85	80
MS	70	70	64	76	72	63
MSD	70	72	67	80	74	66
OPR	88	78	38	53	81	81
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6223285	63	53	40	94	83	73
6223286	68	54	41	88	76	67
6223287	76	46	34	93	71	74
Blank	68	67	57	106	87	84
MS	82	58	52	89	72	76
MSD	85	53	44	84	72	76
OPR	52	62	49	88	80	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6223285	79	84	76	65	82	93
6223286	72	82	71	64	80	86
6223287	78	77	70	59	72	80
Blank	88	91	82	71	84	91
MS	79	76	71	64	69	76

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1235998
Reported: 03/29/11 at 09:55 AM

Surrogate Quality Control

MSD	79	78	66	58	71	81
OPR	77	86	73	63	84	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Qp# 1235998 Sample# 6223285-87

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
SL-015-SA5A-SB-3.0-4.0	3.04.11	0916	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X				
SL-015-SA5A-SB-3.5	3.04.11	0912	SOIL	NONE	4-Encores									X	X		
SL-233-SA5A-SB-4.0-5.0	3.04.11	1105	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X					
SL-233-SA5A-SB-4.5	3.04.11	1100	SOIL	NONE	4-Encores									X	X		
SL-233-SA5A-SB-9.0-10.0	3.04.11	1108	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X				
TB-0304111	3.04.11	1600	WATER	HCl	3-40 mL VOA VIALS									X	X		TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 03/04/2011 / 17:00		Received for Laboratory by: (*Signature*)														Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 3/5/11 / 0900		Airbill No.(s) 8700 5935 4097														SUB-SURFACE

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/08/2011
Group Number: 1236183
SDG: DE099
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-007-SA5A-SB-4.0-5.0 Soil	6224306
SL-007-SA5A-SB-9.0-10.0 Soil	6224307
SL-013-SA5A-SB-2.5-3.5 Soil	6224308
SL-012-SA5A-SB-2.0-3.0 Soil	6224309
TB-030711 Water	6224310

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-4.0-5.0

LLI Sample # SW 6224306
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 10:56

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE099-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.5		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.83
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.8		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.8		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.5		0.83
06192	Methylene Chloride	75-09-2	1.7	J	0.23	3.8		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.83

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-007-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-4.0-5.0

LLI Sample # SW 6224306
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 10:56

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE099-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.8		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13		19.62
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	37.2	J	19.0	37.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-007-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-4.0-5.0

LLI Sample # SW 6224306
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 10:56

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE099-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-007-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-4.0-5.0

LLI Sample # SW 6224306
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 10:56

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE099-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.8
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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Sample Description: SL-007-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-4.0-5.0

LLI Sample # SW 6224306
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 10:56

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE099-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,700		5.50	21.9		1
07914	Boron	7440-42-8	5.04	J	0.974	5.47		1

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Sample Description: **SL-007-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-4.0-5.0

LLI Sample # SW 6224306
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 10:56

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE099-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	1,890		6.71	21.9		1
01654	Iron	7439-89-6	17,300		5.15	21.9		1
01656	Lithium	7439-93-2	22.2		0.24	2.2		1
01657	Magnesium	7439-95-4	3,640		2.78	10.9		1
06958	Manganese	7439-96-5	278		0.0853	0.547		1
10145	Phosphorus	7723-14-0	291		0.613	10.9		1
01662	Potassium	7440-09-7	2,750		19.7	54.7		1
01667	Sodium	7440-23-5	91.4	J	40.8	109		1
07968	Strontium	7440-24-6	17.4		0.0678	0.547		1
06969	Tin	7440-31-5	2.70	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,180		0.416	1.09		1
10146	Zirconium	7440-67-7	1.60	J	0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.150	J	0.0669	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.79		0.0892	0.446		2
06126	Barium	7440-39-3	114		0.120	0.446		2
06127	Beryllium	7440-41-7	0.824		0.0178	0.112		2
06128	Cadmium	7440-43-9	0.0932	J	0.0446	0.112		2
06131	Chromium	7440-47-3	19.2		0.134	0.446		2
06132	Cobalt	7440-48-4	6.43		0.0223	0.112		2
06133	Copper	7440-50-8	9.22		0.0736	0.446		2
06135	Lead	7439-92-1	6.25		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.468		0.0558	0.112		2
06139	Nickel	7440-02-0	13.5		0.112	0.446		2
06141	Selenium	7782-49-2	0.0832	J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0449	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.338		0.0335	0.112		2
06148	Vanadium	7440-62-2	40.7		0.0245	0.112		2
06149	Zinc	7440-66-6	63.8		0.625	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1

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Sample Description: SL-007-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-4.0-5.0

LLI Sample # SW 6224306
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 10:56

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE099-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	332		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.63		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-007-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110691AA	03/10/2011	15:15	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110681AA	03/09/2011	10:53	Jason M Long	19.62
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106723839	03/08/2011	21:49	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106723839	03/08/2011	22:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106723839	03/08/2011	22:08	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106723839	03/08/2011	21:47	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11070SLA026	03/16/2011	15:45	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11074SLA026	03/22/2011	14:54	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011	16:39	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11070SLA026	03/12/2011	06:50	David V Hershey Jr	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11074SLA026	03/15/2011	14:00	Olivia I Santiago	1

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Sample Description: **SL-007-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-4.0-5.0

LLI Sample # SW 6224306
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 10:56

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14420 Albemarle Point Place
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SL074 SDG#: DE099-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34C	03/09/2011 12:37	Elizabeth J Marin	20.8
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201106723839	03/08/2011 21:45	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110710003A	03/16/2011 06:43	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 22:20	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 07:13	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110710003A	03/13/2011 16:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110760020A	03/19/2011 22:29	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110680024A	03/09/2011 21:23	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110680011A	03/10/2011 20:36	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110730020A	03/16/2011 11:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110760020A	03/18/2011 08:00	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110730020A	03/15/2011 02:45	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110680011A	03/09/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110680024A	03/09/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 07:32	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 14:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 14:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 14:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 14:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 14:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 14:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 14:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 14:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 14:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 11:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 14:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 14:28	Choon Y Tian	2

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Sample Description: **SL-007-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-4.0-5.0

LLI Sample # SW 6224306
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 10:56

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE099-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 14:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 14:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 14:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 14:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075495201A	03/18/2011 09:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11075495201A	03/18/2011 09:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201A	03/17/2011 17:33	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 13:52	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11073102201A	03/14/2011 15:38	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075495201A	03/17/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201A	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11073102201A	03/14/2011 10:00	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182102B	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402B	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-9.0-10.0

LLI Sample # SW 6224307
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 11:04

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE099-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.2		0.85
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.85
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.85
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.85
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.85
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.85
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.85
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.85
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.85
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.85
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.85
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.85
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.85
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.85
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.85
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.85
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.85
06192	Methylene Chloride	75-09-2	0.80	J	0.25	4.1		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.85

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Sample Description: **SL-007-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-9.0-10.0

LLI Sample # SW 6224307
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 11:04

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE099-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.85
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.85
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.85
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.85
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.85
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.85
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.19
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	21.4	J	20.2	40.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1

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SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-9.0-10.0

LLI Sample # SW 6224307
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 11:04

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE099-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1

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Sample Description: SL-007-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-9.0-10.0

LLI Sample # SW 6224307
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 11:04

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE099-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	0.81	U	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		19.84
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-9.0-10.0

LLI Sample # SW 6224307
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 11:04

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SL079 SDG#: DE099-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	730	U	730	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.5		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.5		1
10199	EFH (C21-C30)	n.a.	0.48	U	0.48	1.5		1
10199	EFH (C30 - C40)	n.a.	0.48	U	0.48	1.5		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.5		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	120	U	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700		5.98	23.8		1
07914	Boron	7440-42-8	4.87	J	1.06	5.94		1

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Sample Description: **SL-007-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-9.0-10.0

LLI Sample # SW 6224307
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 11:04

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Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL079 SDG#: DE099-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,410		7.28	23.8		1
01654	Iron	7439-89-6	19,200		5.60	23.8		1
01656	Lithium	7439-93-2	26.8		0.26	2.4		1
01657	Magnesium	7439-95-4	3,980		3.02	11.9		1
06958	Manganese	7439-96-5	163		0.0927	0.594		1
10145	Phosphorus	7723-14-0	169		0.665	11.9		1
01662	Potassium	7440-09-7	1,480		21.4	59.4		1
01667	Sodium	7440-23-5	118	J	44.3	119		1
07968	Strontium	7440-24-6	22.4		0.0737	0.594		1
06969	Tin	7440-31-5	3.00	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,290		0.452	1.19		1
10146	Zirconium	7440-67-7	1.62	J	0.998	5.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.190	J	0.0706	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.38		0.0941	0.471		2
06126	Barium	7440-39-3	109		0.127	0.471		2
06127	Beryllium	7440-41-7	1.14		0.0188	0.118		2
06128	Cadmium	7440-43-9	0.0886	J	0.0471	0.118		2
06131	Chromium	7440-47-3	25.0		0.141	0.471		2
06132	Cobalt	7440-48-4	6.29		0.0235	0.118		2
06133	Copper	7440-50-8	9.12		0.0777	0.471		2
06135	Lead	7439-92-1	7.81		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.505		0.0588	0.118		2
06139	Nickel	7440-02-0	14.4		0.118	0.471		2
06141	Selenium	7782-49-2	0.0884	J	0.0471	0.471		2
06142	Silver	7440-22-4	0.0984	J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.296		0.0353	0.118		2
06148	Vanadium	7440-62-2	51.9		0.0259	0.118		2
06149	Zinc	7440-66-6	56.9		0.659	3.53		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.119		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.97	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.9		0.97	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.24	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-007-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-9.0-10.0

LLI Sample # SW 6224307
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 11:04

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE099-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.61		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	322		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	17.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-007-SA5A-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110691AA	03/10/2011 15:38	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110681AA	03/09/2011 11:13	Jason M Long	21.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106723839	03/08/2011 21:55	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106723839	03/08/2011 22:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106723839	03/08/2011 22:08	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106723839	03/08/2011 21:52	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11070SLA026	03/16/2011 16:01	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11074SLA026	03/22/2011 15:19	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011 17:10	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11070SLA026	03/12/2011 06:50	David V Hershey Jr	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11074SLA026	03/15/2011 14:00	Olivia I Santiago	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-007-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-9.0-10.0

LLI Sample # SW 6224307
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 11:04

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE099-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34C	03/09/2011 13:13	Elizabeth J Marin	19.84
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201106723839	03/08/2011 21:51	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110710003A	03/16/2011 07:25	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 22:29	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 07:31	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110710003A	03/13/2011 16:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110760020A	03/19/2011 22:54	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110680024A	03/09/2011 22:07	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110680011A	03/10/2011 20:53	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110730020A	03/16/2011 11:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110760020A	03/18/2011 08:00	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110730020A	03/15/2011 02:45	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110680011A	03/09/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110680024A	03/09/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 07:36	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 14:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 14:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 14:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 14:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 14:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 14:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 14:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 14:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 14:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 11:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 14:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 14:31	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-9.0-10.0

LLI Sample # SW 6224307
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 11:04

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE099-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 14:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 14:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 14:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 14:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075495201A	03/18/2011 09:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11075495201A	03/18/2011 09:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201A	03/17/2011 18:45	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 14:11	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11073102201A	03/14/2011 15:39	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075495201A	03/17/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201A	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11073102201A	03/14/2011 10:00	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182102B	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402B	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-013-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SB-2.5-3.5

LLI Sample # SW 6224308
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 15:24

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE099-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.94
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.94
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.94
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.94
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.94
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		0.94
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.4		0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.94
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.4		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.4		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.4		0.94
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.94
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.94
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		0.94
06192	Methylene Chloride	75-09-2	1.0	J	0.26	4.4		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.94

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SB-2.5-3.5

LLI Sample # SW 6224308
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 15:24

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE099-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.94
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.94
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.94
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.94
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.4		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.4		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.4
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1

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Sample Description: SL-013-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SB-2.5-3.5

LLI Sample # SW 6224308
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 15:24

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE099-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1

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Sample Description: SL-013-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SB-2.5-3.5

LLI Sample # SW 6224308
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 15:24

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE099-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,700		5.59	22.2		1
07914	Boron	7440-42-8	6.17		0.989	5.56		1
01650	Calcium	7440-70-2	2,590		6.81	22.2		1
01654	Iron	7439-89-6	24,800		5.24	22.2		1
01656	Lithium	7439-93-2	39.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,090		2.82	11.1		1
06958	Manganese	7439-96-5	192		0.0867	0.556		1
10145	Phosphorus	7723-14-0	137		0.622	11.1		1
01662	Potassium	7440-09-7	1,280		20.0	55.6		1
01667	Sodium	7440-23-5	171		41.5	111		1
07968	Strontium	7440-24-6	19.2		0.0689	0.556		1
06969	Tin	7440-31-5	3.23	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,330		0.422	1.11		1
10146	Zirconium	7440-67-7	1.79	J	0.934	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.239		0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	15.6		0.0907	0.453		2
06126	Barium	7440-39-3	107		0.122	0.453		2
06127	Beryllium	7440-41-7	0.973		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0914	J	0.0453	0.113		2
06131	Chromium	7440-47-3	30.5		0.136	0.453		2

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Sample Description: SL-013-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SB-2.5-3.5

LLI Sample # SW 6224308
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 15:24

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE099-03

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt		7440-48-4	5.86	0.0227	0.113		2
06133	Copper		7440-50-8	7.09	0.0748	0.453		2
06135	Lead		7439-92-1	11.2	0.0118	0.227		2
06138	Molybdenum		7439-98-7	0.588	0.0567	0.113		2
06139	Nickel		7440-02-0	16.3	0.113	0.453		2
06141	Selenium		7782-49-2	0.0682 J	0.0453	0.453		2
06142	Silver		7440-22-4	0.102 J	0.0136	0.113		2
06145	Thallium		7440-28-0	0.399	0.0340	0.113		2
06148	Vanadium		7440-62-2	63.1	0.0249	0.113		2
06149	Zinc		7440-66-6	63.4	0.635	3.40		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0031 U	0.0031	0.110		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	4.0	0.92	1.2		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.4 U	10.4	34.7		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.23 U	0.23	1.2		1
		ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	314	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.54	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	13.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-013-SA5A-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-013-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SB-2.5-3.5

LLI Sample # SW 6224308
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 15:24

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE099-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110691AA	03/10/2011 16:00	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110681AA	03/09/2011 11:32	Jason M Long	22.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106723839	03/08/2011 21:59	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106723839	03/08/2011 22:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106723839	03/08/2011 22:08	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106723839	03/08/2011 21:57	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11074SLA026	03/22/2011 15:44	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/21/2011 17:41	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11074SLA026	03/15/2011 14:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 07:50	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 07:40	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 14:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 14:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 14:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 14:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 14:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 14:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 14:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 14:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 14:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 11:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 14:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 14:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 14:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 14:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 14:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 14:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:40	Damary Valentin	1

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Sample Description: **SL-013-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SB-2.5-3.5

LLI Sample # SW 6224308
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 15:24

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE099-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075495201A	03/18/2011 09:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201A	03/17/2011 19:09	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 14:24	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075495201A	03/17/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201A	03/17/2011 12:00	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182102B	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402B	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SB-2.0-3.0

LLI Sample # SW 6224309
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 16:09

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE099-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.8		0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.84
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.84
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.84
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.84
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.84
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.84
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.84
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.84
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.84
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.84
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.84
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.84
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.84
06192	Methylene Chloride	75-09-2	0.86	J	0.23	3.9		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.84

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Sample Description: SL-012-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SB-2.0-3.0

LLI Sample # SW 6224309
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 16:09

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE099-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.84
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.84
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.84
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.84
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.84
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.84
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.51
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.4	U	19.4	38.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1

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Sample Description: SL-012-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SB-2.0-3.0

LLI Sample # SW 6224309
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 16:09

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE099-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.9	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	5.3		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	3.2		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	J	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	81		7.0	21		1
10138	Fluoranthene	206-44-0	2.9		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.77	1.9		1

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Sample Description: **SL-012-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SB-2.0-3.0

LLI Sample # SW 6224309
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 16:09

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE099-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	12	J	7.0	21		1
10138	Phenanthrene	85-01-8	1.5	J	0.77	1.9		1
10138	Pyrene	129-00-0	2.0		0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.12
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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Sample Description: SL-012-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SB-2.0-3.0

LLI Sample # SW 6224309
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 16:09

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE099-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.87	J	0.38	2.0		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	23	U	23	70		50
10199	EFH (C15-C20)	n.a.	23	U	23	70		50
10199	EFH (C21-C30)	n.a.	580		23	70		50
10199	EFH (C30 - C40)	n.a.	1,700		23	70		50
10199	EFH (C8-C11)	n.a.	23	U	23	70		50
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.79	23.0		1
07914	Boron	7440-42-8	4.21	J	1.02	5.76		1

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Sample Description: **SL-012-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SB-2.0-3.0

LLI Sample # SW 6224309
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 16:09

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE099-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	1,970		7.06	23.0		1
01654	Iron	7439-89-6	16,700		5.42	23.0		1
01656	Lithium	7439-93-2	27.3		0.25	2.3		1
01657	Magnesium	7439-95-4	3,570		2.92	11.5		1
06958	Manganese	7439-96-5	135		0.0898	0.576		1
10145	Phosphorus	7723-14-0	200		0.645	11.5		1
01662	Potassium	7440-09-7	1,500		20.7	57.6		1
01667	Sodium	7440-23-5	121		42.9	115		1
07968	Strontium	7440-24-6	17.7		0.0714	0.576		1
06969	Tin	7440-31-5	2.85	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,110		0.437	1.15		1
10146	Zirconium	7440-67-7	1.22	J	0.967	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0691	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.05		0.0921	0.461		2
06126	Barium	7440-39-3	56.8		0.124	0.461		2
06127	Beryllium	7440-41-7	0.531		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.0463	J	0.0461	0.115		2
06131	Chromium	7440-47-3	13.6		0.138	0.461		2
06132	Cobalt	7440-48-4	3.57		0.0230	0.115		2
06133	Copper	7440-50-8	4.82		0.0760	0.461		2
06135	Lead	7439-92-1	4.25		0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.380		0.0576	0.115		2
06139	Nickel	7440-02-0	7.73		0.115	0.461		2
06141	Selenium	7782-49-2	0.0461	U	0.0461	0.461		2
06142	Silver	7440-22-4	0.0331	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.198		0.0345	0.115		2
06148	Vanadium	7440-62-2	29.6		0.0253	0.115		2
06149	Zinc	7440-66-6	39.3		0.645	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.23	1.2		1

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Sample Description: SL-012-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SB-2.0-3.0

LLI Sample # SW 6224309
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 16:09

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE099-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	320		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.80		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-012-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110691AA	03/10/2011	16:23	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110681AA	03/09/2011	11:52	Jason M Long	21.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106723839	03/08/2011	22:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106723839	03/08/2011	22:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106723839	03/08/2011	22:08	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106723839	03/08/2011	22:02	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11070SLA026	03/16/2011	16:18	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11074SLA026	03/22/2011	16:09	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/22/2011	10:03	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11070SLA026	03/12/2011	06:50	David V Hershey Jr	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11074SLA026	03/15/2011	14:00	Olivia I Santiago	1

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Sample Description: **SL-012-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SB-2.0-3.0

LLI Sample # SW 6224309
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 16:09

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE099-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11060A34C	03/09/2011 13:50	Elizabeth J Marin	22.12
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201106723839	03/08/2011 22:01	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110710003A	03/16/2011 09:32	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 22:39	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 08:08	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110710003A	03/13/2011 16:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110760020A	03/21/2011 19:13	Tracy A Cole	50
10501	19a Alcohols by 8015B	SW-846 8015B	1	110680024A	03/09/2011 22:22	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110680011A	03/10/2011 21:11	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110730020A	03/16/2011 15:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110760020A	03/18/2011 08:00	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110730020A	03/15/2011 02:45	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110680011A	03/09/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110680024A	03/09/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110695708004	03/11/2011 07:44	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110691026002A	03/12/2011 14:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110691026002A	03/12/2011 14:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110691026002D	03/12/2011 14:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110691026002A	03/12/2011 14:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110691026002A	03/12/2011 14:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110691026002A	03/12/2011 14:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110691026002A	03/12/2011 14:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110691026002A	03/12/2011 14:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110691026002A	03/12/2011 14:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110691026002C	03/16/2011 11:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110691026002A	03/12/2011 14:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110691026002B	03/12/2011 14:37	Choon Y Tian	2

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Sample Description: **SL-012-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SB-2.0-3.0

LLI Sample # SW 6224309
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 16:09

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE099-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	110691026002A	03/12/2011 14:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110691026002A	03/12/2011 14:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110691026002A	03/12/2011 14:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110691026002A	03/12/2011 14:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110695711003	03/11/2011 05:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110695708004	03/10/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110691026002	03/10/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110695711003	03/10/2011 21:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075495201A	03/18/2011 10:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11075495201A	03/18/2011 10:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201A	03/17/2011 19:57	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 14:30	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11073102201A	03/14/2011 15:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075495201A	03/17/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201A	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11073102201A	03/14/2011 10:00	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11067182102B	03/08/2011 10:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11067039402B	03/08/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-030711 Water
SSFL Area IV Collocated Soil Sampling
TB-030711

LLI Sample # WW 6224310
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 08:00

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB307 SDG#: DE099-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-030711 Water
SSFL Area IV Collocated Soil Sampling
TB-030711

LLI Sample # WW 6224310
LLI Group # 1236183
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 08:00

Submitted: 03/08/2011 09:20
Reported: 03/31/2011 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB307 SDG#: DE099-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110691AA	03/10/2011	13:00	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110682AA	03/09/2011	15:35	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110682AA	03/09/2011	15:35	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110691AA	03/10/2011	13:00	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11072B20A	03/14/2011	13:15	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11072B20A	03/14/2011	13:15	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236183
Reported: 03/31/11 at 09:40 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110691AA	Sample number(s): 6224306-6224309									
Acetone	6.7	U	6.7	8.0	ug/kg	113	108	32-209	5	30
Benzene	0.10	U	0.10	4.0	ug/kg	97	98	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	97	99	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	118	119	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	91	92	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	83	83	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	68	69	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	107	104	46-153	3	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	101	102	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	104	104	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	95	97	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	88	88	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	92	94	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	68	70	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	100	99	43-146	1	30
Chloroform	0.12	U	0.12	4.0	ug/kg	96	97	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	70	72	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97	98	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95	97	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	101	98	22-131	2	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	95	95	58-120	0	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	86	86	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95	97	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97	99	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	94	94	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	94	95	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	94	96	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	54	54	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	95	96	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97	99	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101	101	73-123	0	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	97	99	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	96	97	79-120	1	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	94	96	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	95	97	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	87	90	72-123	3	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	95	94	77-120	0	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88	90	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86	87	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	94	94	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	101	99	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	111	108	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	93	95	57-120	3	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	106	104	45-155	2	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	94	94	76-120	0	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	101	102	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236183
Reported: 03/31/11 at 09:40 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	97	97	74-121	0	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	102	101	61-134	1	30
Methylene Chloride	0.68	J	0.24	4.0	ug/kg	103	104	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	102	103	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	90	91	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	87	88	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	101	101	71-123	0	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	91	91	77-120	0	30
Toluene	0.08	U	0.08	4.0	ug/kg	94	95	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94	94	64-120	0	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	92	94	68-120	2	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	93	94	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	95	96	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	93	94	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	81	82	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	104	102	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	99	101	79-120	2	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	99	100	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	74	74	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	92	92	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	90	91	80-120	2	30
Batch number: E110681AA	Sample number(s): 6224306-6224309									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	112	108	70-130	4	30
Batch number: E110682AA	Sample number(s): 6224310									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	113	80-123	9	30
Batch number: Y110691AA	Sample number(s): 6224310									
Acetone	6	U	6.	20	ug/l	87	88	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	95	97	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	97	99	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	97	98	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	94	94	80-120	0	30
Bromoform	1	U	1.	5	ug/l	73	76	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	87	88	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	104	104	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	95	96	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	98	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	92	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	99	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	93	94	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	83	85	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	116	114	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	101	101	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	81	82	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	98	99	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	96	97	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	81	82	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	80	83	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	86	86	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	95	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	98	99	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	93	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	95	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	77	76	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	99	79-120	0	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236183
Reported: 03/31/11 at 09:40 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	110	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	89	88	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	96	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	99	101	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	97	97	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	100	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	93	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	88	86	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	100	102	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	83	88	58-120	6	30
2-Hexanone	3	U	3.	10	ug/l	99	100	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	92	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	96	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	99	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	98	100	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	93	94	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	100	102	80-120	2	30
Styrene	1	U	1.	5	ug/l	88	89	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	91	92	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	92	96	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	93	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	92	94	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	79	84	65-120	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	88	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	88	87	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	93	97	80-120	4	30
Trichloroethene	1	U	1.	5	ug/l	96	96	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	95	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	100	101	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	99	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	98	99	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	80	81	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	91	92	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	90	90	80-120	1	30
Batch number: 11070SLA026	Sample number(s): 6224306-6224307,6224309									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	85		70-130		
Batch number: 11074SLA026	Sample number(s): 6224306-6224309									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	29		15-121		
Benzoic acid	170 U		170.	500	ug/kg	92		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	95		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		79-117		
Di-n-butylphthalate	17	U	17.	170	ug/kg	95		79-112		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	24		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	91		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236183
Reported: 03/31/11 at 09:40 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	89		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	70		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	52		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	78		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	74		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	90		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	88		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	83		68-105		
Isophorone	17	U	17.	170	ug/kg	86		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	98		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	91		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	83		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	84		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	89		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	85		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	90		51-117		
Phenol	17	U	17.	170	ug/kg	93		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 11074SLB026	Sample number(s): 6224306-6224309									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	93		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	100		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	106		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	120		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Chrysene	0.33	U	0.33	1.7	ug/kg	100		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	121		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236183
Reported: 03/31/11 at 09:40 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	99		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	120		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	92		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	123		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	91		56-121		
Batch number: 11060A34C	Sample number(s): 6224306-6224307,6224309									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69		67-119		
Batch number: 11072B20A	Sample number(s): 6224310									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	91	75-135	18	30
Batch number: 110710003A	Sample number(s): 6224306-6224307,6224309									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	116		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	121	115	54-134	5	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	120	114	54-134	5	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	112		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
HMX	100 U		100.	300	ug/kg	102		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	101		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	109		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	107		80-120		
PETN	800 U		800.	2,400	ug/kg	116		80-120		
RDX	50	U	50.	120	ug/kg	102		75-131		
Tetryl	61	U	61.	120	ug/kg	108		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 110730008A	Sample number(s): 6224306-6224307,6224309									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	96		80-126		
Batch number: 110750014A	Sample number(s): 6224306-6224309									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	78	74	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236183
Reported: 03/31/11 at 09:40 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110760020A	Sample number(s): 6224306-6224307,6224309									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C21-C30)	0.48	J	0.40	1.2	mg/kg	104		66-113		
EFH (C30 - C40)	2.6		0.40	1.2	mg/kg	96		66-113		
EFH (C8-C11)	0.47	J	0.40	1.2	mg/kg	74		66-113		
Batch number: 110680011A	Sample number(s): 6224306-6224307,6224309									
Diethylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	111		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Batch number: 110680024A	Sample number(s): 6224306-6224307,6224309									
Ethanol	100 U		100.	500	ug/kg	98		75-112		
Isopropanol	100 U		100.	500	ug/kg	100		75-125		
Methanol	100 U		100.	500	ug/kg	91		75-134		
Batch number: 110730020A	Sample number(s): 6224306-6224307,6224309									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	80		75-125		
Batch number: 110691026002A	Sample number(s): 6224306-6224309									
Antimony	0.0600	U	0.0600	0.200	mg/kg	124		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	108		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	108		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	112		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	108		82-118		
Copper	0.241	J	0.0660	0.400	mg/kg	105		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	109		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	109		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	110		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	105		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	105		78-122		
Batch number: 110691026002B	Sample number(s): 6224306-6224309									
Selenium	0.0400	U	0.0400	0.400	mg/kg	106		79-122		
Batch number: 110691026002C	Sample number(s): 6224306-6224309									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 110691026002D	Sample number(s): 6224306-6224309									
Barium	0.108	U	0.108	0.400	mg/kg	107		79-121		
Batch number: 110695708004	Sample number(s): 6224306-6224309									
Aluminum	5.03	U	5.03	20.0	mg/kg	105		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	98		78-110		
Calcium	7.51	J	6.13	20.0	mg/kg	96		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	97		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	107		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	99		82-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236183
Reported: 03/31/11 at 09:40 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.0780	U	0.0780	0.500	mg/kg	104		81-119		
Phosphorus	1.37	J	0.560	10.0	mg/kg	109		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	100		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	105		79-121		
Tin	1.47	J	1.00	10.0	mg/kg	99		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	117		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	106		80-120		
Batch number: 110695711003	Sample number(s): 6224306-6224309									
Mercury	0.0028	U	0.0028	0.0992	mg/kg	100		88-123		
Batch number: 11073102201A	Sample number(s): 6224306-6224307,6224309									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11074243201A	Sample number(s): 6224306-6224309									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11075495201A	Sample number(s): 6224306-6224309									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	107		90-110		
Batch number: 11076076201A	Sample number(s): 6224306-6224309									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11067039402B	Sample number(s): 6224306-6224309									
18a pH by 9045C						100		95-105		
Batch number: 11067182102B	Sample number(s): 6224306-6224309									
32a OR Potential						100		98-102		
Batch number: 11070162401B	Sample number(s): 6224308									
Moisture Content by 160.3						100		80-120		
Batch number: 11077162401A	Sample number(s): 6224306-6224307,6224309									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11070SLA026	Sample number(s): 6224306-6224307,6224309 UNSPK: P222144								
N-Nitrosodimethylamine	77	72	70-130	6	30				
Batch number: 11074SLA026	Sample number(s): 6224306-6224309 UNSPK: P223281								
Aniline	73	75	35-95	2	30				
Benzidine	29*	32*	35-141	8	30				
Benzoic acid	73	65	10-173	11	30				
Benzyl alcohol	89	89	67-115	0	30				
4-Bromophenyl-phenylether	90	91	67-129	0	30				
Di-n-butylphthalate	90	90	67-123	0	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbazole	91	91	64-120	1	30				
4-Chloro-3-methylphenol	89	88	76-110	2	30				
4-Chloroaniline	62	60	23-95	3	30				
bis(2-Chloroethoxy)methane	87	86	75-104	1	30				
bis(2-Chloroethyl)ether	84	83	60-116	1	30				
bis(2-Chloroisopropyl)ether	84	82	55-142	3	30				
2-Chloronaphthalene	70	71	50-141	1	30				
2-Chlorophenol	92	90	73-121	2	30				
4-Chlorophenyl-phenylether	95	94	80-109	1	30				
Dibenzofuran	92	93	71-112	1	30				
1,2-Dichlorobenzene	82	81	66-108	1	30				
1,3-Dichlorobenzene	79	76	63-109	3	30				
1,4-Dichlorobenzene	79	78	70-100	2	30				
3,3'-Dichlorobenzidine	64	65	16-119	2	30				
2,4-Dichlorophenol	93	92	78-117	1	30				
2,4-Dimethylphenol	89	88	78-110	0	30				
3,5-Dimethylphenol	100	96	70-130	4	30				
4,6-Dinitro-2-methylphenol	78	79	24-116	1	30				
2,4-Dinitrophenol	71	72	20-143	1	30				
2,4-Dinitrotoluene	92	94	73-113	2	30				
2,6-Dinitrotoluene	92	93	69-123	1	30				
1,2-Diphenylhydrazine	88	88	71-129	0	30				
Hexachlorobenzene	92	92	77-114	1	30				
Hexachlorobutadiene	83	82	62-120	2	30				
Hexachlorocyclopentadiene	85	75	10-153	12	30				
Hexachloroethane	74	73	57-109	1	30				
Isophorone	83	82	73-102	1	30				
2-Methylphenol	92	90	75-111	2	30				
4-Methylphenol	95	87	71-111	9	30				
2-Nitroaniline	90	93	67-125	3	30				
3-Nitroaniline	89	89	59-122	1	30				
4-Nitroaniline	74	74	52-112	0	30				
Nitrobenzene	81	81	72-106	0	30				
2-Nitrophenol	84	86	74-115	2	30				
4-Nitrophenol	80	81	54-113	2	30				
N-Nitroso-di-n-propylamine	80	80	60-116	0	30				
N-Nitrosodiphenylamine	94	95	86-145	1	30				
Pentachlorophenol	81	83	28-127	3	30				
Phenol	90	89	58-126	1	30				
1,2,4-Trichlorobenzene	87	87	72-115	0	30				
2,4,5-Trichlorophenol	92	92	78-109	0	30				
2,4,6-Trichlorophenol	89	90	77-115	2	30				
Batch number: 11074SLB026	Sample number(s): 6224306-6224309 UNSPK: P222138								
Acenaphthene	96	96	63-105	1	30				
Acenaphthylene	97	96	67-114	1	30				
Anthracene	101	101	60-122	0	30				
Benzo(a)anthracene	104	102	59-128	2	30				
Benzo(a)pyrene	110	110	45-138	0	30				
Benzo(b)fluoranthene	114	121	43-155	6	30				
Benzo(g,h,i)perylene	115	126	33-141	9	30				
Benzo(k)fluoranthene	113	103	42-144	10	30				
Butylbenzylphthalate	114	104	57-173	9	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chrysene	103	102	48-134	2	30				
Dibenz(a,h)anthracene	120	128	22-133	7	30				
Diethylphthalate	111	102	70-136	9	30				
Dimethylphthalate	110	111	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	117	107	39-167	9	30				
Fluoranthene	111	104	26-166	6	30				
Fluorene	105	101	66-122	3	30				
Indeno(1,2,3-cd)pyrene	117	126	21-143	7	30				
1-Methylnaphthalene	99	99	72-123	0	30				
2-Methylnaphthalene	90	90	64-103	0	30				
Naphthalene	98	98	61-102	0	30				
N-Nitrosodimethylamine	99	97	48-113	2	30				
Di-n-octylphthalate	124	115	40-192	8	30				
Phenanthrene	98	98	12-165	0	30				
Pyrene	90	87	15-153	4	30				
Batch number: 11060A34C	Sample number(s): 6224306-6224307,6224309 UNSPK: P214502								
9a TPH by EPA 8015B Gas C5-C12	105	108	39-118	4	30				
Batch number: 110710003A	Sample number(s): 6224306-6224307,6224309 UNSPK: P222144								
4-Amino-2,6-Dinitrotoluene	89	92	80-127	3	50				
2-Amino-4,6-Dinitrotoluene	87	89	80-137	2	50				
1,3-Dinitrobenzene	90	92	38-166	3	50				
2,4-Dinitrotoluene	87	89	80-131	3	50				
2,6-Dinitrotoluene	91	93	80-127	2	50				
HMX	75	77	63-128	2	50				
Nitrobenzene	88	91	80-125	4	50				
Nitroglycerin	83	85	80-120	3	50				
2-Nitrotoluene	90	91	80-122	1	50				
3-Nitrotoluene	90	91	72-119	1	50				
4-Nitrotoluene	88	90	80-125	2	50				
PETN	89	91	80-121	3	50				
RDX	74*	77	75-129	4	50				
Tetryl	75	72	55-174	4	50				
1,3,5-Trinitrobenzene	89	90	82-126	2	50				
2,4,6-Trinitrotoluene	88	91	82-130	3	50				
Batch number: 110730008A	Sample number(s): 6224306-6224307,6224309 UNSPK: P228978								
25a Formaldehyde 8315A	99	95	80-120	4	50				
Batch number: 110750014A	Sample number(s): 6224306-6224309 UNSPK: P228978								
PCB-1016	88	94	29-146	7	50				
PCB-1260	95	107	39-149	12	50				
Batch number: 110760020A	Sample number(s): 6224306-6224307,6224309 UNSPK: P228978								
EFH (C12-C14)	81	79	49-123	3	20				
EFH (C15-C20)	101	102	49-123	2	20				
EFH (C21-C30)	107	179*	49-123	51*	20				
EFH (C30 - C40)	54	118	49-123	45*	20				
EFH (C8-C11)	81	73	49-123	11	20				
Batch number: 110680011A	Sample number(s): 6224306-6224307,6224309 UNSPK: 6224306								
Diethylene glycol	85	81	59-109	5	20				

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236183
Reported: 03/31/11 at 09:40 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylene glycol	88	86	63-107	1	20				
Propylene glycol	83	82	63-107	1	20				
Batch number: 110680024A	Sample number(s): 6224306-6224307,6224309 UNSPK: 6224306								
Ethanol	82	81	24-143	1	20				
Isopropanol	86	85	75-125	1	20				
Methanol	80	80	45-136	0	20				
Batch number: 110730020A	Sample number(s): 6224306-6224307,6224309 UNSPK: P222144								
m-Terphenyl	78	78	75-125	1	20				
o-Terphenyl	93	95	75-125	2	20				
p-Terphenyl	77	77	75-125	1	20				
Batch number: 110691026002A	Sample number(s): 6224306-6224309 UNSPK: P218905 BKG: P218905								
Antimony	201*	94	75-125	66*	20	0.143 J	0.0970 J	38* (1)	20
Arsenic	136*	150*	75-125	4	20	5.04	3.17	46*	20
Beryllium	136*	163*	75-125	13	20	0.536	0.391	31* (1)	20
Cadmium	145*	159*	75-125	8	20	0.343	0.202	52* (1)	20
Chromium	122	150*	75-125	9	20	18.9	13.2	35*	20
Cobalt	129*	138*	75-125	7	20	5.40	4.02	29*	20
Copper	128*	146*	75-125	9	20	6.13	4.90	22*	20
Lead	148*	200*	75-125	16	20	4.80	3.95	19	20
Nickel	131*	144*	75-125	6	20	9.98	7.31	31*	20
Silver	144*	146*	75-125	2	20	0.0214 J	0.0166 J	25* (1)	20
Thallium	138*	151*	75-125	8	20	0.206	0.170	19 (1)	20
Vanadium	116	159*	75-125	8	20	37.3	26.3	34*	20
Zinc	-91 (2)	271 (2)	75-125	24*	20	139	90.0	43*	20
Batch number: 110691026002B	Sample number(s): 6224306-6224309 UNSPK: P218905 BKG: P218905								
Selenium	112	123	75-125	10	20	0.127 J	0.115 J	10 (1)	20
Batch number: 110691026002C	Sample number(s): 6224306-6224309 UNSPK: P218905 BKG: P218905								
Molybdenum	101	99	75-125	1	20	0.330	0.365	10 (1)	20
Batch number: 110691026002D	Sample number(s): 6224306-6224309 UNSPK: P218905 BKG: P218905								
Barium	86 (2)	154 (2)	75-125	8	20	74.2	51.8	36*	20
Batch number: 110695708004	Sample number(s): 6224306-6224309 UNSPK: P218905 BKG: P218905								
Aluminum	1026 (2)	1025 (2)	75-125	0	20	10,800	10,100	7	20
Boron	100	102	84-115	2	20	3.94 J	3.60 J	9 (1)	20
Calcium	-104 (2)	9 (2)	75-125	12	20	3,880	3,230	18	20
Iron	1003 (2)	1059 (2)	75-125	0	20	14,800	14,000	5	20
Lithium	105	104	82-114	1	20	16.3	15.1	8	20
Magnesium	301 (2)	211 (2)	75-125	4	20	3,530	3,380	4	20
Manganese	105 (2)	148 (2)	75-125	8	20	217	217	0	20
Phosphorus	63*	97	75-125	9	20	312	320	3	20
Potassium	123	121	75-125	1	20	1,800	1,730	4	20
Sodium	100	99	75-125	1	20	77.8 J	75.3 J	3 (1)	20
Strontium	101	104	75-115	2	20	15.7	14.3	9	20
Tin	92	91	80-110	2	20	2.32 J	2.20 J	5 (1)	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236183
Reported: 03/31/11 at 09:40 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Titanium	304 (2)	273 (2)	75-125	2	20	959		935		3	20
Zirconium	99	98	75-125	1	20	1.21	J	1.76	J	37* (1)	20
Batch number: 110695711003	Sample number(s): 6224306-6224309 UNSPK: P218905 BKG: P218905										
Mercury	103	100	65-135	3	20	0.0118	J	0.0119	J	1 (1)	20
Batch number: 11073102201A	Sample number(s): 6224306-6224307,6224309 UNSPK: P222144 BKG: P222144										
17a Cyanide by 9012B	105		75-125			0.17	U	0.17	U	0 (1)	20
Batch number: 11074243201A	Sample number(s): 6224306-6224309 UNSPK: P228978 BKG: P228978										
3a Cr VI by EPA 7199	89		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11075495201A	Sample number(s): 6224306-6224309 UNSPK: P223281 BKG: P223281										
11a Anions by 300.0 - Fluoride	49*		80-120			4.6		4.0		13 (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			2.8		2.0		32* (1)	20
Batch number: 11076076201A	Sample number(s): 6224306-6224309 UNSPK: 6224306 BKG: 6224306										
7a Perchlorate EPA 314.0	115		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11067039402B	Sample number(s): 6224306-6224309 BKG: P223283										
18a pH by 9045C						7.35		7.32		0	1
Batch number: 11067182102B	Sample number(s): 6224306-6224309 BKG: P223283										
32a OR Potential						306		308		0	6
Batch number: 11070162401B	Sample number(s): 6224308 BKG: P220827										
Moisture Content by 160.3						8.2		9.0		10	20
Batch number: 11077162401A	Sample number(s): 6224306-6224307,6224309 BKG: P226876										
Moisture Content by 160.3						13.6		13.7		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6224306	100	101	99	96
6224307	98	100	98	96
6224308	98	101	96	96
6224309	97	96	98	94
Blank	99	102	97	97
LCS	101	103	101	99
LCSD	100	103	100	99
Limits:	80-120	80-120	81-117	74-121

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236183
Reported: 03/31/11 at 09:40 AM

Surrogate Quality Control

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110681AA

	Toluene-d8
6224306	94
6224307	94
6224308	95
6224309	94
Blank	95
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110682AA

	Toluene-d8
6224310	96
Blank	96
LCS	96
LCSD	96
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6224310	103	100	101	97
Blank	105	99	102	100
LCS	104	99	101	99
LCSD	103	103	101	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11070SLA026

	N-Nitrosodimethylamine-d6
6224306	95
6224307	90
6224309	85
Blank	85
LCS	83
MS	85
MSD	88
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11074SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6224306	81	85	90	72	84	85
6224307	84	87	89	72	83	88

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236183
Reported: 03/31/11 at 09:40 AM

Surrogate Quality Control

6224308	83	84	90	72	85	86
6224309	94	94	90	76	88	96
Blank	84	87	89	77	86	83
LCS	95	96	101	82	91	91
MS	91	92	97	79	91	89
MSD	89	90	97	79	91	90
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11074SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6224306	94	87	94
6224307	98	91	92
6224308	96	91	89
6224309	100	92	77
Blank	98	93	100
LCS	97	91	94
MS	103	94	93
MSD	102	95	90
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11060A34C

	Trifluorotoluene-F
6224306	74
6224307	75
6224309	79
Blank	86
LCS	88
MS	109
MSD	107
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11072B20A

	Trifluorotoluene-F
6224310	77
Blank	78
LCS	101
LCSD	98
Limits:	63-135

Analysis Name: 16a Energetics by 8330A
Batch number: 110710003A

	2-Nitro-m-xylene
6224306	101
6224307	102
6224309	106
Blank	115

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236183
Reported: 03/31/11 at 09:40 AM

Surrogate Quality Control

LCS	124
LCSD	114
MS	103
MSD	99
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110730008A

	Butyraldehyde
6224306	90
6224307	89
6224309	93
Blank	101
LCS	102
MS	98
MSD	93
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110750014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6224306	93	98
6224307	80	96
6224308	78	89
6224309	81	68
Blank	94	74
LCS	96	90
LCSD	95	92
MS	89	78
MSD	97	89
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110680011A

	Tetramethylene glycol
6224306	62
6224307	53
6224309	25*
Blank	108
LCS	103
MS	86
MSD	83
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 110680024A

	Acetone
6224306	78
6224307	74

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236183
Reported: 03/31/11 at 09:40 AM

Surrogate Quality Control

6224309	79
Blank	91
LCS	89
MS	78
MSD	76
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110730020A

	n-Triacontane-d62
6224306	77
6224307	76
6224309	124
Blank	87
LCS	78
MS	74
MSD	73
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110760020A

	Chlorobenzene	Orthoterphenyl
6224306	68	85
6224307	73	88
6224309	84	81
Blank	81	92
LCS	93	96
MS	77	90
MSD	75	88
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1236183 6224306-10

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-007-SA5A-SB-4.0-5.0	03.07.11	1056	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-007-SA5A-SB-4.5	03.07.11	1052	SOIL	NONE	5-Encores									X	X	X										
SL-007-SA5A-SB-9.0-10.0	03.07.11	1104	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-007-SA5A-SB-9.5	03.07.11	1101	SOIL	NONE	5-Encores									X	X	X										
SL-013-SA5A-SB-2.5-3.5	03.07.11	1524	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X														
SL-013-SA5A-SB-3.0	03.07.11	1520	SOIL	NONE	4-Encores									X	X											
SL-012-SA5A-SB-2.0-3.0	03.07.11	1609	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-012-SA5A-SB-2.5	03.07.11	1606	SOIL	NONE	5-Encores									X	X	X										
TB-030711	03.07.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X										TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/07/2011 / 17:00 — Received for Laboratory by: (*Signature*) 3/8/11 920

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8695 1432 5382

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/08/2011
Group Number: 1236185
SDG: DX061
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-007-SA5A-SB-4.0-5.0 Soil	6224312
SL-007-SA5A-SB-9.0-10.0 Soil	6224313
SL-013-SA5A-SB-2.5-3.5 Soil	6224314
SL-012-SA5A-SB-2.0-3.0 Soil	6224315

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-007-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-4.0-5.0

LLI Sample # SW 6224312
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 10:56

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD074 SDG#: DX061-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-4.0-5.0

LLI Sample # SW 6224312
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 10:56

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD074 SDG#: DX061-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0110	U	0.0110	1.14	1
11031	12378-PeCDD	40321-76-4	0.0115	U	0.0115	5.69	1
11031	123478-HxCDD	39227-28-6	0.0118	U	0.0118	5.69	1
11031	123678-HxCDD	57653-85-7	0.0677	J	0.0113	5.69	1
11031	123789-HxCDD	19408-74-3	0.114	JB	0.0107	5.69	1
11031	1234678-HpCDD	35822-46-9	0.212	JB	0.0155	5.69	1
11031	OCDD	3268-87-9	0.890	JB	0.0208	11.4	1
11031	2378-TCDF	51207-31-9	0.00904	JQ	0.00899	1.14	1
11031	12378-PeCDF	57117-41-6	0.0189	JB	0.00501	5.69	1
11031	23478-PeCDF	57117-31-4	0.0499	JB	0.00546	5.69	1
11031	123478-HxCDF	70648-26-9	0.0377	JB	0.0179	5.69	1
11031	123678-HxCDF	57117-44-9	0.0191	JBQ	0.0108	5.69	1
11031	123789-HxCDF	72918-21-9	0.0981	JQ	0.0117	5.69	1
11031	234678-HxCDF	60851-34-5	0.0940	JB	0.00830	5.69	1
11031	1234678-HpCDF	67562-39-4	0.151	JBQ	0.00796	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0573	JBQ	0.0122	5.69	1
11031	OCDF	39001-02-0	0.260	JB	0.0306	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	36	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

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Analysis Report

Sample Description: **SL-007-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-4.0-5.0

LLI Sample # SW 6224312
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 10:56

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD074 SDG#: DX061-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-007-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-4.0-5.0

LLI Sample # SW 6224312
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 10:56

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD074 SDG#: DX061-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/22/2011 09:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-007-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-9.0-10.0

LLI Sample # SW 6224313
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 11:04

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX061-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-9.0-10.0

LLI Sample # SW 6224313
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 11:04

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX061-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0155	J	0.0114	1.21	1
11031	12378-PeCDD	40321-76-4	0.0128	U	0.0128	6.06	1
11031	123478-HxCDD	39227-28-6	0.0128	U	0.0128	6.06	1
11031	123678-HxCDD	57653-85-7	0.0268	JQ	0.0124	6.06	1
11031	123789-HxCDD	19408-74-3	0.0300	JB	0.0113	6.06	1
11031	1234678-HpCDD	35822-46-9	0.328	JB	0.0228	6.06	1
11031	OCDD	3268-87-9	1.51	JB	0.0153	12.1	1
11031	2378-TCDF	51207-31-9	0.0174	JQ	0.00933	1.21	1
11031	12378-PeCDF	57117-41-6	0.0114	JBQ	0.00570	6.06	1
11031	23478-PeCDF	57117-31-4	0.0794	JBQ	0.00606	6.06	1
11031	123478-HxCDF	70648-26-9	0.0394	JBQ	0.0205	6.06	1
11031	123678-HxCDF	57117-44-9	0.0416	JB	0.0125	6.06	1
11031	123789-HxCDF	72918-21-9	0.0535	JQ	0.0105	6.06	1
11031	234678-HxCDF	60851-34-5	0.116	JB	0.00812	6.06	1
11031	1234678-HpCDF	67562-39-4	0.242	JB	0.0112	6.06	1
11031	1234789-HpCDF	55673-89-7	0.0714	JB	0.0131	6.06	1
11031	OCDF	39001-02-0	0.266	JB	0.0217	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-007-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-9.0-10.0

LLI Sample # SW 6224313
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 11:04

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX061-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-007-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5A-SB-9.0-10.0

LLI Sample # SW 6224313
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 11:04

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX061-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/23/2011 14:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-013-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SB-2.5-3.5

LLI Sample # SW 6224314
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 15:24

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX061-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SB-2.5-3.5

LLI Sample # SW 6224314
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 15:24

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX061-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244 JBQ	0.0133	1.16	1
11031	12378-PeCDD	40321-76-4	0.0146 U	0.0146	5.78	1
11031	123478-HxCDD	39227-28-6	0.0120 U	0.0120	5.78	1
11031	123678-HxCDD	57653-85-7	0.0282 JB	0.0123	5.78	1
11031	123789-HxCDD	19408-74-3	0.0454 JBQ	0.0120	5.78	1
11031	1234678-HpCDD	35822-46-9	0.225 JB	0.0180	5.78	1
11031	OCDD	3268-87-9	0.632 JB	0.0289	11.6	1
11031	2378-TCDF	51207-31-9	0.0114 U	0.0114	1.16	1
11031	12378-PeCDF	57117-41-6	0.0274 JBQ	0.00682	5.78	1
11031	23478-PeCDF	57117-31-4	0.0689 JB	0.00671	5.78	1
11031	123478-HxCDF	70648-26-9	0.0368 JBQ	0.00809	5.78	1
11031	123678-HxCDF	57117-44-9	0.0221 JB	0.00705	5.78	1
11031	123789-HxCDF	72918-21-9	0.0603 JB	0.00925	5.78	1
11031	234678-HxCDF	60851-34-5	0.0461 JBQ	0.00809	5.78	1
11031	1234678-HpCDF	67562-39-4	0.110 JB	0.00855	5.78	1
11031	1234789-HpCDF	55673-89-7	0.0289 JBQ	0.0148	5.78	1
11031	OCDF	39001-02-0	0.169 JBQ	0.0218	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SB-2.5-3.5

LLI Sample # SW 6224314
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 15:24

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX061-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5A-SB-2.5-3.5

LLI Sample # SW 6224314
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 15:24

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX061-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11083001	03/25/2011 20:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11083001	03/24/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11070162401B	03/11/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SB-2.0-3.0

LLI Sample # SW 6224315
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 16:09

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD012 SDG#: DX061-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SB-2.0-3.0

LLI Sample # SW 6224315
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 16:09

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD012 SDG#: DX061-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0470	J	0.0126	1.16	1
11031	12378-PeCDD	40321-76-4	0.0517	JB	0.0115	5.81	1
11031	123478-HxCDD	39227-28-6	0.0423	JQ	0.0109	5.81	1
11031	123678-HxCDD	57653-85-7	0.0280	JQ	0.0106	5.81	1
11031	123789-HxCDD	19408-74-3	0.0448	JB	0.00942	5.81	1
11031	1234678-HpCDD	35822-46-9	0.562	JB	0.0194	5.81	1
11031	OCDD	3268-87-9	2.02	JB	0.0181	11.6	1
11031	2378-TCDF	51207-31-9	0.0277	J	0.00965	1.16	1
11031	12378-PeCDF	57117-41-6	0.0847	JB	0.00558	5.81	1
11031	23478-PeCDF	57117-31-4	0.110	JB	0.00593	5.81	1
11031	123478-HxCDF	70648-26-9	0.140	JB	0.0184	5.81	1
11031	123678-HxCDF	57117-44-9	0.0558	JB	0.0112	5.81	1
11031	123789-HxCDF	72918-21-9	0.0799	J	0.00988	5.81	1
11031	234678-HxCDF	60851-34-5	0.0828	JB	0.00744	5.81	1
11031	1234678-HpCDF	67562-39-4	0.169	JBQ	0.00849	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0782	JBQ	0.0100	5.81	1
11031	OCDF	39001-02-0	0.243	JB	0.0224	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	95	25 - 164
13C12-12378-PeCDD	99	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	98	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	95	24 - 169
13C12-12378-PeCDF	111	24 - 185
13C12-23478-PeCDF	99	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	94	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	111	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-012-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SB-2.0-3.0

LLI Sample # SW 6224315
LLI Group # 1236185
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 16:09

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD012 SDG#: DX061-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5A-SB-2.0-3.0

LLI Sample # SW 6224315
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/07/2011 16:09

Submitted: 03/08/2011 09:20
Reported: 03/30/2011 17:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD012 SDG#: DX061-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/23/2011 16:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236185
Reported: 03/30/11 at 05:01 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11070162401B	Sample number(s): 6224314								
Moisture Content by 160.3					100		80-120		
Batch number: 11077162401A	Sample number(s): 6224312-6224313,6224315								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11077001	Sample number(s): 6224312-6224313,6224315								
2378-TCDD	0.0100 U	0.0100	1.00	ng/kg	110		67-158		
12378-PeCDD	0.0179 J	0.00970	5.00	ng/kg	112		70-142		
123478-HxCDD	0.00820 U	0.00820	5.00	ng/kg	110		70-164		
123678-HxCDD	0.00840 U	0.00840	5.00	ng/kg	109		76-134		
123789-HxCDD	0.0135 J	0.00740	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.130 J	0.0135	5.00	ng/kg	106		70-140		
OCDD	0.336 J	0.0147	10.0	ng/kg	107		78-144		
2378-TCDF	0.00810 U	0.00810	1.00	ng/kg	118		75-158		
12378-PeCDF	0.0209 J	0.00450	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0470 J	0.00470	5.00	ng/kg	106		68-160		
123478-HxCDF	0.0221 J	0.0101	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0193 J	0.00730	5.00	ng/kg	105		84-130		
123789-HxCDF	0.00630 U	0.00630	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0455 J	0.00530	5.00	ng/kg	107		70-156		
1234678-HpCDF	0.0994 J	0.00700	5.00	ng/kg	106		82-122		
1234789-HpCDF	0.0344 J	0.00800	5.00	ng/kg	105		78-138		
OCDF	0.169 J	0.0213	10.0	ng/kg	104		63-170		
Batch number: 11083001	Sample number(s): 6224314								
2378-TCDD	0.0184 J	0.0116	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0317 J	0.0137	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0256 J	0.0122	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0244 J	0.0125	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0275 J	0.0120	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.202 J	0.0177	5.00	ng/kg	92		70-140		
OCDD	0.392 J	0.0215	10.0	ng/kg	91		78-144		
2378-TCDF	0.0219 J	0.0127	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0346 J	0.00620	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0885 J	0.00690	5.00	ng/kg	93		68-160		
123478-HxCDF	0.0527 J	0.0118	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0416 J	0.00890	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0883 J	0.0140	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0701 J	0.0105	5.00	ng/kg	91		70-156		
1234678-HpCDF	0.141 J	0.00740	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0667 J	0.0165	5.00	ng/kg	90		78-138		
OCDF	0.221 J	0.0278	10.0	ng/kg	89		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236185
Reported: 03/30/11 at 05:01 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11070162401B	Sample number(s): 6224314					BKG: P220827			
Moisture Content by 160.3						8.2	9.0	10	20
Batch number: 11077162401A	Sample number(s): 6224312-6224313,6224315					BKG: P226876			
Moisture Content by 160.3						13.6	13.7	1	20
Batch number: 11077001	Sample number(s): 6224312-6224313,6224315					UNSPK: P220848			
2378-TCDD	107	110	67-158	2	25				
12378-PeCDD	109	112	70-142	2	25				
123478-HxCDD	108	110	70-164	2	25				
123678-HxCDD	109	110	76-134	1	25				
123789-HxCDD	107	107	64-162	0	25				
1234678-HpCDD	105	107	70-140	1	25				
OCDD	105	106	78-144	1	25				
2378-TCDF	114	117	75-158	3	25				
12378-PeCDF	107	106	80-134	0	25				
23478-PeCDF	106	107	68-160	1	25				
123478-HxCDF	104	106	72-134	1	25				
123678-HxCDF	105	104	84-130	0	25				
123789-HxCDF	103	105	78-130	1	25				
234678-HxCDF	106	106	70-156	0	25				
1234678-HpCDF	103	104	82-122	1	25				
1234789-HpCDF	105	106	78-138	1	25				
OCDF	103	104	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11077001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6224312	78	70	36	56	74	57
6224313	80	86	35	55	83	70
6224315	95	99	41	64	94	80
Blank	86	84	46	64	85	80
MS	70	70	64	76	72	63
MSD	70	72	67	80	74	66
OPR	88	78	38	53	81	81
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236185
Reported: 03/30/11 at 05:01 PM

Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6224312	65	47	36	91	73	70
6224313	67	65	57	93	83	71
6224315	77	75	66	111	99	79
Blank	68	67	57	106	87	84
MS	82	58	52	89	72	76
MSD	85	53	44	84	72	76
OPR	52	62	49	88	80	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6224312	77	78	70	61	75	82
6224313	78	81	82	86	82	98
6224315	91	95	98	98	95	111
Blank	88	91	82	71	84	91
MS	79	76	71	64	69	76
MSD	79	78	66	58	71	81
OPR	77	86	73	63	84	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11083001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6224314	84	85	77	89	81	75
Blank	87	76	67	86	75	64
OPR	69	72	66	75	71	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6224314	102	68	61	96	89	86
Blank	107	57	50	114	87	86
OPR	88	62	59	98	73	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6224314	91	87	88	83	81	88
Blank	91	88	88	82	75	90
OPR	77	73	75	74	68	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1236185 6224312-15

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCT's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 8650 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-007-SA5A-SB-4.0-5.0	03.07.11	1056	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-007-SA5A-SB-4.5	03.07.11	1052	SOIL	NONE	5-Encores									X	X	X											
SL-007-SA5A-SB-9.0-10.0	03.07.11	1104	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-007-SA5A-SB-9.5	03.07.11	1101	SOIL	NONE	5-Encores									X	X	X											
SL-013-SA5A-SB-2.5-3.5	03.07.11	1524	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X															
SL-013-SA5A-SB-3.0	03.07.11	1520	SOIL	NONE	4-Encores									X	X												
SL-012-SA5A-SB-2.0-3.0	03.07.11	1609	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-012-SA5A-SB-2.5	03.07.11	1606	SOIL	NONE	5-Encores									X	X	X											
TB-030711	03.07.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/07/2011 / 17:00 — Received for Laboratory by: (*Signature*) — 3/8/11 920

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8695 1432 5382

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 29, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/09/2011
Group Number: 1236391
SDG: DX061
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-006-SA5A-SB-2.0-3.0 Soil	6225087

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-006-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SB-2.0-3.0

LLI Sample # SW 6225087
LLI Group # 1236391
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/08/2011 09:56

Submitted: 03/09/2011 10:25
Reported: 03/29/2011 08:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD006 SDG#: DX061-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SB-2.0-3.0

LLI Sample # SW 6225087
LLI Group # 1236391
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/08/2011 09:56

Submitted: 03/09/2011 10:25
Reported: 03/29/2011 08:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD006 SDG#: DX061-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0155 JBQ	0.0140	1.00	1
11031	12378-PeCDD	40321-76-4	0.0130 U	0.0130	5.00	1
11031	123478-HxCDD	39227-28-6	0.0169 JBQ	0.0111	5.00	1
11031	123678-HxCDD	57653-85-7	0.0385 JB	0.0115	5.00	1
11031	123789-HxCDD	19408-74-3	0.0271 JBQ	0.0113	5.00	1
11031	1234678-HpCDD	35822-46-9	0.207 JB	0.0144	5.00	1
11031	OCDD	3268-87-9	0.387 JB	0.0221	10.0	1
11031	2378-TCDF	51207-31-9	0.0112 U	0.0112	1.00	1
11031	12378-PeCDF	57117-41-6	0.0186 JBQ	0.00620	5.00	1
11031	23478-PeCDF	57117-31-4	0.0537 JB	0.00630	5.00	1
11031	123478-HxCDF	70648-26-9	0.0348 JBQ	0.00940	5.00	1
11031	123678-HxCDF	57117-44-9	0.0308 JBQ	0.00790	5.00	1
11031	123789-HxCDF	72918-21-9	0.0499 JB	0.0114	5.00	1
11031	234678-HxCDF	60851-34-5	0.0624 JBQ	0.00920	5.00	1
11031	1234678-HpCDF	67562-39-4	0.165 JB	0.00680	5.00	1
11031	1234789-HpCDF	55673-89-7	0.0354 JB	0.0125	5.00	1
11031	OCDF	39001-02-0	0.212 JB	0.0240	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SB-2.0-3.0

LLI Sample # SW 6225087
LLI Group # 1236391
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/08/2011 09:56

Submitted: 03/09/2011 10:25
Reported: 03/29/2011 08:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD006 SDG#: DX061-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SB-2.0-3.0

LLI Sample # SW 6225087
LLI Group # 1236391
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/08/2011 09:56

Submitted: 03/09/2011 10:25
Reported: 03/29/2011 08:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD006 SDG#: DX061-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11083001	03/25/2011 21:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11083001	03/24/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236391
Reported: 03/29/11 at 08:29 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11077162401A	Sample number(s): 6225087								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11083001	Sample number(s): 6225087								
2378-TCDD	0.0184 J	0.0116	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0317 J	0.0137	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0256 J	0.0122	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0244 J	0.0125	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0275 J	0.0120	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.202 J	0.0177	5.00	ng/kg	92		70-140		
OCDD	0.392 J	0.0215	10.0	ng/kg	91		78-144		
2378-TCDF	0.0219 J	0.0127	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0346 J	0.00620	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0885 J	0.00690	5.00	ng/kg	93		68-160		
123478-HxCDF	0.0527 J	0.0118	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0416 J	0.00890	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0883 J	0.0140	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0701 J	0.0105	5.00	ng/kg	91		70-156		
1234678-HpCDF	0.141 J	0.00740	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0667 J	0.0165	5.00	ng/kg	90		78-138		
OCDF	0.221 J	0.0278	10.0	ng/kg	89		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11077162401A	Sample number(s): 6225087			BKG: P226876					
Moisture Content by 160.3						13.6	13.7	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236391
Reported: 03/29/11 at 08:29 AM

Surrogate Quality Control

Batch number: 11083001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6225087	73	75	69	81	72	62
Blank	87	76	67	86	75	64
OPR	69	72	66	75	71	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6225087	92	59	54	91	80	79
Blank	107	57	50	114	87	86
OPR	88	62	59	98	73	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6225087	83	79	79	74	70	81
Blank	91	88	88	82	75	90
OPR	77	73	75	74	68	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1236391 6225087

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-006-SA5A-SB-2.0-3.0	03.08.11	0950	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	Collection times were added per PB. NJM 3/10/11
SL-006-SA5A-SB-2.5	03.08.11	1351	SOIL	NONE	5-Encores									X	X	X											TRIP BLANK
TB-030811	03.08.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											Laboratory: Lancaster Laboratories, Inc.

Relinquished by: (Signature)	Date/Time 03/08/2011 / 17:00	Received for Laboratory by: (Signature)	3-9-11 1025
Received by: (Signature)	Date/Time	Airbill No.(s) 8695 1432 5393	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/12/2011
Group Number: 1237087
SDG: DE102
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP09-SA5A-QC-031111 Soil	6228975
SL-112-SA5A-SB-8.5-9.5 Soil	6228976
SL-112-SA5A-SB-14.0-15.0 Soil	6228977
SL-114-SA5A-SB-4.0-5.0 Soil	6228978
SL-114-SA5A-SB-4.0-5.0MS Soil	6228979
SL-114-SA5A-SB-4.0-5.0MSD Soil	6228980
SL-114-SA5A-SB-4.0-5.0DUP Soil	6228981
SL-114-SA5A-SB-9.0-10.0 Soil	6228982
SL-113-SA5A-SB-9.0-10.0 Soil	6228983
SL-113-SA5A-SB-14.0-15.0 Soil	6228984
SL-227-SA5B-SB-2.5-3.5 Soil	6228985
TB-031111 Water	6228986

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA5A-QC-031111 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10301 SDG#: DE102-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.85
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.85
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.85
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.85
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.85
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.85
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.85
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.85
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.85
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.85
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.85
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.85
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.85
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.85
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.85
06192	Methylene Chloride	75-09-2	0.78	J	0.25	4.1		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA5A-QC-031111 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10301 SDG#: DE102-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.85
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.85
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.85
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		23.06
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	203	U	203	405		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1

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Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10301 SDG#: DE102-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	U	20	200		1
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	0.41	U	0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0		1

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SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10301 SDG#: DE102-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	0.81	U	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		20.87
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	730	U	730	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	1.0	J	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	2.9		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1

Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The C21-C30 and C30-C40 results for the original extraction are ND and 0.71 mg/kg respectively. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	120	U	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1

The sample was injected numerous times. Each time the responses for various

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Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

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10301 SDG#: DE102-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.3		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.3		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.3		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	35,100		5.99	23.8		1
07914	Boron	7440-42-8	12.4		1.06	5.96		1
01650	Calcium	7440-70-2	18,500		7.30	23.8		1
01654	Iron	7439-89-6	34,500		28.1	119		5
01656	Lithium	7439-93-2	29.6		0.26	2.4		1
01657	Magnesium	7439-95-4	8,330		3.03	11.9		1
06958	Manganese	7439-96-5	388		0.0929	0.596		1
10145	Phosphorus	7723-14-0	313		0.667	11.9		1
01662	Potassium	7440-09-7	3,920		21.4	59.6		1
01667	Sodium	7440-23-5	211		44.4	119		1
07968	Strontium	7440-24-6	56.2		0.0739	0.596		1
06969	Tin	7440-31-5	3.01	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,530		0.453	1.19		1
10146	Zirconium	7440-67-7	5.35	J	1.00	5.96		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.227	J	0.0722	0.241		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.98		0.0962	0.481		2
06126	Barium	7440-39-3	160		0.130	0.481		2
06127	Beryllium	7440-41-7	1.08		0.0192	0.120		2
06128	Cadmium	7440-43-9	0.383		0.0481	0.120		2
06131	Chromium	7440-47-3	39.2		0.144	0.481		2
06132	Cobalt	7440-48-4	12.3		0.0241	0.120		2
06133	Copper	7440-50-8	17.7		0.0794	0.481		2
06135	Lead	7439-92-1	13.2		0.0125	0.241		2
06138	Molybdenum	7439-98-7	0.458		0.0602	0.120		2
06139	Nickel	7440-02-0	29.7		0.120	0.481		2
06141	Selenium	7782-49-2	0.162	J	0.0481	0.481		2
06142	Silver	7440-22-4	0.0505	J	0.0144	0.120		2
06145	Thallium	7440-28-0	0.441		0.0361	0.120		2
06148	Vanadium	7440-62-2	75.8		0.0265	0.120		2
06149	Zinc	7440-66-6	89.9		0.674	3.61		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0083	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
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10301 SDG#: DE102-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.2		0.97	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.97	1.8		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.5		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.60		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	388		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	11.5		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	17.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 15:02	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011 12:45	Jason M Long	23.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:03	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10301 SDG#: DE102-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:04	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 02:11	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 20:27	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 10:35	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 17:03	Marie D John	20.87
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:03	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 04:37	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 23:27	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 08:46	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/24/2011 21:55	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 18:37	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 19:11	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 01:19	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/19/2011 10:21	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA5A-QC-031111 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10301 SDG#: DE102-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 18:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 18:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201A	03/17/2011 21:33	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 15:38	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:33	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201A	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101A	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401A	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-112-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.8		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.99
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.99
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.99
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.99
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.99
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.99
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.99
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.99
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.99
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.99
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.99
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.99
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.99
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.99
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.99
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.99
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.99
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.99
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.99
06192	Methylene Chloride	75-09-2	1.8	J	0.26	4.4		0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.99

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Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.99
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.99
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.99
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.99
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.99
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.99
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.99
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.99
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		25.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	185	U	185	370		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	25	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	20	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	25	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	24	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	20	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	28	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.0		0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	J	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

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Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.5	J	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Phenanthrene	85-01-8	0.88	J	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.89
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1

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Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.59	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.89	U	0.89	2.7		2
10199	EFH (C15-C20)	n.a.	2.7		0.89	2.7		2
10199	EFH (C21-C30)	n.a.	49		0.89	2.7		2
10199	EFH (C30 - C40)	n.a.	120		0.89	2.7		2
10199	EFH (C8-C11)	n.a.	0.89	U	0.89	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		5.52	22.0		1
07914	Boron	7440-42-8	4.79	J	0.977	5.49		1
01650	Calcium	7440-70-2	3,300		6.73	22.0		1
01654	Iron	7439-89-6	19,000		5.17	22.0		1
01656	Lithium	7439-93-2	25.4		0.24	2.2		1
01657	Magnesium	7439-95-4	4,390		2.79	11.0		1
06958	Manganese	7439-96-5	270		0.0856	0.549		1
10145	Phosphorus	7723-14-0	367		0.615	11.0		1
01662	Potassium	7440-09-7	2,900		19.8	54.9		1
01667	Sodium	7440-23-5	142		40.9	110		1
07968	Strontium	7440-24-6	17.4		0.0681	0.549		1
06969	Tin	7440-31-5	2.79	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,120		0.417	1.10		1
10146	Zirconium	7440-67-7	1.74	J	0.922	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0640	U	0.0640	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.94		0.0853	0.426		2
06126	Barium	7440-39-3	115		0.115	0.426		2
06127	Beryllium	7440-41-7	0.598		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.119		0.0426	0.107		2
06131	Chromium	7440-47-3	17.6		0.128	0.426		2
06132	Cobalt	7440-48-4	6.01		0.0213	0.107		2
06133	Copper	7440-50-8	8.04		0.0704	0.426		2
06135	Lead	7439-92-1	5.56		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.485		0.0533	0.107		2
06139	Nickel	7440-02-0	12.5		0.107	0.426		2
06141	Selenium	7782-49-2	0.0998	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0245	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.294		0.0320	0.107		2
06148	Vanadium	7440-62-2	37.5		0.0235	0.107		2
06149	Zinc	7440-66-6	74.1		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0093	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.4		0.89	1.7		1

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Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	396		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.01		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-112-SA5A-SB-9.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 15:25	Chelsea B Eastep	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011 13:05	Jason M Long	25.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.

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Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:08	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 02:28	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 20:52	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 11:07	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 17:39	Marie D John	22.89
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:07	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 05:19	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 23:36	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 09:04	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110760020A	03/20/2011 04:24	Tracy A Cole	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 18:52	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 19:24	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 10:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110760020A	03/18/2011 08:00	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 18:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 18:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201A	03/17/2011 21:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 15:44	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:34	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201A	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101A	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401A	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-112-SA5A-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.95
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.95
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.95
06192	Methylene Chloride	75-09-2	0.72	J	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.95

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.95
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.4
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	188	U	188	376		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.82	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	1.0	J	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Phenanthrene	85-01-8	1.1	J	0.75	1.9		1
10138	Pyrene	129-00-0	1.1	J	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1

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Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	730	J	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	1.5		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	3.1		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
	Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The C21-C30 and C30-C40 results for the original extraction are ND and 1.5 mg/kg respectively. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various							

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Sample Description: SL-112-SA5A-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,500		5.51	21.9		1
07914	Boron	7440-42-8	4.47	J	0.974	5.47		1
01650	Calcium	7440-70-2	3,730		6.71	21.9		1
01654	Iron	7439-89-6	19,600		5.16	21.9		1
01656	Lithium	7439-93-2	22.8		0.24	2.2		1
01657	Magnesium	7439-95-4	5,010		2.78	10.9		1
06958	Manganese	7439-96-5	296		0.0854	0.547		1
10145	Phosphorus	7723-14-0	467		0.613	10.9		1
01662	Potassium	7440-09-7	3,230		19.7	54.7		1
01667	Sodium	7440-23-5	150		40.8	109		1
07968	Strontium	7440-24-6	17.9		0.0679	0.547		1
06969	Tin	7440-31-5	2.63	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,300		0.416	1.09		1
10146	Zirconium	7440-67-7	0.919	U	0.919	5.47		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0670	U	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.88		0.0893	0.446		2
06126	Barium	7440-39-3	87.3		0.121	0.446		2
06127	Beryllium	7440-41-7	0.500		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0949	J	0.0446	0.112		2
06131	Chromium	7440-47-3	14.5		0.134	0.446		2
06132	Cobalt	7440-48-4	5.63		0.0223	0.112		2
06133	Copper	7440-50-8	9.73		0.0737	0.446		2
06135	Lead	7439-92-1	4.25		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.419		0.0558	0.112		2
06139	Nickel	7440-02-0	9.27		0.112	0.446		2
06141	Selenium	7782-49-2	0.119	J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0247	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.253		0.0335	0.112		2
06148	Vanadium	7440-62-2	36.0		0.0246	0.112		2
06149	Zinc	7440-66-6	209		1.56	8.37		5
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0162	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

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Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	10.3		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	404		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-112-SA5A-SB-14.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011	15:47	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	13:24	Jason M Long	21.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011	13:11	Christopher D Meeks	n.a.

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Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
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10303 SDG#: DE102-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:11	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 02:44	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 21:16	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 11:38	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 18:16	Marie D John	21.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:10	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 06:02	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 23:46	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 09:23	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/24/2011 22:21	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 19:07	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 19:37	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 02:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1

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Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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10303 SDG#: DE102-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/22/2011 21:39	David K Beck	5
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 18:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 18:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201A	03/17/2011 22:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 15:57	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:35	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201A	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101A	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401A	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-114-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.1	U	8.1	9.7		0.94
06192	Benzene	71-43-2	0.12	U	0.12	4.9		0.94
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.9		0.94
06192	Bromochloromethane	74-97-5	0.40	U	0.40	4.9		0.94
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.9		0.94
06192	Bromoform	75-25-2	0.49	U	0.49	4.9		0.94
06192	Bromomethane	74-83-9	0.30	U	0.30	4.9		0.94
06192	2-Butanone	78-93-3	1.5	U	1.5	9.7		0.94
06192	n-Butylbenzene	104-51-8	0.15	U	0.15	4.9		0.94
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.9		0.94
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.9		0.94
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.9		0.94
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.9		0.94
06192	Chloroethane	75-00-3	0.16	U	0.16	4.9		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.37	U	0.37	4.9		0.94
06192	Chloroform	67-66-3	0.15	U	0.15	4.9		0.94
06192	Chloromethane	74-87-3	0.40	U	0.40	4.9		0.94
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.9		0.94
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.9		0.94
06192	Chlorotrifluoroethene	79-38-9	0.61	U	0.61	6.1		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.85	U	0.85	4.9		0.94
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.9		0.94
06192	1,2-Dibromoethane	106-93-4	0.21	U	0.21	4.9		0.94
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.9		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.9		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.15	U	0.15	4.9		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.9		0.94
06192	Dichlorodifluoromethane	75-71-8	0.15	U	0.15	4.9		0.94
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.9		0.94
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.9		0.94
06192	1,1-Dichloroethene	75-35-4	0.48	U	0.48	4.9		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.9		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.15	U	0.15	4.9		0.94
06192	1,2-Dichloropropane	78-87-5	0.21	U	0.21	4.9		0.94
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.9		0.94
06192	2,2-Dichloropropane	594-20-7	0.21	U	0.21	4.9		0.94
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.9		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.9		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.21	U	0.21	4.9		0.94
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.9		0.94
06192	Freon 113	76-13-1	0.13	U	0.13	4.9		0.94
06192	Freon 133a	75-88-7	0.61	U	0.61	6.1		0.94
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.9		0.94
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.7		0.94
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.9		0.94
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.9		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26	U	0.26	4.9		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.48	U	0.48	9.7		0.94
06192	Methylene Chloride	75-09-2	1.0	J	0.29	4.9		0.94
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	4.9		0.94

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Sample Description: SL-114-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.9		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.9		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.9		0.94
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.9		0.94
06192	Toluene	108-88-3	0.1	U	0.1	4.9		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.9		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.9		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.9		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.33	U	0.33	4.9		0.94
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.9		0.94
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.9		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.40	U	0.40	4.9		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.49	U	0.49	4.9		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.9		0.94
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.9		0.94
06192	m+p-Xylene	179601-23-1	0.21	U	0.21	4.9		0.94
06192	o-Xylene	95-47-6	0.21	U	0.21	4.9		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		22.24
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	216	U	216	432		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	220	U	220	650		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,300		1
04688	Benzoic acid	65-85-0	220	U	220	650		1
04688	Benzyl alcohol	100-51-6	220	U	220	650		1
04688	4-Bromophenyl-phenylether	101-55-3	22	U	22	220		1
04688	Di-n-butylphthalate	84-74-2	22	U	22	220		1
04688	Carbazole	86-74-8	22	U	22	220		1
04688	4-Chloro-3-methylphenol	59-50-7	43	U	43	220		1
04688	4-Chloroaniline	106-47-8	86	U	86	220		1
04688	bis(2-Chloroethoxy)methane	111-91-1	22	U	22	220		1
04688	bis(2-Chloroethyl)ether	111-44-4	22	U	22	220		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	22	U	22	220		1
04688	2-Chloronaphthalene	91-58-7	22	U	22	220		1
04688	2-Chlorophenol	95-57-8	22	U	22	220		1
04688	4-Chlorophenyl-phenylether	7005-72-3	43	U	43	220		1
04688	Dibenzofuran	132-64-9	22	U	22	220		1
04688	1,2-Dichlorobenzene	95-50-1	22	U	22	220		1
04688	1,3-Dichlorobenzene	541-73-1	22	U	22	220		1
04688	1,4-Dichlorobenzene	106-46-7	22	U	22	220		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	430		1
04688	2,4-Dichlorophenol	120-83-2	22	U	22	220		1
04688	2,4-Dimethylphenol	105-67-9	43	U	43	220		1
04688	3,5-Dimethylphenol	108-68-9	43	U	43	220		1

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Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	220	U	220	650		1
04688	2,4-Dinitrophenol	51-28-5	430	U	430	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	43	U	43	220		1
04688	2,6-Dinitrotoluene	606-20-2	22	U	22	220		1
04688	1,2-Diphenylhydrazine	122-66-7	22	U	22	220		1
04688	Hexachlorobenzene	118-74-1	22	U	22	220		1
04688	Hexachlorobutadiene	87-68-3	86	U	86	220		1
04688	Hexachlorocyclopentadiene	77-47-4	220	U	220	650		1
04688	Hexachloroethane	67-72-1	22	U	22	220		1
04688	Isophorone	78-59-1	22	U	22	220		1
04688	2-Methylphenol	95-48-7	43	U	43	220		1
04688	4-Methylphenol	106-44-5	43	U	43	220		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	22	U	22	220		1
04688	3-Nitroaniline	99-09-2	43	U	43	220		1
04688	4-Nitroaniline	100-01-6	86	U	86	220		1
04688	Nitrobenzene	98-95-3	22	U	22	220		1
04688	2-Nitrophenol	88-75-5	22	U	22	220		1
04688	4-Nitrophenol	100-02-7	220	U	220	650		1
04688	N-Nitroso-di-n-propylamine	621-64-7	22	U	22	220		1
04688	N-Nitrosodiphenylamine	86-30-6	22	U	22	220		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	220	U	220	650		1
04688	Phenol	108-95-2	22	U	22	220		1
04688	1,2,4-Trichlorobenzene	120-82-1	22	U	22	220		1
04688	2,4,5-Trichlorophenol	95-95-4	43	U	43	220		1
04688	2,4,6-Trichlorophenol	88-06-2	43	U	43	220		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.86	U	0.86	2.2		1
10138	Acenaphthylene	208-96-8	0.43	U	0.43	2.2		1
10138	Anthracene	120-12-7	0.43	U	0.43	2.2		1
10138	Benzo(a)anthracene	56-55-3	0.86	U	0.86	2.2		1
10138	Benzo(a)pyrene	50-32-8	0.86	U	0.86	2.2		1
10138	Benzo(b)fluoranthene	205-99-2	0.86	U	0.86	2.2		1
10138	Benzo(g,h,i)perylene	191-24-2	0.86	U	0.86	2.2		1
10138	Benzo(k)fluoranthene	207-08-9	0.86	U	0.86	2.2		1
10138	Butylbenzylphthalate	85-68-7	7.8	U	7.8	23		1
10138	Chrysene	218-01-9	0.43	U	0.43	2.2		1
10138	Dibenz(a,h)anthracene	53-70-3	0.86	U	0.86	2.2		1
10138	Diethylphthalate	84-66-2	7.8	U	7.8	23		1
10138	Dimethylphthalate	131-11-3	7.8	U	7.8	23		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.8	U	7.8	23		1
10138	Fluoranthene	206-44-0	0.86	U	0.86	2.2		1
10138	Fluorene	86-73-7	0.86	U	0.86	2.2		1

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Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

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10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.86	U	0.86	2.2		1
10138	1-Methylnaphthalene	90-12-0	0.86	U	0.86	2.2		1
10138	2-Methylnaphthalene	91-57-6	0.86	U	0.86	2.2		1
10138	Naphthalene	91-20-3	0.86	U	0.86	2.2		1
10138	N-Nitrosodimethylamine	62-75-9	0.86	U	0.86	2.2		1
10138	Di-n-octylphthalate	117-84-0	7.8	U	7.8	23		1
10138	Phenanthrene	85-01-8	0.86	U	0.86	2.2		1
10138	Pyrene	129-00-0	0.86	U	0.86	2.2		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		23.36
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	76	U	76	150	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	51	U	51	150	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	100	U	100	300	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	100	U	100	300	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	51	U	51	150	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	51	U	51	150	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	51	U	51	150	10000000	1
10132	HMX	2691-41-0	130	U	130	380	10000000	1
10132	Nitrobenzene	98-95-3	51	U	51	150	10000000	1
10132	Nitroglycerin	55-63-0	1,000	U	1,000	3,000	10000000	1
10132	2-Nitrotoluene	88-72-2	100	U	100	150	10000000	1
10132	3-Nitrotoluene	99-08-1	130	U	130	150	10000000	1
10132	4-Nitrotoluene	99-99-0	100	U	100	150	10000000	1
10132	PETN	78-11-5	1,000	U	1,000	3,000	10000000	1
10132	RDX	121-82-4	63	U	63	150	10000000	1
10132	Tetryl	479-45-8	78	U	78	150	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	51	U	51	150	10000000	1

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Sample Description: SL-114-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
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10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	51	U	51	150	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	780	U	780	1,900		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.3		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.3		1
10225	Aroclor 5460	11126-42-4	1.3	U	1.3	4.3		1
10225	PCB-1016	12674-11-2	0.43	U	0.43	2.2		1
10225	PCB-1221	11104-28-2	0.43	U	0.43	2.2		1
10225	PCB-1232	11141-16-5	0.43	U	0.43	2.2		1
10225	PCB-1242	53469-21-9	0.43	U	0.43	2.2		1
10225	PCB-1248	12672-29-6	0.43	U	0.43	2.2		1
10225	PCB-1254	11097-69-1	0.43	U	0.43	2.2		1
10225	PCB-1260	11096-82-5	0.51	U	0.51	2.2		1
10225	PCB-1262	37324-23-5	0.43	U	0.43	2.2		1
10225	PCB-1268	11100-14-4	0.43	U	0.43	2.2		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.52	U	0.52	1.6		1
10199	EFH (C15-C20)	n.a.	2.0		0.52	1.6		1
10199	EFH (C21-C30)	n.a.	7.3		0.52	1.6		1
10199	EFH (C30 - C40)	n.a.	29		0.52	1.6		1
10199	EFH (C8-C11)	n.a.	0.52	U	0.52	1.6		1
	Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The C15-C20, C21-C30 and C30-C40 results for the original extraction are ND, ND and 1.4 mg/kg respectively. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	130	U	130	650		1
10501	Isopropanol	67-63-0	130	U	130	650		1
10501	Methanol	67-56-1	130	U	130	650		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.5	U	6.5	16		1
08283	Ethylene glycol	107-21-1	6.5	U	6.5	16		1
08283	Propylene glycol	57-55-6	6.5	U	6.5	16		1
	The sample was injected numerous times. Each time the responses for various							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.9	U	1.9	4.5		1
10318	o-Terphenyl	84-15-1	1.9	U	1.9	4.5		1
10318	p-Terphenyl	92-94-4	1.9	U	1.9	4.5		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	37,200		6.26	24.9		1
07914	Boron	7440-42-8	13.8		1.11	6.23		1
01650	Calcium	7440-70-2	35,900		7.64	24.9		1
01654	Iron	7439-89-6	34,200		29.3	125		5
01656	Lithium	7439-93-2	33.0		0.27	2.5		1
01657	Magnesium	7439-95-4	8,320		3.16	12.5		1
06958	Manganese	7439-96-5	454		0.0972	0.623		1
10145	Phosphorus	7723-14-0	246		0.697	12.5		1
01662	Potassium	7440-09-7	3,430		22.4	62.3		1
01667	Sodium	7440-23-5	284		46.5	125		1
07968	Strontium	7440-24-6	67.4		0.0772	0.623		1
06969	Tin	7440-31-5	3.11	J	1.25	12.5		1
06970	Titanium	7440-32-6	1,570		0.473	1.25		1
10146	Zirconium	7440-67-7	5.57	J	1.05	6.23		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.290		0.0755	0.252		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.31		0.101	0.503		2
06126	Barium	7440-39-3	152		0.136	0.503		2
06127	Beryllium	7440-41-7	1.14		0.0201	0.126		2
06128	Cadmium	7440-43-9	0.445		0.0503	0.126		2
06131	Chromium	7440-47-3	44.3		0.151	0.503		2
06132	Cobalt	7440-48-4	10.3		0.0252	0.126		2
06133	Copper	7440-50-8	17.7		0.0830	0.503		2
06135	Lead	7439-92-1	13.3		0.0131	0.252		2
06138	Molybdenum	7439-98-7	0.350		0.0629	0.126		2
06139	Nickel	7440-02-0	27.7		0.126	0.503		2
06141	Selenium	7782-49-2	0.162	J	0.0503	0.503		2
06142	Silver	7440-22-4	0.0781	J	0.0151	0.126		2
06145	Thallium	7440-28-0	0.419		0.0377	0.126		2
06148	Vanadium	7440-62-2	82.1		0.0277	0.126		2
06149	Zinc	7440-66-6	82.1		0.704	3.77		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0091	J	0.0036	0.125		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.6		1.0	1.3		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2		1.0	1.9		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.7	U	11.7	38.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	U	0.26	1.3		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.23	U	0.23	0.64		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	328		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.06		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	22.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-114-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011	16:09	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	13:44	Jason M Long	22.24
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011	13:15	Christopher D Meeks	n.a.

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Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:15	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 01:21	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 16:41	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 09:01	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 18:52	Marie D John	23.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:14	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 06:44	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 23:55	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 09:41	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/25/2011 00:53	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 19:22	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 19:50	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 02:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/19/2011 09:57	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 21:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 21:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 21:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 16:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 16:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/17/2011 22:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 16:09	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:37	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-114-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	180	7.1	8.5		0.82
06192	Benzene	71-43-2	22	0.11	4.2		0.82
06192	Bromobenzene	108-86-1	21	0.14	4.2		0.82
06192	Bromochloromethane	74-97-5	26	0.35	4.2		0.82
06192	Bromodichloromethane	75-27-4	20	0.08	4.2		0.82
06192	Bromoform	75-25-2	17	0.42	4.2		0.82
06192	Bromomethane	74-83-9	17	0.26	4.2		0.82
06192	2-Butanone	78-93-3	160	1.3	8.5		0.82
06192	n-Butylbenzene	104-51-8	23	0.13	4.2		0.82
06192	sec-Butylbenzene	135-98-8	23	0.06	4.2		0.82
06192	tert-Butylbenzene	98-06-6	21	0.17	4.2		0.82
06192	Carbon Tetrachloride	56-23-5	21	0.15	4.2		0.82
06192	Chlorobenzene	108-90-7	21	0.12	4.2		0.82
06192	Chloroethane	75-00-3	18	0.14	4.2		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	17	0.32	4.2		0.82
06192	Chloroform	67-66-3	22	0.13	4.2		0.82
06192	Chloromethane	74-87-3	19	0.35	4.2		0.82
06192	2-Chlorotoluene	95-49-8	21	0.15	4.2		0.82
06192	4-Chlorotoluene	106-43-4	21	0.15	4.2		0.82
06192	Chlorotrifluoroethene	79-38-9	18	0.52	5.2		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.74	4.2		0.82
06192	Dibromochloromethane	124-48-1	18	0.21	4.2		0.82
06192	1,2-Dibromoethane	106-93-4	20	0.18	4.2		0.82
06192	Dibromomethane	74-95-3	21	0.25	4.2		0.82
06192	1,2-Dichlorobenzene	95-50-1	20	0.09	4.2		0.82
06192	1,3-Dichlorobenzene	541-73-1	20	0.13	4.2		0.82
06192	1,4-Dichlorobenzene	106-46-7	20	0.17	4.2		0.82
06192	Dichlorodifluoromethane	75-71-8	16	0.13	4.2		0.82
06192	1,1-Dichloroethane	75-34-3	22	0.11	4.2		0.82
06192	1,2-Dichloroethane	107-06-2	21	0.16	4.2		0.82
06192	1,1-Dichloroethene	75-35-4	26	0.41	4.2		0.82
06192	cis-1,2-Dichloroethene	156-59-2	22	0.20	4.2		0.82
06192	trans-1,2-Dichloroethene	156-60-5	23	0.13	4.2		0.82
06192	1,2-Dichloropropane	78-87-5	22	0.18	4.2		0.82
06192	1,3-Dichloropropane	142-28-9	21	0.08	4.2		0.82
06192	2,2-Dichloropropane	594-20-7	20	0.18	4.2		0.82
06192	1,1-Dichloropropene	563-58-6	23	0.14	4.2		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	19	0.17	4.2		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	18	0.18	4.2		0.82
06192	Ethylbenzene	100-41-4	21	0.06	4.2		0.82
06192	Freon 113	76-13-1	28	0.12	4.2		0.82
06192	Freon 133a	75-88-7	24	0.52	5.2		0.81
06192	Hexachlorobutadiene	87-68-3	19	0.15	4.2		0.82
06192	2-Hexanone	591-78-6	100	1.7	8.5		0.82
06192	Isopropylbenzene	98-82-8	21	0.06	4.2		0.82
06192	p-Isopropyltoluene	99-87-6	23	0.12	4.2		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.22	4.2		0.82
06192	4-Methyl-2-pentanone	108-10-1	100	0.41	8.5		0.82
06192	Methylene Chloride	75-09-2	25	0.25	4.2		0.82
06192	n-Propylbenzene	103-65-1	24	0.07	4.2		0.82

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	20	0.11	4.2		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	19	0.12	4.2		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	21	0.24	4.2		0.82
06192	Tetrachloroethene	127-18-4	21	0.21	4.2		0.82
06192	Toluene	108-88-3	22	0.08	4.2		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	17	0.15	4.2		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	17	0.19	4.2		0.82
06192	1,1,1-Trichloroethane	71-55-6	21	0.21	4.2		0.82
06192	1,1,2-Trichloroethane	79-00-5	21	0.28	4.2		0.82
06192	Trichloroethene	79-01-6	22	0.16	4.2		0.82
06192	Trichlorofluoromethane	75-69-4	22	0.31	4.2		0.82
06192	1,2,3-Trichloropropane	96-18-4	21	0.35	4.2		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	22	0.42	4.2		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	22	0.11	4.2		0.82
06192	Vinyl Chloride	75-01-4	20	0.21	4.2		0.82
06192	m+p-Xylene	179601-23-1	42	0.18	4.2		0.82
06192	o-Xylene	95-47-6	20	0.18	4.2		0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	130	5.5	16		21.19
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	734	216	432		10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800	22	220		1
04688	Acenaphthylene	208-96-8	1,900	22	220		1
04688	Aniline	62-53-3	1,300	220	650		1
04688	Anthracene	120-12-7	1,900	22	220		1
04688	Benzidine	92-87-5	4,800	1,500	4,300		1
04688	Benzo(a)anthracene	56-55-3	1,900	22	220		1
04688	Benzo(a)pyrene	50-32-8	2,100	22	220		1
04688	Benzo(b)fluoranthene	205-99-2	2,000	22	220		1
04688	Benzo(g,h,i)perylene	191-24-2	2,200	22	220		1
04688	Benzo(k)fluoranthene	207-08-9	2,300	22	220		1
04688	Benzoic acid	65-85-0	990	220	650		1
04688	Benzyl alcohol	100-51-6	1,600	220	650		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900	22	220		1
04688	Butylbenzylphthalate	85-68-7	1,900	22	220		1
04688	Di-n-butylphthalate	84-74-2	1,800	22	220		1
04688	Carbazole	86-74-8	1,800	22	220		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	43	220		1
04688	4-Chloroaniline	106-47-8	1,500	86	220		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	22	220		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	22	220		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500	22	220		1
04688	2-Chloronaphthalene	91-58-7	1,500	22	220		1
04688	2-Chlorophenol	95-57-8	1,800	22	220		1

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Sample Description: SL-114-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900	43	220		1
04688	Chrysene	218-01-9	2,000	22	220		1
04688	Dibenz(a,h)anthracene	53-70-3	2,100	22	220		1
04688	Dibenzofuran	132-64-9	1,900	22	220		1
04688	1,2-Dichlorobenzene	95-50-1	1,700	22	220		1
04688	1,3-Dichlorobenzene	541-73-1	1,700	22	220		1
04688	1,4-Dichlorobenzene	106-46-7	1,700	22	220		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	130	430		1
04688	2,4-Dichlorophenol	120-83-2	1,900	22	220		1
04688	Diethylphthalate	84-66-2	1,800	22	220		1
04688	2,4-Dimethylphenol	105-67-9	1,700	43	220		1
04688	3,5-Dimethylphenol	108-68-9	1,900	43	220		1
04688	Dimethylphthalate	131-11-3	1,800	22	220		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600	220	650		1
04688	2,4-Dinitrophenol	51-28-5	2,600	430	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	43	220		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	22	220		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	22	220		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	22	430		1
04688	Fluoranthene	206-44-0	1,800	22	220		1
04688	Fluorene	86-73-7	1,800	22	220		1
04688	Hexachlorobenzene	118-74-1	1,900	22	220		1
04688	Hexachlorobutadiene	87-68-3	1,800	86	220		1
04688	Hexachlorocyclopentadiene	77-47-4	3,800	220	650		1
04688	Hexachloroethane	67-72-1	1,500	22	220		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,100	22	220		1
04688	Isophorone	78-59-1	1,600	22	220		1
04688	1-Methylnaphthalene	90-12-0	1,900	22	220		1
04688	2-Methylnaphthalene	91-57-6	1,700	22	220		1
04688	2-Methylphenol	95-48-7	1,700	43	220		1
04688	4-Methylphenol	106-44-5	1,700	43	220		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	22	220		1
04688	2-Nitroaniline	88-74-4	1,800	22	220		1
04688	3-Nitroaniline	99-09-2	1,800	43	220		1
04688	4-Nitroaniline	100-01-6	1,400	86	220		1
04688	Nitrobenzene	98-95-3	1,600	22	220		1
04688	2-Nitrophenol	88-75-5	1,800	22	220		1
04688	4-Nitrophenol	100-02-7	1,400	220	650		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	43	220		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	22	220		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000	22	220		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,100	22	220		1
04688	Pentachlorophenol	87-86-5	1,600	220	650		1
04688	Phenanthrene	85-01-8	1,900	22	220		1

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	1,600		22	220		1
04688	Pyrene	129-00-0	2,000		22	220		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900		22	220		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		43	220		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		43	220		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	39		0.86	2.2		1
10138	Acenaphthylene	208-96-8	39		0.43	2.2		1
10138	Anthracene	120-12-7	41		0.43	2.2		1
10138	Benzo(a)anthracene	56-55-3	43		0.86	2.2		1
10138	Benzo(a)pyrene	50-32-8	46		0.86	2.2		1
10138	Benzo(b)fluoranthene	205-99-2	47		0.86	2.2		1
10138	Benzo(g,h,i)perylene	191-24-2	51		0.86	2.2		1
10138	Benzo(k)fluoranthene	207-08-9	48		0.86	2.2		1
10138	Butylbenzylphthalate	85-68-7	46		7.8	23		1
10138	Di-n-butylphthalate	84-74-2	47		7.8	23		1
10138	Chrysene	218-01-9	43		0.43	2.2		1
10138	Dibenz(a,h)anthracene	53-70-3	53		0.86	2.2		1
10138	Diethylphthalate	84-66-2	45		7.8	23		1
10138	Dimethylphthalate	131-11-3	44		7.8	23		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	49		7.8	23		1
10138	Fluoranthene	206-44-0	45		0.86	2.2		1
10138	Fluorene	86-73-7	42		0.86	2.2		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	52		0.86	2.2		1
10138	1-Methylnaphthalene	90-12-0	39		0.86	2.2		1
10138	2-Methylnaphthalene	91-57-6	35		0.86	2.2		1
10138	Naphthalene	91-20-3	38		0.86	2.2		1
10138	N-Nitrosodimethylamine	62-75-9	40		0.86	2.2		1
10138	Di-n-octylphthalate	117-84-0	55		7.8	23		1
10138	Phenanthrene	85-01-8	41		0.86	2.2		1
10138	Pyrene	129-00-0	39		0.86	2.2		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 11 ug/kg
di-n-octylphthalate 11 ug/kg
These blank values were not subtracted from the analytical results.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	6.5		0.2	1		19.2
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,700		76	150	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,600		51	150	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	260	U	260	780	10000000	1

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Sample Description: SL-114-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	260	U	260	780	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,600		51	150	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,500		51	150	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,600		51	150	10000000	1
10132	HMX	2691-41-0	2,100		130	380	10000000	1
10132	Nitrobenzene	98-95-3	2,500		51	150	10000000	1
10132	Nitroglycerin	55-63-0	59,000		1,000	3,000	10000000	1
10132	2-Nitrotoluene	88-72-2	2,500		100	150	10000000	1
10132	3-Nitrotoluene	99-08-1	2,500		130	150	10000000	1
10132	4-Nitrotoluene	99-99-0	2,500		100	150	10000000	1
10132	PETN	78-11-5	64,000		1,000	3,000	10000000	1
10132	RDX	121-82-4	2,300		63	150	10000000	1
10132	Tetryl	479-45-8	2,100		78	150	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,500		51	150	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,600		51	150	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	6,400		780	1,900		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.3		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.3		1
10225	Aroclor 5460	11126-42-4	1.3	U	1.3	4.3		1
10225	PCB-1016	12674-11-2	19		0.43	2.2		1
10225	PCB-1221	11104-28-2	0.43	U	0.43	2.2		1
10225	PCB-1232	11141-16-5	0.43	U	0.43	2.2		1
10225	PCB-1242	53469-21-9	0.43	U	0.43	2.2		1
10225	PCB-1248	12672-29-6	0.43	U	0.43	2.2		1
10225	PCB-1254	11097-69-1	0.43	U	0.43	2.2		1
10225	PCB-1260	11096-82-5	20		0.51	2.2		1
10225	PCB-1262	37324-23-5	0.43	U	0.43	2.2		1
10225	PCB-1268	11100-14-4	0.43	U	0.43	2.2		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the

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Sample Description: SL-114-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

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Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	1.1	J	0.52	1.6		1
10199	EFH (C15-C20)	n.a.	2.2		0.52	1.6		1
10199	EFH (C21-C30)	n.a.	6.5		0.52	1.6		1
10199	EFH (C30 - C40)	n.a.	13		0.52	1.6		1
10199	EFH (C8-C11)	n.a.	0.83	J	0.52	1.6		1
	Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. Similar results were detected in both extracts. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,500		130	650		1
10501	Isopropanol	67-63-0	2,800		130	650		1
10501	Methanol	67-56-1	2,600		130	650		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	150		6.5	16		1
08283	Ethylene glycol	107-21-1	180		6.5	16		1
08283	Propylene glycol	57-55-6	190		6.5	16		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	J	1.6	4.5		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	4.5		1
10318	p-Terphenyl	92-94-4	1.5	J	1.4	4.5		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	40,100		6.33	25.2		1
07914	Boron	7440-42-8	263		1.12	6.29		1
01650	Calcium	7440-70-2	67,800		7.71	25.2		1
01654	Iron	7439-89-6	33,300		5.92	25.2		1
01656	Lithium	7439-93-2	163		0.28	2.5		1
01657	Magnesium	7439-95-4	8,200		3.19	12.6		1
06958	Manganese	7439-96-5	349		0.0981	0.629		1
10145	Phosphorus	7723-14-0	343		0.704	12.6		1
01662	Potassium	7440-09-7	4,910		22.6	62.9		1
01667	Sodium	7440-23-5	1,540		46.9	126		1
07968	Strontium	7440-24-6	195		0.0780	0.629		1
06969	Tin	7440-31-5	425		1.26	12.6		1
06970	Titanium	7440-32-6	1,770		0.478	1.26		1
10146	Zirconium	7440-67-7	126		1.06	6.29		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.07		0.0777	0.259		2

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Sample Description: SL-114-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	12.0	0.104	0.518		2
06126	Barium	7440-39-3	169	0.140	0.518		2
06127	Beryllium	7440-41-7	2.20	0.0207	0.130		2
06128	Cadmium	7440-43-9	2.10	0.0518	0.130		2
06131	Chromium	7440-47-3	56.8	0.155	0.518		2
06132	Cobalt	7440-48-4	78.5	0.0259	0.130		2
06133	Copper	7440-50-8	30.0	0.0855	0.518		2
06135	Lead	7439-92-1	19.6	0.0135	0.259		2
06138	Molybdenum	7439-98-7	15.9	0.0648	0.130		2
06139	Nickel	7440-02-0	48.4	0.130	0.518		2
06141	Selenium	7782-49-2	3.04	0.0518	0.518		2
06142	Silver	7440-22-4	15.2	0.0155	0.130		2
06145	Thallium	7440-28-0	1.08	0.0389	0.130		2
06148	Vanadium	7440-62-2	97.5	0.0285	0.130		2
06149	Zinc	7440-66-6	90.6	0.725	3.89		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.233	0.0036	0.125		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	16.1	1.0	1.3		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	15.2	1.0	1.9		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	698	11.7	38.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	46.3	1.3	6.5		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	7.4	0.23	0.65		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	22.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-114-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 16:32	Chelsea B Eastep	0.82
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 17:17	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011 14:04	Jason M Long	21.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:18	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:19	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 01:37	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 17:06	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 09:32	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 19:28	Marie D John	19.2
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:18	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 07:26	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/17/2011 00:05	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 10:00	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/25/2011 01:19	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 19:36	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 17:51	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 03:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1

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Sample Description: SL-114-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 17:29	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 17:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/17/2011 23:34	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 16:28	Carrie E Miller	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:38	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Sample Description: SL-114-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	180	8.7	10		1
06192	Benzene	71-43-2	28	0.13	5.2		1
06192	Bromobenzene	108-86-1	28	0.17	5.2		1
06192	Bromochloromethane	74-97-5	31	0.43	5.2		1
06192	Bromodichloromethane	75-27-4	25	0.10	5.2		1
06192	Bromoform	75-25-2	20	0.52	5.2		1
06192	Bromomethane	74-83-9	24	0.32	5.2		1
06192	2-Butanone	78-93-3	170	1.6	10		1
06192	n-Butylbenzene	104-51-8	31	0.16	5.2		1
06192	sec-Butylbenzene	135-98-8	31	0.08	5.2		1
06192	tert-Butylbenzene	98-06-6	28	0.21	5.2		1
06192	Carbon Tetrachloride	56-23-5	27	0.18	5.2		1
06192	Chlorobenzene	108-90-7	27	0.14	5.2		1
06192	Chloroethane	75-00-3	24	0.17	5.2		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	21	0.39	5.2		1
06192	Chloroform	67-66-3	28	0.16	5.2		1
06192	Chloromethane	74-87-3	25	0.43	5.2		1
06192	2-Chlorotoluene	95-49-8	29	0.18	5.2		1
06192	4-Chlorotoluene	106-43-4	28	0.18	5.2		1
06192	Chlorotrifluoroethene	79-38-9	21	0.57	5.7		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	19	0.91	5.2		1
06192	Dibromochloromethane	124-48-1	22	0.26	5.2		1
06192	1,2-Dibromoethane	106-93-4	24	0.22	5.2		1
06192	Dibromomethane	74-95-3	25	0.31	5.2		1
06192	1,2-Dichlorobenzene	95-50-1	25	0.12	5.2		1
06192	1,3-Dichlorobenzene	541-73-1	27	0.16	5.2		1
06192	1,4-Dichlorobenzene	106-46-7	26	0.21	5.2		1
06192	Dichlorodifluoromethane	75-71-8	21	0.16	5.2		1
06192	1,1-Dichloroethane	75-34-3	28	0.13	5.2		1
06192	1,2-Dichloroethane	107-06-2	26	0.19	5.2		1
06192	1,1-Dichloroethene	75-35-4	32	0.51	5.2		1
06192	cis-1,2-Dichloroethene	156-59-2	28	0.25	5.2		1
06192	trans-1,2-Dichloroethene	156-60-5	29	0.16	5.2		1
06192	1,2-Dichloropropane	78-87-5	27	0.22	5.2		1
06192	1,3-Dichloropropane	142-28-9	25	0.10	5.2		1
06192	2,2-Dichloropropane	594-20-7	26	0.22	5.2		1
06192	1,1-Dichloropropene	563-58-6	29	0.17	5.2		1
06192	cis-1,3-Dichloropropene	10061-01-5	24	0.21	5.2		1
06192	trans-1,3-Dichloropropene	10061-02-6	23	0.22	5.2		1
06192	Ethylbenzene	100-41-4	28	0.08	5.2		1
06192	Freon 113	76-13-1	35	0.14	5.2		1
06192	Freon 133a	75-88-7	27	0.57	5.7		0.89
06192	Hexachlorobutadiene	87-68-3	25	0.18	5.2		1
06192	2-Hexanone	591-78-6	110	2.1	10		1
06192	Isopropylbenzene	98-82-8	27	0.08	5.2		1
06192	p-Isopropyltoluene	99-87-6	30	0.14	5.2		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	24	0.27	5.2		1
06192	4-Methyl-2-pentanone	108-10-1	110	0.51	10		1
06192	Methylene Chloride	75-09-2	30	0.31	5.2		1
06192	n-Propylbenzene	103-65-1	32	0.09	5.2		1

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Sample Description: SL-114-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	26	0.13	5.2		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	24	0.14	5.2		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	25	0.30	5.2		1
06192	Tetrachloroethene	127-18-4	27	0.26	5.2		1
06192	Toluene	108-88-3	28	0.10	5.2		1
06192	1,2,3-Trichlorobenzene	87-61-6	21	0.18	5.2		1
06192	1,2,4-Trichlorobenzene	120-82-1	22	0.23	5.2		1
06192	1,1,1-Trichloroethane	71-55-6	27	0.26	5.2		1
06192	1,1,2-Trichloroethane	79-00-5	25	0.35	5.2		1
06192	Trichloroethene	79-01-6	27	0.19	5.2		1
06192	Trichlorofluoromethane	75-69-4	29	0.38	5.2		1
06192	1,2,3-Trichloropropane	96-18-4	25	0.43	5.2		1
06192	1,2,4-Trimethylbenzene	95-63-6	29	0.52	5.2		1
06192	1,3,5-Trimethylbenzene	108-67-8	29	0.13	5.2		1
06192	Vinyl Chloride	75-01-4	26	0.26	5.2		1
06192	m+p-Xylene	179601-23-1	55	0.22	5.2		1
06192	o-Xylene	95-47-6	26	0.22	5.2		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	150	6.0	18		23.06
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	722	216	432		10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,900	22	220		1
04688	Acenaphthylene	208-96-8	2,000	22	220		1
04688	Aniline	62-53-3	1,400	220	650		1
04688	Anthracene	120-12-7	1,900	22	220		1
04688	Benzidine	92-87-5	4,400	1,500	4,300		1
04688	Benzo(a)anthracene	56-55-3	1,900	22	220		1
04688	Benzo(a)pyrene	50-32-8	2,200	22	220		1
04688	Benzo(b)fluoranthene	205-99-2	2,300	22	220		1
04688	Benzo(g,h,i)perylene	191-24-2	2,200	22	220		1
04688	Benzo(k)fluoranthene	207-08-9	2,100	22	220		1
04688	Benzoic acid	65-85-0	950	220	650		1
04688	Benzyl alcohol	100-51-6	1,700	220	650		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900	22	220		1
04688	Butylbenzylphthalate	85-68-7	2,000	22	220		1
04688	Di-n-butylphthalate	84-74-2	1,800	22	220		1
04688	Carbazole	86-74-8	1,900	22	220		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700	43	220		1
04688	4-Chloroaniline	106-47-8	1,600	86	220		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	22	220		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700	22	220		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500	22	220		1
04688	2-Chloronaphthalene	91-58-7	1,500	22	220		1
04688	2-Chlorophenol	95-57-8	1,800	22	220		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900	43	220		1
04688	Chrysene	218-01-9	2,000	22	220		1
04688	Dibenz(a,h)anthracene	53-70-3	2,200	22	220		1
04688	Dibenzofuran	132-64-9	1,900	22	220		1
04688	1,2-Dichlorobenzene	95-50-1	1,800	22	220		1
04688	1,3-Dichlorobenzene	541-73-1	1,800	22	220		1
04688	1,4-Dichlorobenzene	106-46-7	1,800	22	220		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300	130	430		1
04688	2,4-Dichlorophenol	120-83-2	1,900	22	220		1
04688	Diethylphthalate	84-66-2	1,800	22	220		1
04688	2,4-Dimethylphenol	105-67-9	1,700	43	220		1
04688	3,5-Dimethylphenol	108-68-9	1,900	43	220		1
04688	Dimethylphthalate	131-11-3	1,900	22	220		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,700	220	650		1
04688	2,4-Dinitrophenol	51-28-5	2,600	430	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	43	220		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	22	220		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	22	220		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	22	430		1
04688	Fluoranthene	206-44-0	1,900	22	220		1
04688	Fluorene	86-73-7	1,900	22	220		1
04688	Hexachlorobenzene	118-74-1	2,000	22	220		1
04688	Hexachlorobutadiene	87-68-3	1,900	86	220		1
04688	Hexachlorocyclopentadiene	77-47-4	4,100	220	650		1
04688	Hexachloroethane	67-72-1	1,600	22	220		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,200	22	220		1
04688	Isophorone	78-59-1	1,600	22	220		1
04688	1-Methylnaphthalene	90-12-0	1,900	22	220		1
04688	2-Methylnaphthalene	91-57-6	1,800	22	220		1
04688	2-Methylphenol	95-48-7	1,700	43	220		1
04688	4-Methylphenol	106-44-5	1,800	43	220		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	22	220		1
04688	2-Nitroaniline	88-74-4	1,800	22	220		1
04688	3-Nitroaniline	99-09-2	1,800	43	220		1
04688	4-Nitroaniline	100-01-6	1,500	86	220		1
04688	Nitrobenzene	98-95-3	1,600	22	220		1
04688	2-Nitrophenol	88-75-5	1,800	22	220		1
04688	4-Nitrophenol	100-02-7	1,400	220	650		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	43	220		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	22	220		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000	22	220		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,200	22	220		1
04688	Pentachlorophenol	87-86-5	1,700	220	650		1
04688	Phenanthrene	85-01-8	1,900	22	220		1

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	1,700		22	220		1
04688	Pyrene	129-00-0	2,100		22	220		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900		22	220		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		43	220		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900		43	220		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	37		0.86	2.2		1
10138	Acenaphthylene	208-96-8	37		0.43	2.2		1
10138	Anthracene	120-12-7	39		0.43	2.2		1
10138	Benzo(a)anthracene	56-55-3	42		0.86	2.2		1
10138	Benzo(a)pyrene	50-32-8	44		0.86	2.2		1
10138	Benzo(b)fluoranthene	205-99-2	45		0.86	2.2		1
10138	Benzo(g,h,i)perylene	191-24-2	50		0.86	2.2		1
10138	Benzo(k)fluoranthene	207-08-9	47		0.86	2.2		1
10138	Butylbenzylphthalate	85-68-7	43		7.8	23		1
10138	Di-n-butylphthalate	84-74-2	46		7.8	23		1
10138	Chrysene	218-01-9	42		0.43	2.2		1
10138	Dibenz(a,h)anthracene	53-70-3	52		0.86	2.2		1
10138	Diethylphthalate	84-66-2	43		7.8	23		1
10138	Dimethylphthalate	131-11-3	43		7.8	23		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	48		7.8	23		1
10138	Fluoranthene	206-44-0	44		0.86	2.2		1
10138	Fluorene	86-73-7	40		0.86	2.2		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	52		0.86	2.2		1
10138	1-Methylnaphthalene	90-12-0	37		0.86	2.2		1
10138	2-Methylnaphthalene	91-57-6	34		0.86	2.2		1
10138	Naphthalene	91-20-3	36		0.86	2.2		1
10138	N-Nitrosodimethylamine	62-75-9	36		0.86	2.2		1
10138	Di-n-octylphthalate	117-84-0	55		7.8	23		1
10138	Phenanthrene	85-01-8	39		0.86	2.2		1
10138	Pyrene	129-00-0	37		0.86	2.2		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 11 ug/kg
di-n-octylphthalate 11 ug/kg
These blank values were not subtracted from the analytical results.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.7		0.2	1.2		22.6
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	3,000		78	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,900		52	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	260	U	260	780	10000000	1

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Sample Description: SL-114-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	260	U	260	780	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,800		52	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,800		52	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	3,000		52	160	10000000	1
10132	HMX	2691-41-0	2,500		130	390	10000000	1
10132	Nitrobenzene	98-95-3	2,700		52	160	10000000	1
10132	Nitroglycerin	55-63-0	64,000		1,000	3,100	10000000	1
10132	2-Nitrotoluene	88-72-2	2,800		100	160	10000000	1
10132	3-Nitrotoluene	99-08-1	2,800		130	160	10000000	1
10132	4-Nitrotoluene	99-99-0	2,700		100	160	10000000	1
10132	PETN	78-11-5	72,000		1,000	3,100	10000000	1
10132	RDX	121-82-4	2,300		65	160	10000000	1
10132	Tetryl	479-45-8	2,400		79	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,800		52	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,900		52	160	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	6,200		780	1,900		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.3		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.3		1
10225	Aroclor 5460	11126-42-4	1.3	U	1.3	4.3		1
10225	PCB-1016	12674-11-2	20		0.43	2.2		1
10225	PCB-1221	11104-28-2	0.43	U	0.43	2.2		1
10225	PCB-1232	11141-16-5	0.43	U	0.43	2.2		1
10225	PCB-1242	53469-21-9	0.43	U	0.43	2.2		1
10225	PCB-1248	12672-29-6	0.43	U	0.43	2.2		1
10225	PCB-1254	11097-69-1	0.43	U	0.43	2.2		1
10225	PCB-1260	11096-82-5	23		0.51	2.2		1
10225	PCB-1262	37324-23-5	0.43	U	0.43	2.2		1
10225	PCB-1268	11100-14-4	0.43	U	0.43	2.2		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the

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Sample Description: SL-114-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.2	J	0.52	1.6		1
10199	EFH (C15-C20)	n.a.	2.3		0.52	1.6		1
10199	EFH (C21-C30)	n.a.	6.3		0.52	1.6		1
10199	EFH (C30 - C40)	n.a.	12		0.52	1.6		1
10199	EFH (C8-C11)	n.a.	0.88	J	0.52	1.6		1
	Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. Similar results were detected in both extracts. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,500		130	650		1
10501	Isopropanol	67-63-0	2,700		130	650		1
10501	Methanol	67-56-1	2,600		130	650		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	190		6.5	16		1
08283	Ethylene glycol	107-21-1	190		6.5	16		1
08283	Propylene glycol	57-55-6	190		6.5	16		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	J	1.6	4.5		1
10318	o-Terphenyl	84-15-1	1.9	J	1.8	4.5		1
10318	p-Terphenyl	92-94-4	1.6	J	1.6	4.5		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,200		6.52	25.9		1
07914	Boron	7440-42-8	270		1.15	6.48		1
01650	Calcium	7440-70-2	76,700		39.7	130		5
01654	Iron	7439-89-6	30,800		6.10	25.9		1
01656	Lithium	7439-93-2	167		0.28	2.6		1
01657	Magnesium	7439-95-4	7,820		3.29	13.0		1
06958	Manganese	7439-96-5	369		0.101	0.648		1
10145	Phosphorus	7723-14-0	361		0.725	13.0		1
01662	Potassium	7440-09-7	4,860		23.3	64.8		1
01667	Sodium	7440-23-5	1,560		48.3	130		1
07968	Strontium	7440-24-6	188		0.0803	0.648		1
06969	Tin	7440-31-5	439		1.30	13.0		1
06970	Titanium	7440-32-6	1,750		0.492	1.30		1
10146	Zirconium	7440-67-7	130		1.09	6.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.970		0.0762	0.254		2

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	12.0	0.102	0.508		2
06126	Barium	7440-39-3	166	0.137	0.508		2
06127	Beryllium	7440-41-7	2.15	0.0203	0.127		2
06128	Cadmium	7440-43-9	1.81	0.0508	0.127		2
06131	Chromium	7440-47-3	55.7	0.152	0.508		2
06132	Cobalt	7440-48-4	69.9	0.0254	0.127		2
06133	Copper	7440-50-8	29.0	0.0838	0.508		2
06135	Lead	7439-92-1	17.0	0.0132	0.254		2
06138	Molybdenum	7439-98-7	14.6	0.0635	0.127		2
06139	Nickel	7440-02-0	41.7	0.127	0.508		2
06141	Selenium	7782-49-2	2.85	0.0508	0.508		2
06142	Silver	7440-22-4	15.0	0.0152	0.127		2
06145	Thallium	7440-28-0	0.904	0.0381	0.127		2
06148	Vanadium	7440-62-2	94.3	0.0279	0.127		2
06149	Zinc	7440-66-6	90.8	0.711	3.81		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.218	0.0035	0.122		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	22.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-114-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 16:54	Chelsea B Eastep	1
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 17:39	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011 14:24	Jason M Long	23.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:22	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 01:54	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 17:31	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 10:04	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 20:05	Marie D John	22.6
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:22	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 08:09	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/17/2011 00:14	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 10:18	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/25/2011 01:44	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 19:51	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 18:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 05:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/19/2011 10:10	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-114-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228981
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	35,900		6.26	24.9		1
07914	Boron	7440-42-8	13.2		1.11	6.23		1
01650	Calcium	7440-70-2	43,100		7.64	24.9		1
01654	Iron	7439-89-6	33,000		29.3	125		5
01656	Lithium	7439-93-2	32.5		0.27	2.5		1
01657	Magnesium	7439-95-4	8,050		3.16	12.5		1
06958	Manganese	7439-96-5	461		0.0972	0.623		1
10145	Phosphorus	7723-14-0	270		0.697	12.5		1
01662	Potassium	7440-09-7	3,490		22.4	62.3		1
01667	Sodium	7440-23-5	274		46.5	125		1
07968	Strontium	7440-24-6	67.9		0.0772	0.623		1
06969	Tin	7440-31-5	2.80	J	1.25	12.5		1
06970	Titanium	7440-32-6	1,540		0.473	1.25		1
10146	Zirconium	7440-67-7	6.60		1.05	6.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.201	J	0.0770	0.257		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.38		0.103	0.513		2
06126	Barium	7440-39-3	120		0.139	0.513		2
06127	Beryllium	7440-41-7	0.950		0.0205	0.128		2
06128	Cadmium	7440-43-9	0.271		0.0513	0.128		2
06131	Chromium	7440-47-3	36.4		0.154	0.513		2
06132	Cobalt	7440-48-4	9.88		0.0257	0.128		2
06133	Copper	7440-50-8	15.9		0.0846	0.513		2
06135	Lead	7439-92-1	11.3		0.0133	0.257		2
06138	Molybdenum	7439-98-7	0.310		0.0641	0.128		2
06139	Nickel	7440-02-0	23.4		0.128	0.513		2
06141	Selenium	7782-49-2	0.0855	J	0.0513	0.513		2
06142	Silver	7440-22-4	0.0610	J	0.0154	0.128		2
06145	Thallium	7440-28-0	0.324		0.0385	0.128		2
06148	Vanadium	7440-62-2	68.6		0.0282	0.128		2
06149	Zinc	7440-66-6	70.4		0.718	3.85		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0142	J	0.0036	0.125		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.6		1.0	1.3		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		1.0	1.9		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.7	U	11.7	38.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	U	0.26	1.3		1

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Sample Description: SL-114-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228981
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.23	U	0.23	0.63		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	328		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.06		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	22.9		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	22.8		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/19/2011 10:04	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:02	Choon Y Tian	2

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Analysis Report

Sample Description: SL-114-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228981
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 17:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 17:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/17/2011 23:10	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 16:59	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:39	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		0.88
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.88
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.88
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.88
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.88
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.88
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.88
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		0.88
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.88
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.88
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.88
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		0.88
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.88
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.88
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.88
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.88
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		0.88
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		0.88
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		0.88
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.88
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.88
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.88
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.88
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.88
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.88
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.88
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.88
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.88
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.88
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.88
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.88
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.88
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.88
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		0.88
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.88
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.88
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		0.88
06192	Methylene Chloride	75-09-2	0.70	J	0.27	4.4		0.88
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.88

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Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4		0.88
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.88
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.88
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.88
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.88
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.88
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.88
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		21.82
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	351	J	211	421		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	210	U	210	630		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200		1
04688	Benzoic acid	65-85-0	210	U	210	630		1
04688	Benzyl alcohol	100-51-6	210	U	210	630		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Di-n-butylphthalate	84-74-2	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210		1
04688	4-Chloroaniline	106-47-8	84	U	84	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	420		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210		1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210		1

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Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	630		1
04688	2,4-Dinitrophenol	51-28-5	420	U	420	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	84	U	84	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	630		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	42	U	42	210		1
04688	4-Methylphenol	106-44-5	42	U	42	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	42	U	42	210		1
04688	4-Nitroaniline	100-01-6	84	U	84	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	630		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	21	U	21	210		1
04688	Pentachlorophenol	87-86-5	210	U	210	630		1
04688	Phenol	108-95-2	21	U	21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210		1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.84	U	0.84	2.1		1
10138	Acenaphthylene	208-96-8	0.42	U	0.42	2.1		1
10138	Anthracene	120-12-7	0.42	U	0.42	2.1		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.84	2.1		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.84	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.84	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	0.84	U	0.84	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	0.84	U	0.84	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.6	U	7.6	23		1
10138	Chrysene	218-01-9	1.5	J	0.42	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.84	U	0.84	2.1		1
10138	Diethylphthalate	84-66-2	7.6	U	7.6	23		1
10138	Dimethylphthalate	131-11-3	7.6	U	7.6	23		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.6	U	7.6	23		1
10138	Fluoranthene	206-44-0	1.3	J	0.84	2.1		1

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Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.84	U	0.84	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	U	0.84	2.1		1
10138	1-Methylnaphthalene	90-12-0	0.84	U	0.84	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.84	U	0.84	2.1		1
10138	Naphthalene	91-20-3	0.84	U	0.84	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.84	U	0.84	2.1		1
10138	Phenanthrene	85-01-8	0.84	U	0.84	2.1		1
10138	Pyrene	129-00-0	1.3	J	0.84	2.1		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	73	U	73	150	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	49	U	49	150	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	97	U	97	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	97	U	97	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	49	U	49	150	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	49	U	49	150	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	49	U	49	150	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	49	U	49	150	10000000	1
10132	Nitroglycerin	55-63-0	970	U	970	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	97	U	97	150	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	150	10000000	1
10132	4-Nitrotoluene	99-99-0	97	U	97	150	10000000	1
10132	PETN	78-11-5	970	U	970	2,900	10000000	1
10132	RDX	121-82-4	61	U	61	150	10000000	1
10132	Tetryl	479-45-8	74	U	74	150	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	49	U	49	150	10000000	1

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Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	49	U	49	150	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	750	U	750	1,900		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.2		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.2		1
10225	Aroclor 5460	11126-42-4	1.3	U	1.3	4.2		1
10225	PCB-1016	12674-11-2	0.42	U	0.42	2.1		1
10225	PCB-1221	11104-28-2	0.42	U	0.42	2.1		1
10225	PCB-1232	11141-16-5	0.42	U	0.42	2.1		1
10225	PCB-1242	53469-21-9	0.42	U	0.42	2.1		1
10225	PCB-1248	12672-29-6	0.42	U	0.42	2.1		1
10225	PCB-1254	11097-69-1	0.42	U	0.42	2.1		1
10225	PCB-1260	11096-82-5	0.49	U	0.49	2.1		1
10225	PCB-1262	37324-23-5	0.42	U	0.42	2.1		1
10225	PCB-1268	11100-14-4	0.42	U	0.42	2.1		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.51	U	0.51	1.5		1
10199	EFH (C15-C20)	n.a.	0.51	U	0.51	1.5		1
10199	EFH (C21-C30)	n.a.	1.5		0.51	1.5		1
10199	EFH (C30 - C40)	n.a.	3.7		0.51	1.5		1
10199	EFH (C8-C11)	n.a.	0.51	U	0.51	1.5		1

Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The C21-C30 and C30-C40 results for the original extraction are ND and 1.0 mg/kg respectively. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	130	U	130	630		1
10501	Isopropanol	67-63-0	130	U	130	630		1
10501	Methanol	67-56-1	130	U	130	630		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.3	U	6.3	16		1
08283	Ethylene glycol	107-21-1	6.3	U	6.3	16		1
08283	Propylene glycol	57-55-6	6.3	U	6.3	16		1

The sample was injected numerous times. Each time the responses for various

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.9	U	1.9	4.4		1
10318	o-Terphenyl	84-15-1	1.9	U	1.9	4.4		1
10318	p-Terphenyl	92-94-4	1.9	U	1.9	4.4		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	35,400		6.17	24.5		1
07914	Boron	7440-42-8	13.4		1.09	6.13		1
01650	Calcium	7440-70-2	25,500		7.51	24.5		1
01654	Iron	7439-89-6	34,500		28.9	123		5
01656	Lithium	7439-93-2	32.7		0.27	2.5		1
01657	Magnesium	7439-95-4	8,690		3.11	12.3		1
06958	Manganese	7439-96-5	455		0.0956	0.613		1
10145	Phosphorus	7723-14-0	325		0.686	12.3		1
01662	Potassium	7440-09-7	3,540		22.1	61.3		1
01667	Sodium	7440-23-5	263		45.7	123		1
07968	Strontium	7440-24-6	67.3		0.0760	0.613		1
06969	Tin	7440-31-5	2.95	J	1.23	12.3		1
06970	Titanium	7440-32-6	1,570		0.466	1.23		1
10146	Zirconium	7440-67-7	5.48	J	1.03	6.13		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.187	J	0.0743	0.248		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.53		0.0990	0.495		2
06126	Barium	7440-39-3	122		0.134	0.495		2
06127	Beryllium	7440-41-7	0.934		0.0198	0.124		2
06128	Cadmium	7440-43-9	0.336		0.0495	0.124		2
06131	Chromium	7440-47-3	34.8		0.149	0.495		2
06132	Cobalt	7440-48-4	10.4		0.0248	0.124		2
06133	Copper	7440-50-8	15.4		0.0817	0.495		2
06135	Lead	7439-92-1	11.3		0.0129	0.248		2
06138	Molybdenum	7439-98-7	0.378		0.0619	0.124		2
06139	Nickel	7440-02-0	24.4		0.124	0.495		2
06141	Selenium	7782-49-2	0.134	J	0.0495	0.495		2
06142	Silver	7440-22-4	0.0375	J	0.0149	0.124		2
06145	Thallium	7440-28-0	0.310		0.0371	0.124		2
06148	Vanadium	7440-62-2	66.3		0.0272	0.124		2
06149	Zinc	7440-66-6	69.5		0.693	3.71		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0079	J	0.0034	0.119		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.9		1.0	1.3		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	J	1.0	1.9		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.4	U	11.4	37.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	U	0.25	1.3		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.23	U	0.23	0.63		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	364		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.31		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	20.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-114-SA5A-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011	18:02	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	15:04	Jason M Long	21.82
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011	13:26	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-114-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:26	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 03:01	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 21:42	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 12:10	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 21:54	Marie D John	22.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:26	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 10:16	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/17/2011 00:24	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 10:37	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/24/2011 22:46	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 20:21	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 20:03	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 05:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/19/2011 10:24	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 19:00	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 19:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/18/2011 00:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 17:18	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:40	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.9
06192	Methylene Chloride	75-09-2	1.3	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

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Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.97
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	188	U	188	376		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1

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Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.88	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.53	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.3
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
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10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.71	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	5.5		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	19		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1

Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The C21-C30 and C30-C40 results for the original extraction are 0.80 mg/kg and 3.4 mg/kg respectively. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various

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SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

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10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,600		5.61	22.3		1
07914	Boron	7440-42-8	4.17	J	0.993	5.58		1
01650	Calcium	7440-70-2	3,420		6.84	22.3		1
01654	Iron	7439-89-6	18,700		5.26	22.3		1
01656	Lithium	7439-93-2	25.3		0.25	2.2		1
01657	Magnesium	7439-95-4	4,420		2.84	11.2		1
06958	Manganese	7439-96-5	273		0.0871	0.558		1
10145	Phosphorus	7723-14-0	337		0.625	11.2		1
01662	Potassium	7440-09-7	2,810		20.1	55.8		1
01667	Sodium	7440-23-5	112		41.6	112		1
07968	Strontium	7440-24-6	15.0		0.0692	0.558		1
06969	Tin	7440-31-5	2.57	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,100		0.424	1.12		1
10146	Zirconium	7440-67-7	0.941	J	0.938	5.58		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0676	U	0.0676	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.09		0.0902	0.451		2
06126	Barium	7440-39-3	69.8		0.122	0.451		2
06127	Beryllium	7440-41-7	0.496		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.138		0.0451	0.113		2
06131	Chromium	7440-47-3	14.4		0.135	0.451		2
06132	Cobalt	7440-48-4	4.56		0.0225	0.113		2
06133	Copper	7440-50-8	6.37		0.0744	0.451		2
06135	Lead	7439-92-1	4.50		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.356		0.0564	0.113		2
06139	Nickel	7440-02-0	9.69		0.113	0.451		2
06141	Selenium	7782-49-2	0.0866	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0199	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.250		0.0338	0.113		2
06148	Vanadium	7440-62-2	30.2		0.0248	0.113		2
06149	Zinc	7440-66-6	58.9		0.631	3.38		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.90	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	426		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-113-SA5A-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011	18:24	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	15:24	Jason M Long	21.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011	13:31	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:31	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 03:18	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 22:06	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 12:42	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 22:30	Marie D John	25.3
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:30	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 10:58	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/17/2011 00:33	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 10:56	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/25/2011 02:10	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 20:36	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 20:17	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 08:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 19:15	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 19:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/18/2011 00:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 17:43	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:41	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.84
06192	Benzene	71-43-2	0.12	J	0.09	3.7		0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.84
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.84
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.84
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.84
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.84
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.84
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.84
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.84
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7		0.84
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.84
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.84
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.84
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.84
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.84
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.84
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.84
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.84
06192	Methylene Chloride	75-09-2	2.2	J	0.22	3.7		0.84
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.84

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.84
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.84
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.84
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.84
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.32
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	182	U	182	364		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1

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Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1

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Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.81	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.83
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1

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Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	840	J	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.69	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	1.2	J	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	5.3		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
	Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The chlorobenzene surrogate recovery for the re-extraction is outside the method limits. The range that the surrogate represents is ND. The C21-C30 and C30-C40 results for the original extraction are ND and 0.70 mg/kg respectively. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1

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Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,800		5.33	21.2		1
07914	Boron	7440-42-8	2.77	J	0.942	5.29		1
01650	Calcium	7440-70-2	4,350		6.49	21.2		1
01654	Iron	7439-89-6	22,200		4.99	21.2		1
01656	Lithium	7439-93-2	13.7		0.23	2.1		1
01657	Magnesium	7439-95-4	5,920		2.69	10.6		1
06958	Manganese	7439-96-5	335		0.0826	0.529		1
10145	Phosphorus	7723-14-0	801		0.593	10.6		1
01662	Potassium	7440-09-7	4,220		19.1	52.9		1
01667	Sodium	7440-23-5	220		39.5	106		1
07968	Strontium	7440-24-6	29.1		0.0656	0.529		1
06969	Tin	7440-31-5	2.09	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,620		0.402	1.06		1
10146	Zirconium	7440-67-7	0.889	U	0.889	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0635	U	0.0635	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.22		0.0847	0.424		2
06126	Barium	7440-39-3	132		0.114	0.424		2
06127	Beryllium	7440-41-7	0.256		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.171		0.0424	0.106		2
06131	Chromium	7440-47-3	10.7		0.127	0.424		2
06132	Cobalt	7440-48-4	6.63		0.0212	0.106		2
06133	Copper	7440-50-8	17.9		0.0699	0.424		2
06135	Lead	7439-92-1	3.63		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.335		0.0529	0.106		2
06139	Nickel	7440-02-0	7.84		0.106	0.424		2
06141	Selenium	7782-49-2	0.0424	U	0.0424	0.424		2
06142	Silver	7440-22-4	0.0263	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.225		0.0318	0.106		2
06148	Vanadium	7440-62-2	45.7		0.0233	0.106		2
06149	Zinc	7440-66-6	1,100		5.93	31.8		20

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Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
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Project Name: SSFL Area IV Collocated Soil Sampling

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10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0337	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	423		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.48		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-113-SA5A-SB-14.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 18:46	Chelsea B Eastep	0.84

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Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

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10307 SDG#: DE102-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011 15:44	Jason M Long	22.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:34	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:35	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 03:35	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/26/2011 03:11	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 13:13	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 23:07	Marie D John	20.83
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:34	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 11:41	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/17/2011 00:52	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 11:14	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/24/2011 23:11	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 20:51	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 20:30	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 06:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-113-SA5A-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10307 SDG#: DE102-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 23:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 23:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 23:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/22/2011 21:41	David K Beck	20
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 19:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 19:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/18/2011 01:10	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 17:49	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11082102201A	03/23/2011 16:26	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11082102201A	03/23/2011 10:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.97
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.97
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.97
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.97
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.97
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.97
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.97
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.97
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.97
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.97
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.97
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.97
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.97
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.97
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.97
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.97
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.97
06192	Methylene Chloride	75-09-2	0.95	J	0.26	4.4		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.97

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-227-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.97
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.97
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.97
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.97
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.97
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	190	U	190	380		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-227-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.94	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.75	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1

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Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	1.0	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.33
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1

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Sample Description: SL-227-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.3		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	5.9		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
	Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The C21-C30 and C30-C40 results for the original extraction are 0.60 and 1.5 mg/kg respectively. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various							

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Sample Description: SL-227-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,600		5.57	22.1		1
07914	Boron	7440-42-8	5.19	J	0.985	5.54		1
01650	Calcium	7440-70-2	2,980		6.79	22.1		1
01654	Iron	7439-89-6	22,000		5.21	22.1		1
01656	Lithium	7439-93-2	32.0		0.24	2.2		1
01657	Magnesium	7439-95-4	5,020		2.81	11.1		1
06958	Manganese	7439-96-5	225		0.0863	0.554		1
10145	Phosphorus	7723-14-0	268		0.620	11.1		1
01662	Potassium	7440-09-7	2,490		19.9	55.4		1
01667	Sodium	7440-23-5	371		41.3	111		1
07968	Strontium	7440-24-6	22.2		0.0686	0.554		1
06969	Tin	7440-31-5	2.90	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,300		0.421	1.11		1
10146	Zirconium	7440-67-7	2.06	J	0.930	5.54		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0901	J	0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.07		0.0894	0.447		2
06126	Barium	7440-39-3	140		0.121	0.447		2
06127	Beryllium	7440-41-7	0.765		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.161		0.0447	0.112		2
06131	Chromium	7440-47-3	27.1		0.134	0.447		2
06132	Cobalt	7440-48-4	9.06		0.0224	0.112		2
06133	Copper	7440-50-8	12.1		0.0738	0.447		2
06135	Lead	7439-92-1	17.7		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.642		0.0559	0.112		2
06139	Nickel	7440-02-0	20.9		0.112	0.447		2
06141	Selenium	7782-49-2	0.145	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0645	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.335		0.0335	0.112		2
06148	Vanadium	7440-62-2	49.5		0.0246	0.112		2
06149	Zinc	7440-66-6	67.8		0.626	3.35		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	418		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-227-SA5B-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011	19:08	Chelsea B Eastep	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	16:04	Jason M Long	20.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011	13:38	Christopher D Meeks	n.a.

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Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

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10308 SDG#: DE102-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:39	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 03:52	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/26/2011 03:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 13:45	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 23:43	Marie D John	21.33
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:38	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 12:23	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/17/2011 01:02	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 11:33	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/25/2011 00:28	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 21:05	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 20:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 07:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1

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Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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10308 SDG#: DE102-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 23:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 23:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 23:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 20:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 20:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/18/2011 01:34	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 18:07	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11082102201A	03/23/2011 16:32	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11082102201A	03/23/2011 10:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **TB-031111 Water**
SSFL Area IV Collocated Soil Sampling
TB-031111

LLI Sample # WW 6228986
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:00

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10309 SDG#: DE102-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **TB-031111 Water**
SSFL Area IV Collocated Soil Sampling
TB-031111

LLI Sample # WW 6228986
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:00

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10309 SDG#: DE102-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110741AA	03/15/2011	15:38	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110731AA	03/14/2011	12:14	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110731AA	03/14/2011	12:14	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110741AA	03/15/2011	15:38	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11075B20A	03/17/2011	12:21	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11075B20A	03/17/2011	12:21	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110741AA	Sample number(s): 6228975-6228980,6228982-6228985									
Acetone	6.7	U	6.7	8.0	ug/kg	104		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	101		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	99		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	118		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	90		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	80		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	79		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	101		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	108		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	112		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	100		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	91		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	96		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	78		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	84		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	98		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	82		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	83		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	91		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	86		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	96		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	70		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	98		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	101		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	98		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	91		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	99		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	119		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	107		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	99		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	100		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	98		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	100		61-134		
Methylene Chloride	0.67	J	0.24	4.0	ug/kg	107		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	110		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	93		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	89		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	102		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	94		77-120		
Toluene	0.11	J	0.08	4.0	ug/kg	99		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	94		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	96		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	86		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	93		80-120		
Batch number: E110731AA	Sample number(s): 6228986									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	115	80-123	4	30
Batch number: E110741AA	Sample number(s): 6228975-6228980,6228982-6228985									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	109	104	70-130	4	30
Batch number: Y110741AA	Sample number(s): 6228986									
Acetone	6	U	6.	20	ug/l	79	70	49-234	13	30
Benzene	0.5	U	0.5	5	ug/l	96	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	100	99	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	99	100	80-120	0	30
Bromodichloromethane	1	U	1.	5	ug/l	93	92	80-120	2	30
Bromoform	1	U	1.	5	ug/l	76	76	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	86	86	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	95	96	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	95	95	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	98	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	96	98	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	82	82	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	79	79	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	100	100	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	85	86	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	97	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	96	97	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	67	69	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	88	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	87	86	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	97	98	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	93	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	96	96	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	76	77	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	100	100	79-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	108	106	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	91	90	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	97	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	96	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	99	98	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	95	97	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	99	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	90	89	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	92	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	96	95	79-120	2	30
Freon 113	2	U	2.	10	ug/l	93	94	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	99	99	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	88	89	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	92	92	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	94	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	96	97	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	97	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	94	95	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	92	94	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	101	101	80-120	1	30
Styrene	1	U	1.	5	ug/l	89	88	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	94	94	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	93	94	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	95	94	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	94	94	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	93	93	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	92	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	86	88	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	95	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	96	96	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	92	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	100	101	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	99	99	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	98	98	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	79	78	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Batch number: 11076SLI026	Sample number(s): 6228975-6228980,6228982-6228985									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	89		70-130		
Batch number: 11076SLK026	Sample number(s): 6228975-6228980,6228982-6228985									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	90		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	104		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	122		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	120		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Di-n-butylphthalate	11	J	6.0	18	ug/kg	108		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	123		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	102		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	112		67-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	101		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	122		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	81		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	88		55-118		
Di-n-octylphthalate	11	J	6.0	18	ug/kg	120		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	92		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	91		56-121		
Batch number: 11082SLA026	Sample number(s): 6228975-6228980,6228982-6228985									
Acenaphthene	17	U	17.	170	ug/kg	88		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	92		75-122		
Aniline	170 U		170.	500	ug/kg	58		34-94		
Anthracene	17	U	17.	170	ug/kg	91		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	37		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	92		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	103		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	105		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	105		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	102		67-125		
Benzoic acid	170 U		170.	500	ug/kg	79		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	84		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	90		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	92		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	89		79-112		
Carbazole	17	U	17.	170	ug/kg	91		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	81		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	55		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	81		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	79		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	72		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	88		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	90		79-110		
Chrysene	17	U	17.	170	ug/kg	97		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	105		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	60		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	92		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	85		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	82		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	93		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	89		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	78		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	68		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	87		73-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	89		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	80		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	89		75-117		
Fluoranthene	17	U	17.	170	ug/kg	91		78-116		
Fluorene	17	U	17.	170	ug/kg	89		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	91		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	105		64-119		
Isophorone	17	U	17.	170	ug/kg	76		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	90		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	83		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	83		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	85		66-117		
Naphthalene	17	U	17.	170	ug/kg	86		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	87		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	66		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	74		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	87		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	71		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	70		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	66		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	101		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	83		51-117		
Phenanthrene	17	U	17.	170	ug/kg	92		77-113		
Phenol	17	U	17.	170	ug/kg	80		58-112		
Pyrene	17	U	17.	170	ug/kg	97		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	90		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11073A34A	Sample number(s): 6228975-6228980,6228982-6228985									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	72		67-119		
Batch number: 11075B20A	Sample number(s): 6228986									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 110750002A	Sample number(s): 6228975-6228980,6228982-6228985									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	117		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	112	112	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	111	111	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	113		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	110		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
HMX	100	U	100.	300	ug/kg	103		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	109		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	101		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	109		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	109		73-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80 U	U	80.	120	ug/kg	107		80-120		
PETN	800 U	U	800.	2,400	ug/kg	117		80-120		
RDX	50	U	50.	120	ug/kg	102		75-131		
Tetryl	61	U	61.	120	ug/kg	105		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 110730008A	Sample number(s): 6228975-6228980,6228982-6228985									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	96		80-126		
Batch number: 110750014A	Sample number(s): 6228975-6228980,6228982-6228985									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	78	74	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110760020A	Sample number(s): 6228976									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C21-C30)	0.48	J	0.40	1.2	mg/kg	104		66-113		
EFH (C30 - C40)	2.6		0.40	1.2	mg/kg	96		66-113		
EFH (C8-C11)	0.47	J	0.40	1.2	mg/kg	74		66-113		
Batch number: 110810023A	Sample number(s): 6228975,6228977-6228980,6228982-6228985									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	118*		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	121*		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	126*		66-113		
EFH (C30 - C40)	0.54	J	0.40	1.2	mg/kg	116*		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	94		66-113		
Batch number: 110730007A	Sample number(s): 6228975-6228980,6228982-6228985									
Diethylene glycol	5.0	U	5.0	13	mg/kg	102		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	85		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	80		75-125		
Batch number: 110750026A	Sample number(s): 6228975-6228980,6228982-6228985									
Ethanol	100 U	U	100.	500	ug/kg	95		71-129		
Isopropanol	100 U	U	100.	500	ug/kg	102		75-125		
Methanol	100 U	U	100.	500	ug/kg	91		68-129		
Batch number: 110760037A	Sample number(s): 6228975-6228980,6228982-6228985									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	78		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	91		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	75		75-125		

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Quality Control Summary

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Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110751026001A	Sample number(s): 6228975-6228985									
Antimony	0.0600	U	0.0600	0.200	mg/kg	95		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	110		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	105		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	101		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	106		80-120		
Lead	0.0105	J	0.0104	0.200	mg/kg	106		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	108		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	102		90-110		
Zinc	0.644	J	0.560	3.00	mg/kg	101		78-122		
Batch number: 110751026001B	Sample number(s): 6228975-6228985									
Selenium	0.0400	U	0.0400	0.400	mg/kg	113		79-122		
Batch number: 110751026001C	Sample number(s): 6228975-6228985									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	109		78-122		
Batch number: 110751026001D	Sample number(s): 6228975-6228985									
Barium	0.108	U	0.108	0.400	mg/kg	103		79-121		
Batch number: 110755708001	Sample number(s): 6228975-6228985									
Aluminum	5.03	U	5.03	20.0	mg/kg	99		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	98		78-110		
Calcium	8.02	J	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	93		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		81-119		
Phosphorus	1.34	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.44	J	1.00	10.0	mg/kg	98		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	98		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 110755711002	Sample number(s): 6228975-6228985									
Mercury	0.0028	U	0.0028	0.0985	mg/kg	98		88-123		
Batch number: 11074243201A	Sample number(s): 6228975-6228979,6228981-6228985									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11076076201A	Sample number(s): 6228975-6228977									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11076076201B	Sample number(s): 6228978-6228979,6228981-6228985									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11076495201A	Sample number(s): 6228975-6228979,6228981-6228985									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11081102201A	Sample number(s): 6228975-6228979,6228981-6228983									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	110		80-120		
Batch number: 11082102201A	Sample number(s): 6228984-6228985									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11074039401A	Sample number(s): 6228975-6228977									
18a pH by 9045C						100		95-105		
Batch number: 11074039401B	Sample number(s): 6228978,6228981-6228985									
18a pH by 9045C						100		95-105		
Batch number: 11074182101A	Sample number(s): 6228975-6228977									
32a OR Potential						99		98-102		
Batch number: 11074182101B	Sample number(s): 6228978,6228981-6228985									
32a OR Potential						99		98-102		
Batch number: 11083162401A	Sample number(s): 6228975-6228985									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110741AA	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
Acetone	111	93	15-210	3	30				
Benzene	106	109	55-143	24	30				
Bromobenzene	99	108	43-139	28	30				
Bromochloromethane	125	121	60-137	18	30				
Bromodichloromethane	93	95	53-136	23	30				
Bromoform	80	77	38-124	17	30				
Bromomethane	82	92	42-168	32*	30				
2-Butanone	101	86	37-163	5	30				
n-Butylbenzene	107	118	30-146	30	30				
sec-Butylbenzene	110	121	33-157	30	30				
tert-Butylbenzene	101	108	41-152	27	30				
Carbon Tetrachloride	97	103	45-153	26	30				
Chlorobenzene	98	104	49-135	27	30				
Chloroethane	84	94	39-152	32*	30				
2-Chloroethyl Vinyl Ether	80	80	32-139	21	30				
Chloroform	104	107	61-142	23	30				
Chloromethane	89	95	51-163	27	30				
2-Chlorotoluene	101	111	42-146	30	30				
4-Chlorotoluene	99	108	39-145	29	30				
Chlorotrifluoroethene	87	93	70-130	16	30				
1,2-Dibromo-3-chloropropane	84	75	30-139	9	30				
Dibromochloromethane	85	86	51-128	22	30				
1,2-Dibromoethane	97	94	54-129	18	30				
Dibromomethane	97	96	57-130	19	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichlorobenzene	92	98	36-133	26	30				
1,3-Dichlorobenzene	95	104	34-134	29	30				
1,4-Dichlorobenzene	94	102	35-136	29	30				
Dichlorodifluoromethane	76	82	26-151	28	30				
1,1-Dichloroethane	104	109	63-142	25	30				
1,2-Dichloroethane	101	99	68-131	19	30				
1,1-Dichloroethene	121	125	61-149	23	30				
cis-1,2-Dichloroethene	102	107	60-136	25	30				
trans-1,2-Dichloroethene	108	112	59-142	24	30				
1,2-Dichloropropane	102	105	62-135	23	30				
1,3-Dichloropropane	99	98	58-129	19	30				
2,2-Dichloropropane	96	101	53-147	26	30				
1,1-Dichloropropene	107	111	54-145	24	30				
cis-1,3-Dichloropropene	90	93	51-131	24	30				
trans-1,3-Dichloropropene	86	88	49-129	22	30				
Ethylbenzene	102	108	44-141	27	30				
Freon 113	131	134	56-156	23	30				
Freon 133a	116	118	61-131	10	30				
Hexachlorobutadiene	92	97	10-155	26	30				
2-Hexanone	99	86	32-160	7	30				
Isopropylbenzene	100	105	38-144	26	30				
p-Isopropyltoluene	107	117	29-152	29	30				
Methyl Tertiary Butyl Ether	96	94	55-129	18	30				
4-Methyl-2-pentanone	98	85	46-139	6	30				
Methylene Chloride	115	113	61-141	18	30				
n-Propylbenzene	111	125	39-157	32*	30				
Styrene	96	101	35-134	26	30				
1,1,1,2-Tetrachloroethane	89	91	52-130	24	30				
1,1,2,2-Tetrachloroethane	101	95	40-152	15	30				
Tetrachloroethene	101	103	42-149	23	30				
Toluene	102	107	50-146	25	30				
1,2,3-Trichlorobenzene	78	80	10-140	22	30				
1,2,4-Trichlorobenzene	82	84	10-136	23	30				
1,1,1-Trichloroethane	99	105	64-142	26	30				
1,1,2-Trichloroethane	98	96	54-139	19	30				
Trichloroethene	103	104	53-144	22	30				
Trichlorofluoromethane	105	113	47-163	27	30				
1,2,3-Trichloropropane	101	95	45-154	14	30				
1,2,4-Trimethylbenzene	102	112	37-149	30	30				
1,3,5-Trimethylbenzene	103	113	38-150	29	30				
Vinyl Chloride	93	100	50-154	28	30				
m+p-Xylene	99	106	44-137	28	30				
o-Xylene	94	101	42-137	27	30				
Batch number: E110741AA	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
1,4-Dioxane	95	98	70-130	11	30				
Batch number: 11076SLI026	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
N-Nitrosodimethylamine	68*	67*	70-130	2	30				
Batch number: 11076SLK026	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
Acenaphthene	91	86	63-105	5	30				
Acenaphthylene	90	85	67-114	5	30				

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Quality Control Summary

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Anthracene	96	91	60-122	5	30				
Benzo(a)anthracene	99	97	59-128	3	30				
Benzo(a)pyrene	107	103	45-138	4	30				
Benzo(b)fluoranthene	108	103	43-155	4	30				
Benzo(g,h,i)perylene	118	117	33-141	1	30				
Benzo(k)fluoranthene	111	108	42-144	2	30				
Butylbenzylphthalate	106	100	57-173	5	30				
Di-n-butylphthalate	77	73	65-148	3	30				
Chrysene	99	96	48-134	2	30				
Dibenz(a,h)anthracene	123	120	22-133	2	30				
Diethylphthalate	104	99	70-136	4	30				
Dimethylphthalate	103	101	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	114	110	39-167	3	30				
Fluoranthene	104	101	26-166	2	30				
Fluorene	96	93	66-122	3	30				
Indeno(1,2,3-cd)pyrene	121	119	21-143	1	30				
1-Methylnaphthalene	89	85	72-123	4	30				
2-Methylnaphthalene	81	78	64-103	4	30				
Naphthalene	89	83	61-102	6	30				
N-Nitrosodimethylamine	93	84	48-113	10	30				
Di-n-octylphthalate	128	128	40-192	0	30				
Phenanthrene	94	89	12-165	5	30				
Pyrene	90	86	15-153	4	30				
Batch number: 11082SLA026	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
Acenaphthene	85	87	75-115	3	30				
Acenaphthylene	89	91	81-110	2	30				
Aniline	61	64	35-95	5	30				
Anthracene	87	90	75-115	3	30				
Benzidine	45	41	35-141	9	30				
Benzo(a)anthracene	87	89	65-122	2	30				
Benzo(a)pyrene	98	102	57-126	4	30				
Benzo(b)fluoranthene	92	105	59-125	13	30				
Benzo(g,h,i)perylene	100	103	59-127	3	30				
Benzo(k)fluoranthene	106	98	56-132	8	30				
Benzoic acid	46	44	10-173	5	30				
Benzyl alcohol	76	80	67-115	6	30				
4-Bromophenyl-phenylether	87	90	67-129	3	30				
Butylbenzylphthalate	89	91	73-134	3	30				
Di-n-butylphthalate	83	85	67-123	3	30				
Carbazole	85	87	64-120	3	30				
4-Chloro-3-methylphenol	75*	78	76-110	3	30				
4-Chloroaniline	70	73	23-95	4	30				
bis(2-Chloroethoxy)methane	79	80	75-104	2	30				
bis(2-Chloroethyl)ether	75	79	60-116	4	30				
bis(2-Chloroisopropyl)ether	68	71	55-142	5	30				
2-Chloronaphthalene	71	71	50-141	0	30				
2-Chlorophenol	84	86	73-121	2	30				
4-Chlorophenyl-phenylether	88	90	80-109	2	30				
Chrysene	91	94	62-128	3	30				
Dibenz(a,h)anthracene	99	102	65-125	4	30				
Dibenzofuran	88	89	71-112	1	30				
1,2-Dichlorobenzene	79	83	66-108	5	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3-Dichlorobenzene	77	84	63-109	8	30				
1,4-Dichlorobenzene	77	84	70-100	8	30				
3,3'-Dichlorobenzidine	52	59	16-119	14	30				
2,4-Dichlorophenol	86	89	78-117	3	30				
Diethylphthalate	81	83	66-118	2	30				
2,4-Dimethylphenol	78	80	78-110	2	30				
3,5-Dimethylphenol	87	88	70-130	1	30				
Dimethylphthalate	84	87	64-118	3	30				
4,6-Dinitro-2-methylphenol	74	79	24-116	6	30				
2,4-Dinitrophenol	61	61	20-143	0	30				
2,4-Dinitrotoluene	82	83	73-113	1	30				
2,6-Dinitrotoluene	84	87	69-123	4	30				
1,2-Diphenylhydrazine	78	80	71-129	2	30				
bis(2-Ethylhexyl)phthalate	87	89	63-122	3	30				
Fluoranthene	85	89	73-112	4	30				
Fluorene	85	86	77-111	2	30				
Hexachlorobenzene	89	92	77-114	3	30				
Hexachlorobutadiene	83	88	62-120	6	30				
Hexachlorocyclopentadiene	87	94	10-153	8	30				
Hexachloroethane	70	76	57-109	7	30				
Indeno(1,2,3-cd)pyrene	96	102	61-126	6	30				
Isophorone	73	75	73-102	3	30				
1-Methylnaphthalene	86	89	73-112	3	30				
2-Methylnaphthalene	80	81	76-114	2	30				
2-Methylphenol	77	78	75-111	1	30				
4-Methylphenol	81	83	71-111	2	30				
Naphthalene	83	85	72-116	2	30				
2-Nitroaniline	83	85	67-125	2	30				
3-Nitroaniline	81	82	59-122	1	30				
4-Nitroaniline	64	69	52-112	8	30				
Nitrobenzene	72	73	72-106	1	30				
2-Nitrophenol	84	85	74-115	1	30				
4-Nitrophenol	65	65	54-113	0	30				
N-Nitroso-di-n-propylamine	66	68	60-116	3	30				
N-Nitrosodimethylamine	68	69	47-116	2	30				
N-Nitrosodiphenylamine	92	94	86-145	2	30				
Di-n-octylphthalate	99	100	56-126	1	30				
Pentachlorophenol	74	80	28-127	8	30				
Phenanthrene	87	89	65-125	3	30				
Phenol	75	77	58-126	3	30				
Pyrene	94	97	74-126	3	30				
1,2,4-Trichlorobenzene	86	90	72-115	4	30				
2,4,5-Trichlorophenol	87	89	78-109	2	30				
2,4,6-Trichlorophenol	86	88	77-115	2	30				
Batch number: 11073A34A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
9a TPH by EPA 8015B Gas C5-C12	59	60	39-118	18	30				
Batch number: 110750002A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
4-Amino-2,6-Dinitrotoluene	106	115	80-127	9	50				
2-Amino-4,6-Dinitrotoluene	102	110	80-137	10	50				
1,3-Dinitrobenzene	102	110	38-166	9	50				
2,4-Dinitrotoluene	99	107	80-131	9	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,6-Dinitrotoluene	104	114	80-127	12	50				
HMX	83	98	63-128	19	50				
Nitrobenzene	99	105	80-125	8	50				
Nitroglycerin	96	103	80-120	9	50				
2-Nitrotoluene	100	106	80-122	8	50				
3-Nitrotoluene	100	107	72-119	8	50				
4-Nitrotoluene	99	105	80-125	8	50				
PETN	105	116	80-121	12	50				
RDX	89	89	75-129	1	50				
Tetryl	84	93	55-174	12	50				
1,3,5-Trinitrobenzene	137*	109	82-126	21	50				
2,4,6-Trinitrotoluene	103	111	82-130	9	50				
Batch number: 110730008A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
25a Formaldehyde 8315A	99	95	80-120	4	50				
Batch number: 110750014A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
PCB-1016	88	94	29-146	7	50				
PCB-1260	95	107	39-149	12	50				
Batch number: 110760020A	Sample number(s): 6228976 UNSPK: P228978								
EFH (C12-C14)	81	79	49-123	3	20				
EFH (C15-C20)	101	102	49-123	2	20				
EFH (C21-C30)	107	179*	49-123	51*	20				
EFH (C30 - C40)	54	118	49-123	45*	20				
EFH (C8-C11)	81	73	49-123	11	20				
Batch number: 110810023A	Sample number(s): 6228975,6228977-6228980,6228982-6228985 UNSPK: 6228978								
EFH (C12-C14)	101	108	49-123	8	20				
EFH (C15-C20)	8*	15*	49-123	5	20				
EFH (C21-C30)	-28*	-37*	49-123	4	20				
EFH (C30 - C40)	-485 (2)	-518 (2)	49-123	9	20				
EFH (C8-C11)	77	81	49-123	6	20				
Batch number: 110730007A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
Diethylene glycol	54*	67	59-109	21*	20				
Ethylene glycol	68	73	63-107	6	20				
Propylene glycol	75	76	63-107	2	20				
Batch number: 110750026A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
Ethanol	79	77	48-130	2	20				
Isopropanol	85	83	12-149	2	20				
Methanol	81	79	43-138	3	20				
Batch number: 110760037A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
m-Terphenyl	72*	75	75-125	4	20				
o-Terphenyl	84	87	75-125	4	20				
p-Terphenyl	71*	74*	75-125	4	20				
Batch number: 110751026001A	Sample number(s): 6228975-6228985 UNSPK: 6228978 BKG: 6228978								
Antimony	50*	45*	75-125	10	20	0.224	0.155 J	36* (1)	20
Arsenic	105	107	75-125	0	20	7.19	5.70	23*	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Beryllium	102	99	75-125	2	20	0.883	0.733	18	20
Cadmium	128*	108	75-125	15	20	0.344	0.210	49* (1)	20
Chromium	96	89	75-125	2	20	34.2	28.1	20	20
Cobalt	105	94	75-125	12	20	7.97	7.62	4	20
Copper	95	89	75-125	4	20	13.6	12.3	10	20
Lead	162*	96	75-125	14	20	10.3	8.72	16	20
Nickel	160*	110	75-125	15	20	21.4	18.1	17	20
Silver	117	118	75-125	1	20	0.0603 J	0.0471 J	25* (1)	20
Thallium	128*	95	75-125	18	20	0.323	0.250	25* (1)	20
Vanadium	119 (2)	96 (2)	75-125	3	20	63.4	53.0	18	20
Zinc	66 (2)	69 (2)	75-125	0	20	63.4	54.4	15	20
Batch number: 110751026001B	Sample number(s): 6228975-6228985 UNSPK: 6228978 BKG: 6228978								
Selenium	111	106	75-125	7	20	0.125 J	0.0660 J	62* (1)	20
Batch number: 110751026001C	Sample number(s): 6228975-6228985 UNSPK: 6228978 BKG: 6228978								
Molybdenum	120	113	75-125	8	20	0.270	0.240	12 (1)	20
Batch number: 110751026001D	Sample number(s): 6228975-6228985 UNSPK: 6228978 BKG: 6228978								
Barium	134 (2)	116 (2)	75-125	2	20	117	92.8	23*	20
Batch number: 110755708001	Sample number(s): 6228975-6228985 UNSPK: 6228978 BKG: 6228978								
Aluminum	1171 (2)	414 (2)	75-125	5	20	28,700	27,700	3	20
Boron	99	99	84-115	2	20	10.7	10.2	5 (1)	20
Calcium	6342 (2)	7873 (2)	75-125	12	20	27,700	33,300	18	20
Iron	-650 (2)	-2631 (2)	75-125	8	20	26,400	25,500	4	20
Lithium	104	103	82-114	2	20	25.5	25.1	2	20
Magnesium	-50 (2)	-194 (2)	75-125	5	20	6,430	6,210	3	20
Manganese	-167 (2)	-131 (2)	75-125	6	20	350	356	2	20
Phosphorus	77	89	75-125	5	20	190	209	9	20
Potassium	118	110	75-125	1	20	2,650	2,690	2	20
Sodium	100	99	75-125	2	20	219	211	4 (1)	20
Strontium	102	93	75-115	4	20	52.0	52.4	1	20
Tin	84	84	80-110	3	20	2.40 J	2.16 J	10 (1)	20
Titanium	163 (2)	138 (2)	75-125	1	20	1,210	1,190	2	20
Zirconium	95	96	75-125	3	20	4.30 J	5.09	17 (1)	20
Batch number: 110755711002	Sample number(s): 6228975-6228985 UNSPK: 6228978 BKG: 6228978								
Mercury	108	103	65-135	7	20	0.0071 J	0.0110 J	43* (1)	20
Batch number: 11074243201A	Sample number(s): 6228975-6228979,6228981-6228985 UNSPK: 6228978 BKG: 6228978								
3a Cr VI by EPA 7199	89		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11076076201A	Sample number(s): 6228975-6228977 UNSPK: P224306 BKG: P224306								
7a Perchlorate EPA 314.0	115		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11076076201B	Sample number(s): 6228978-6228979,6228981-6228985 UNSPK: 6228978 BKG: 6228978								
7a Perchlorate EPA 314.0	108		80-120			9.0 U	9.0 U	0 (1)	15

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11076495201A	Sample number(s): 6228975-6228979,6228981-6228985 UNSPK: 6228978 BKG: 6228978								
11a Anions by 300.0 - Fluoride	72*		80-120			5.1	5.1	0	20
11a Anions by 300.0 - Nitrate	98		80-120			1.7	1.5	13 (1)	20
Batch number: 11081102201A	Sample number(s): 6228975-6228979,6228981-6228983 UNSPK: 6228978 BKG: 6228978								
17a Cyanide by 9012B	115		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11082102201A	Sample number(s): 6228984-6228985 UNSPK: 6228984 BKG: 6228984								
17a Cyanide by 9012B	104		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11074039401A	Sample number(s): 6228975-6228977 BKG: P225085								
18a pH by 9045C						6.66	6.66	0	1
Batch number: 11074039401B	Sample number(s): 6228978,6228981-6228985 BKG: 6228978								
18a pH by 9045C						8.06	8.06	0	1
Batch number: 11074182101A	Sample number(s): 6228975-6228977 BKG: P225085								
32a OR Potential						382	385	1	6
Batch number: 11074182101B	Sample number(s): 6228978,6228981-6228985 BKG: 6228978								
32a OR Potential						328	328	0	6
Batch number: 11083162401A	Sample number(s): 6228975-6228985 BKG: 6228978								
28a Moisture Content by 160.3						22.8	22.9	1	20
Moisture Content by 160.3						22.8	22.9	1	20
Moisture Content by 160.3						22.8	22.9	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110741AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6228975	97	93	101	93
6228976	97	97	101	94
6228977	98	98	100	94
6228978	98	102	97	95
6228979	99	103	101	101
6228980	96	93	101	98
6228982	96	97	98	94
6228983	97	98	98	93
6228984	97	96	98	93
6228985	97	99	98	93
Blank	98	101	99	94
LCS	99	100	102	98
MS	99	103	101	101

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Surrogate Quality Control

MSD	96	93	101	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110731AA

	Toluene-d8
6228986	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110741AA

	Toluene-d8
6228975	98
6228976	96
6228977	95
6228978	96
6228979	95
6228980	96
6228982	95
6228983	96
6228984	95
6228985	98
Blank	95
LCS	95
LCSD	99
MS	95
MSD	96
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110741AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6228986	104	100	102	97
Blank	103	99	101	97
LCS	103	102	101	98
LCSD	103	102	101	98
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11076SLI026

	N-Nitrosodimethylamine-d6
6228975	97
6228976	104
6228977	102
6228978	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Surrogate Quality Control

6228979	104
6228980	100
6228982	101
6228983	103
6228984	102
6228985	101
Blank	94
LCS	90
MS	104
MSD	100
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11076SLK026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6228975	93	52	91
6228976	93	56	79
6228977	86	81	91
6228978	76	72	84
6228979	98	88	90
6228980	97	85	89
6228982	94	90	86
6228983	84	82	81
6228984	93	88	88
6228985	91	87	87
Blank	87	85	90
LCS	91	86	89
MS	98	88	90
MSD	97	85	89
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11082SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6228975	73	77	79	63	77	85
6228976	78	85	84	70	91	90
6228977	73	77	83	64	85	84
6228978	72	77	79	64	82	84
6228979	77	83	85	71	89	84
6228980	80	85	88	72	91	87
6228982	78	84	85	69	87	89
6228983	77	83	85	69	91	89
6228984	78	84	86	67	88	94
6228985	81	86	86	68	88	93
Blank	76	83	87	71	92	89
LCS	82	85	91	72	91	87
MS	77	83	85	71	89	84
MSD	80	85	88	72	91	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11073A34A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Surrogate Quality Control

	Trifluorotoluene-F
6228975	71
6228976	80
6228977	77
6228978	73
6228979	76
6228980	74
6228982	74
6228983	70
6228984	71
6228985	81
Blank	82
LCS	86
MS	76
MSD	74
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11075B20A

	Trifluorotoluene-F
6228986	78
Blank	78
LCS	100
LCSD	101
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110730008A

	Butyraldehyde
6228975	100
6228976	93
6228977	102
6228978	103
6228979	98
6228980	93
6228982	96
6228983	84
6228984	91
6228985	92
Blank	101
LCS	102
MS	98
MSD	93
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 110750002A

	2-Nitro-m-xylene
6228975	115
6228976	108

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Surrogate Quality Control

6228977	117
6228978	106
6228979	114
6228980	114
6228982	111
6228983	108
6228984	110
6228985	108
Blank	114
LCS	121
LCSD	117
MS	114
MSD	114
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110750014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6228975	77	80
6228976	85	72
6228977	88	84
6228978	91	83
6228979	89	78
6228980	97	89
6228982	77	78
6228983	100	84
6228984	91	85
6228985	96	81
Blank	94	74
LCS	96	90
LCSD	95	92
MS	89	78
MSD	97	89
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110730007A

	Tetramethylene glycol
6228975	62
6228976	65
6228977	66
6228978	63
6228979	83
6228980	78
6228982	61
6228983	66
6228984	68
6228985	46
Blank	99
LCS	98
MS	83
MSD	78
Limits:	29-137

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Surrogate Quality Control

Analysis Name: 19a Alcohols by 8015B
Batch number: 110750026A

	Acetone
6228975	86
6228976	93
6228977	90
6228978	87
6228979	85
6228980	83
6228982	83
6228983	91
6228984	91
6228985	88
Blank	108
LCS	106
MS	85
MSD	83
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110760020A

	Chlorobenzene	Orthoterphenyl
6228976	81	83
Blank	81	92
LCS	93	96
MS	77	90
MSD	75	88
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110760037A

	n-Triacontane-d62
6228975	64
6228976	73
6228977	67
6228978	63
6228979	65
6228980	79
6228982	63
6228983	67
6228984	70
6228985	66
Blank	65
LCS	65
MS	65
MSD	79
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110810023A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Surrogate Quality Control

	Chlorobenzene	Orthoterphenyl
6228975	91	107
6228977	92	107
6228978	91	112
6228979	83	106
6228980	89	114
6228982	93	111
6228983	96	112
6228984	126*	117
6228985	88	109
Blank	97	110
LCS	95	115
MS	83	106
MSD	89	114
Limits:	37-125	47-145

*- Outside of specification
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A# 13243 G# K375077 Sample# 6227112 Bo

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SM7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	FIELD DUP
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	5-Encores									X	X	X											FIELD DUP
SL-112-SA5A-SB-8.5-9.5	03.11.11	1206	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-9.0	03.11.11	1203	SOIL	NONE	5-Encores									X	X	X											
SL-112-SA5A-SB-14.0-15.0	03.11.11	1216	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-14.5	03.11.11	1212	SOIL	NONE	5-Encores									X	X	X											
SL-114-SA5A-SB-4.0-5.MS	03.11.11	0834	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-114-SA5A-SB-4.5MS	03.11.11	0830	SOIL	NONE	15-Encores									X	X	X											MS/MSD
SL-114-SA5A-SB-9.0-10.0	03.11.11	0843	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-114-SA5A-SB-9.5	03.11.11	0840	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-9.0-10.0	03.11.11	1529	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-9.5	03.11.11	1525	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-14.0-15.0	03.11.11	1539	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-14.5	03.11.11	1533	SOIL	NONE	5-Encores									X	X	X											
SL-227-SA5B-SB-2.5-3.5	03.11.11	1410	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-227-SA5B-SB-3.0	03.11.11	1406	SOIL	NONE	5-Encores									X	X	X											
TB-031111	03.11.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Amended (CDC)

Relinquished by: (*Signature*)	**Date/Time**	**Received for Laboratory by: (*Signature*)**	**Laboratory:**
	03/11/2011 / 17:00		**Lancaster Laboratories, Inc.**
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1432 5430, ...5420	

acct#13013 Ap#1237087 Sample# 6323975-86

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: [signature] - courier

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/SW7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PETs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	FIELD DUP
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	5-Encores									X	X	X											FIELD DUP
SL-112-SA5A-SB-8.5-9.5	03.11.11	1206	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-9.0	03.11.11	1203	SOIL	NONE	5-Encores									X	X	X											
SL-112-SA5A-SB-14.0-15.0	03.11.11	1216	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-14.5	03.11.11	1212	SOIL	NONE	5-Encores									X	X	X											
SL-114-SA5A-SB-4.0-5.MS	03.11.11	0834	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-114-SA5A-SB-4.5MS	03.11.11	0830	SOIL	NONE	15-Encores									X	X	X											MS/MSD
SL-114-SA5A-SB-9.0-10.0	03.11.11	0843	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-114-SA5A-SB-9.5	03.11.11	0840	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-9.0-10.0	03.11.11	1529	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-9.5	03.11.11	1525	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-14.0-15.0	03.11.11	1539	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-14.0-14.5	03.11.11	1533	SOIL	NONE	5-Encores									X	X	X											
SL-227-SA5B-SB-2.5-3.5	03.11.11	1410	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-227-SA5B-SB-3.0	03.11.11	1406	SOIL	NONE	5-Encores									X	X	X											
TB-031111	03.11.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (*Signature*) [signature] — Date/Time: 03/11/2011 / 17:00

Received by: (*Signature*) — Date/Time

Received for Laboratory by: (*Signature*) Tammy Heberl 3/12/11 0950

Airbill No.(s): 8695 1432 5430, ...5420

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/12/2011
Group Number: 1237088
SDG: DX062
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP09-SA5A-QC-031111 Soil	6228987
SL-112-SA5A-SB-8.5-9.5 Soil	6228988
SL-112-SA5A-SB-14.0-15.0 Soil	6228989
SL-114-SA5A-SB-4.0-5.0 Soil	6228990
SL-114-SA5A-SB-4.0-5.0MS Soil	6228991
SL-114-SA5A-SB-4.0-5.0MSD Soil	6228992
SL-114-SA5A-SB-9.0-10.0 Soil	6228993
SL-113-SA5A-SB-9.0-10.0 Soil	6228994
SL-113-SA5A-SB-14.0-15.0 Soil	6228995
SL-227-SA5B-SB-2.5-3.5 Soil	6228996

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228987
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6205 SDG#: DX062-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228987
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6205 SDG#: DX062-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0380	JQ	0.0255	1.22	1
11031	12378-PeCDD	40321-76-4	0.0703	JBQ	0.0236	6.08	1
11031	123478-HxCDD	39227-28-6	0.0675	JQ	0.0247	6.08	1
11031	123678-HxCDD	57653-85-7	0.0969	JB	0.0259	6.08	1
11031	123789-HxCDD	19408-74-3	0.151	JB	0.0261	6.08	1
11031	1234678-HpCDD	35822-46-9	0.701	JB	0.0289	6.08	1
11031	OCDD	3268-87-9	2.68	JB	0.0294	12.2	1
11031	2378-TCDF	51207-31-9	0.0354	JBQ	0.0237	1.22	1
11031	12378-PeCDF	57117-41-6	0.116	JBQ	0.0146	6.08	1
11031	23478-PeCDF	57117-31-4	0.190	JBQ	0.0142	6.08	1
11031	123478-HxCDF	70648-26-9	0.158	JB	0.0271	6.08	1
11031	123678-HxCDF	57117-44-9	0.171	JBQ	0.0239	6.08	1
11031	123789-HxCDF	72918-21-9	0.160	JBQ	0.0258	6.08	1
11031	234678-HxCDF	60851-34-5	0.291	JB	0.0244	6.08	1
11031	1234678-HpCDF	67562-39-4	0.857	JB	0.0169	6.08	1
11031	1234789-HpCDF	55673-89-7	0.134	JB	0.0213	6.08	1
11031	OCDF	39001-02-0	0.592	JB	0.0299	12.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228987
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6205 SDG#: DX062-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228987
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6205 SDG#: DX062-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/01/2011 21:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228988
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6206 SDG#: DX062-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228988
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6206 SDG#: DX062-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0289	U	0.0289	1.11	1
11031	12378-PeCDD	40321-76-4	0.0254	U	0.0254	5.54	1
11031	123478-HxCDD	39227-28-6	0.0592	JQ	0.0303	5.54	1
11031	123678-HxCDD	57653-85-7	0.145	JBQ	0.0314	5.54	1
11031	123789-HxCDD	19408-74-3	0.164	JBQ	0.0313	5.54	1
11031	1234678-HpCDD	35822-46-9	3.96	JB	0.0360	5.54	1
11031	OCDD	3268-87-9	41.5	B	0.0313	11.1	1
11031	2378-TCDF	51207-31-9	0.0296	U	0.0296	1.11	1
11031	12378-PeCDF	57117-41-6	0.182	JBQ	0.0198	5.54	1
11031	23478-PeCDF	57117-31-4	0.261	JB	0.0186	5.54	1
11031	123478-HxCDF	70648-26-9	0.178	JBQ	0.0274	5.54	1
11031	123678-HxCDF	57117-44-9	0.137	JB	0.0254	5.54	1
11031	123789-HxCDF	72918-21-9	0.112	JB	0.0282	5.54	1
11031	234678-HxCDF	60851-34-5	0.261	JB	0.0262	5.54	1
11031	1234678-HpCDF	67562-39-4	0.927	JB	0.0174	5.54	1
11031	1234789-HpCDF	55673-89-7	0.109	JB	0.0202	5.54	1
11031	OCDF	39001-02-0	1.19	JB	0.0277	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228988
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6206 SDG#: DX062-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228988
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6206 SDG#: DX062-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/01/2011 22:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228989
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6207 SDG#: DX062-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228989
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6207 SDG#: DX062-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0288	J	0.0237	1.13	1
11031	12378-PeCDD	40321-76-4	0.0371	JB	0.0241	5.64	1
11031	123478-HxCDD	39227-28-6	0.0255	U	0.0255	5.64	1
11031	123678-HxCDD	57653-85-7	0.0957	JBQ	0.0247	5.64	1
11031	123789-HxCDD	19408-74-3	0.0720	JBQ	0.0207	5.64	1
11031	1234678-HpCDD	35822-46-9	0.871	JB	0.0337	5.64	1
11031	OCDD	3268-87-9	7.18	JB	0.0312	11.3	1
11031	2378-TCDF	51207-31-9	0.0231	U	0.0231	1.13	1
11031	12378-PeCDF	57117-41-6	0.0711	JBQ	0.0140	5.64	1
11031	23478-PeCDF	57117-31-4	0.125	JBQ	0.0158	5.64	1
11031	123478-HxCDF	70648-26-9	0.121	JB	0.0271	5.64	1
11031	123678-HxCDF	57117-44-9	0.0824	JB	0.0238	5.64	1
11031	123789-HxCDF	72918-21-9	0.0201	U	0.0201	5.64	1
11031	234678-HxCDF	60851-34-5	0.172	JBQ	0.0202	5.64	1
11031	1234678-HpCDF	67562-39-4	0.647	JB	0.0185	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0946	JB	0.0183	5.64	1
11031	OCDF	39001-02-0	0.500	JB	0.0301	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228989
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6207 SDG#: DX062-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228989
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6207 SDG#: DX062-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/01/2011 23:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228990
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	22.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228990
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0178 JQ	0.0154	1.30	1
11031	12378-PeCDD	40321-76-4	0.0233 JQ	0.0183	6.48	1
11031	123478-HxCDD	39227-28-6	0.0155 U	0.0155	6.48	1
11031	123678-HxCDD	57653-85-7	0.0149 U	0.0149	6.48	1
11031	123789-HxCDD	19408-74-3	0.0505 JBQ	0.0115	6.48	1
11031	1234678-HpCDD	35822-46-9	0.375 JB	0.0245	6.48	1
11031	OCDD	3268-87-9	2.23 JB	0.0304	13.0	1
11031	2378-TCDF	51207-31-9	0.0124 U	0.0124	1.30	1
11031	12378-PeCDF	57117-41-6	0.0216 JB	0.00764	6.48	1
11031	23478-PeCDF	57117-31-4	0.0453 JB	0.00751	6.48	1
11031	123478-HxCDF	70648-26-9	0.0190 U	0.0190	6.48	1
11031	123678-HxCDF	57117-44-9	0.0192 JBQ	0.0132	6.48	1
11031	123789-HxCDF	72918-21-9	0.00777 U	0.00777	6.48	1
11031	234678-HxCDF	60851-34-5	0.0249 JB	0.00738	6.48	1
11031	1234678-HpCDF	67562-39-4	0.0700 JB	0.0142	6.48	1
11031	1234789-HpCDF	55673-89-7	0.0217 JBQ	0.00984	6.48	1
11031	OCDF	39001-02-0	0.134 JB	0.0215	13.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	49	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228990
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228990
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11080001	03/24/2011 04:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11080001	03/21/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228991
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	22.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228991
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	28.1		0.0259	1.30	1
11031	12378-PeCDD	40321-76-4	144		0.0311	6.48	1
11031	123478-HxCDD	39227-28-6	142		0.0733	6.48	1
11031	123678-HxCDD	57653-85-7	140	B	0.0687	6.48	1
11031	123789-HxCDD	19408-74-3	139	B	0.0595	6.48	1
11031	1234678-HpCDD	35822-46-9	138	B	0.0635	6.48	1
11031	OCDD	3268-87-9	293	B	0.0503	13.0	1
11031	2378-TCDF	51207-31-9	29.8		0.0295	1.30	1
11031	12378-PeCDF	57117-41-6	138	B	0.0278	6.48	1
11031	23478-PeCDF	57117-31-4	137	B	0.0280	6.48	1
11031	123478-HxCDF	70648-26-9	137		0.0693	6.48	1
11031	123678-HxCDF	57117-44-9	135	B	0.0504	6.48	1
11031	123789-HxCDF	72918-21-9	132	B	0.0385	6.48	1
11031	234678-HxCDF	60851-34-5	137	B	0.0370	6.48	1
11031	1234678-HpCDF	67562-39-4	134	B	0.0580	6.48	1
11031	1234789-HpCDF	55673-89-7	134	B	0.0505	6.48	1
11031	OCDF	39001-02-0	266	B	0.0522	13.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228991
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228991
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11080001	03/24/2011 05:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11080001	03/21/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228992
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	22.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228992
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	28.1		0.0271	1.30	1
11031	12378-PeCDD	40321-76-4	143		0.0333	6.48	1
11031	123478-HxCDD	39227-28-6	141		0.0870	6.48	1
11031	123678-HxCDD	57653-85-7	141	B	0.0766	6.48	1
11031	123789-HxCDD	19408-74-3	137	B	0.0575	6.48	1
11031	1234678-HpCDD	35822-46-9	137	B	0.0668	6.48	1
11031	OCDD	3268-87-9	274	B	0.0532	13.0	1
11031	2378-TCDF	51207-31-9	29.4		0.0244	1.30	1
11031	12378-PeCDF	57117-41-6	138	B	0.0214	6.48	1
11031	23478-PeCDF	57117-31-4	137	B	0.0222	6.48	1
11031	123478-HxCDF	70648-26-9	137		0.133	6.48	1
11031	123678-HxCDF	57117-44-9	135	B	0.0927	6.48	1
11031	123789-HxCDF	72918-21-9	134	B	0.0479	6.48	1
11031	234678-HxCDF	60851-34-5	136	B	0.0461	6.48	1
11031	1234678-HpCDF	67562-39-4	134	B	0.0970	6.48	1
11031	1234789-HpCDF	55673-89-7	133	B	0.0554	6.48	1
11031	OCDF	39001-02-0	265	B	0.0551	13.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	58	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	42	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	41	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228992
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228992
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11080001	03/24/2011 06:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11080001	03/21/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228993
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6209 SDG#: DX062-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	20.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228993
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6209 SDG#: DX062-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0420	JQ	0.0298	1.26	1
11031	12378-PeCDD	40321-76-4	0.0258	U	0.0258	6.31	1
11031	123478-HxCDD	39227-28-6	0.0294	J	0.0288	6.31	1
11031	123678-HxCDD	57653-85-7	0.101	JB	0.0290	6.31	1
11031	123789-HxCDD	19408-74-3	0.0795	JB	0.0299	6.31	1
11031	1234678-HpCDD	35822-46-9	5.09	JB	0.0376	6.31	1
11031	OCDD	3268-87-9	56.4	B	0.0394	12.6	1
11031	2378-TCDF	51207-31-9	0.0413	JB	0.0287	1.26	1
11031	12378-PeCDF	57117-41-6	0.0431	JBQ	0.0163	6.31	1
11031	23478-PeCDF	57117-31-4	0.192	JB	0.0173	6.31	1
11031	123478-HxCDF	70648-26-9	0.176	JB	0.0290	6.31	1
11031	123678-HxCDF	57117-44-9	0.138	JB	0.0251	6.31	1
11031	123789-HxCDF	72918-21-9	0.0974	JB	0.0303	6.31	1
11031	234678-HxCDF	60851-34-5	0.349	JB	0.0256	6.31	1
11031	1234678-HpCDF	67562-39-4	1.04	JB	0.0170	6.31	1
11031	1234789-HpCDF	55673-89-7	0.134	JB	0.0230	6.31	1
11031	OCDF	39001-02-0	0.840	JB	0.0360	12.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228993
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6209 SDG#: DX062-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228993
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6209 SDG#: DX062-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 00:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-113-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228994
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6210 SDG#: DX062-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-113-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228994
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6210 SDG#: DX062-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0596	JQ	0.0440	1.13	1
11031	12378-PeCDD	40321-76-4	0.0616	JBQ	0.0392	5.64	1
11031	123478-HxCDD	39227-28-6	0.0976	JQ	0.0365	5.64	1
11031	123678-HxCDD	57653-85-7	0.0366	U	0.0366	5.64	1
11031	123789-HxCDD	19408-74-3	0.133	JBQ	0.0355	5.64	1
11031	1234678-HpCDD	35822-46-9	4.47	JB	0.0534	5.64	1
11031	OCDD	3268-87-9	50.5	B	0.0564	11.3	1
11031	2378-TCDF	51207-31-9	0.0466	U	0.0466	1.13	1
11031	12378-PeCDF	57117-41-6	0.171	JBQ	0.0249	5.64	1
11031	23478-PeCDF	57117-31-4	0.255	JB	0.0268	5.64	1
11031	123478-HxCDF	70648-26-9	0.302	JB	0.0478	5.64	1
11031	123678-HxCDF	57117-44-9	0.158	JB	0.0368	5.64	1
11031	123789-HxCDF	72918-21-9	0.147	JBQ	0.0366	5.64	1
11031	234678-HxCDF	60851-34-5	0.332	JBQ	0.0310	5.64	1
11031	1234678-HpCDF	67562-39-4	1.20	JB	0.0272	5.64	1
11031	1234789-HpCDF	55673-89-7	0.160	JB	0.0311	5.64	1
11031	OCDF	39001-02-0	2.09	JB	0.0496	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228994
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6210 SDG#: DX062-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-113-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228994
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6210 SDG#: DX062-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 01:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228995
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6211 SDG#: DX062-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228995
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6211 SDG#: DX062-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0573	U	0.0573	1.09	1
11031	12378-PeCDD	40321-76-4	0.0448	U	0.0448	5.45	1
11031	123478-HxCDD	39227-28-6	0.0345	U	0.0345	5.45	1
11031	123678-HxCDD	57653-85-7	0.0653	JBQ	0.0336	5.45	1
11031	123789-HxCDD	19408-74-3	0.0558	JBQ	0.0324	5.45	1
11031	1234678-HpCDD	35822-46-9	0.669	JB	0.0430	5.45	1
11031	OCDD	3268-87-9	4.07	JB	0.0397	10.9	1
11031	2378-TCDF	51207-31-9	0.0450	U	0.0450	1.09	1
11031	12378-PeCDF	57117-41-6	0.0616	JBQ	0.0252	5.45	1
11031	23478-PeCDF	57117-31-4	0.206	JB	0.0244	5.45	1
11031	123478-HxCDF	70648-26-9	0.194	JB	0.0486	5.45	1
11031	123678-HxCDF	57117-44-9	0.170	JBQ	0.0383	5.45	1
11031	123789-HxCDF	72918-21-9	0.0927	JB	0.0364	5.45	1
11031	234678-HxCDF	60851-34-5	0.315	JB	0.0329	5.45	1
11031	1234678-HpCDF	67562-39-4	1.15	JB	0.0291	5.45	1
11031	1234789-HpCDF	55673-89-7	0.163	JB	0.0288	5.45	1
11031	OCDF	39001-02-0	0.643	JBQ	0.0490	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	84	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228995
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6211 SDG#: DX062-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228995
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6211 SDG#: DX062-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 02:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228996
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6212 SDG#: DX062-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228996
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6212 SDG#: DX062-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0380	J	0.0210	1.14	1
11031	12378-PeCDD	40321-76-4	0.114	JQ	0.0450	5.70	1
11031	123478-HxCDD	39227-28-6	0.0509	U	0.0509	5.70	1
11031	123678-HxCDD	57653-85-7	0.360	JB	0.0468	5.70	1
11031	123789-HxCDD	19408-74-3	0.427	JB	0.0360	5.70	1
11031	1234678-HpCDD	35822-46-9	4.73	JB	0.0470	5.70	1
11031	OCDD	3268-87-9	94.6	B	0.0353	11.4	1
11031	2378-TCDF	51207-31-9	0.0970	J	0.0217	1.14	1
11031	12378-PeCDF	57117-41-6	0.151	JB	0.0130	5.70	1
11031	23478-PeCDF	57117-31-4	0.220	JB	0.0137	5.70	1
11031	123478-HxCDF	70648-26-9	0.309	J	0.0496	5.70	1
11031	123678-HxCDF	57117-44-9	0.122	JB	0.0334	5.70	1
11031	123789-HxCDF	72918-21-9	0.257	JB	0.0176	5.70	1
11031	234678-HxCDF	60851-34-5	0.0841	JB	0.0161	5.70	1
11031	1234678-HpCDF	67562-39-4	0.482	JB	0.0295	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0917	JB	0.0194	5.70	1
11031	OCDF	39001-02-0	1.12	JB	0.0277	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228996
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6212 SDG#: DX062-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

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Chantilly VA 20151

X6212 SDG#: DX062-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11080001	03/24/2011 15:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11080001	03/21/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237088
Reported: 04/06/11 at 10:10 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11083162401A	Sample number(s): 6228987-6228996								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11080001	Sample number(s): 6228990-6228992,6228996								
2378-TCDD	0.0125 U	0.0125	1.00	ng/kg	108		67-158		
12378-PeCDD	0.0122 U	0.0122	5.00	ng/kg	113		70-142		
123478-HxCDD	0.0100 U	0.0100	5.00	ng/kg	111		70-164		
123678-HxCDD	0.0113 J	0.00930	5.00	ng/kg	110		76-134		
123789-HxCDD	0.0158 J	0.00750	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.177 J	0.0140	5.00	ng/kg	107		70-140		
OCDD	0.337 J	0.0154	10.0	ng/kg	107		78-144		
2378-TCDF	0.0101 U	0.0101	1.00	ng/kg	118		75-158		
12378-PeCDF	0.0215 J	0.00510	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0446 J	0.00540	5.00	ng/kg	107		68-160		
123478-HxCDF	0.0153 U	0.0153	5.00	ng/kg	108		72-134		
123678-HxCDF	0.0248 J	0.0100	5.00	ng/kg	105		84-130		
123789-HxCDF	0.0173 J	0.00620	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0230 J	0.00560	5.00	ng/kg	107		70-156		
1234678-HpCDF	0.0538 J	0.0102	5.00	ng/kg	105		82-122		
1234789-HpCDF	0.0217 J	0.00770	5.00	ng/kg	105		78-138		
OCDF	0.0956 J	0.0184	10.0	ng/kg	104		63-170		
Batch number: 11090001	Sample number(s): 6228987-6228989,6228993-6228995								
2378-TCDD	0.0299 U	0.0299	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0588 J	0.0279	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0229 U	0.0229	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0329 J	0.0229	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0392 J	0.0224	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.351 J	0.0348	5.00	ng/kg	90		70-140		
OCDD	0.634 J	0.0353	10.0	ng/kg	91		78-144		
2378-TCDF	0.0440 J	0.0269	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0506 J	0.0165	5.00	ng/kg	92		80-134		
23478-PeCDF	0.169 J	0.0160	5.00	ng/kg	92		68-160		
123478-HxCDF	0.135 J	0.0277	5.00	ng/kg	93		72-134		
123678-HxCDF	0.119 J	0.0219	5.00	ng/kg	94		84-130		
123789-HxCDF	0.116 J	0.0240	5.00	ng/kg	93		78-130		
234678-HxCDF	0.255 J	0.0209	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.742 J	0.0173	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.112 J	0.0206	5.00	ng/kg	91		78-138		
OCDF	0.496 J	0.0336	10.0	ng/kg	93		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237088
Reported: 04/06/11 at 10:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11083162401A	Sample number(s): 6228987-6228996					BKG: P228978			
Moisture Content by 160.3						22.8	22.9	1	20
Batch number: 11080001	Sample number(s): 6228990-6228992,6228996 UNSPK: 6228990								
2378-TCDD	109	108	67-158	0	25				
12378-PeCDD	111	110	70-142	1	25				
123478-HxCDD	109	109	70-164	0	25				
123678-HxCDD	108	108	76-134	1	25				
123789-HxCDD	107	106	64-162	1	25				
1234678-HpCDD	107	106	70-140	1	25				
OCDD	112	105	78-144	7	25				
2378-TCDF	115	114	75-158	1	25				
12378-PeCDF	107	107	80-134	0	25				
23478-PeCDF	106	106	68-160	0	25				
123478-HxCDF	106	106	72-134	0	25				
123678-HxCDF	104	105	84-130	0	25				
123789-HxCDF	102	103	78-130	1	25				
234678-HxCDF	105	105	70-156	0	25				
1234678-HpCDF	103	103	82-122	0	25				
1234789-HpCDF	103	103	78-138	0	25				
OCDF	103	102	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11080001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6228990	84	89	34	49	86	91
6228991	88	90	46	64	88	91
6228992	84	82	29	42	86	87
6228996	77	81	28	41	81	82
Blank	87	85	33	49	87	88
MS	88	90	46	64	88	91
MSD	84	82	29	42	86	87
OPR	84	89	37	53	85	87
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6228990	49	80	69	89	89	68
6228991	64	82	73	91	88	73
6228992	41	77	64	83	86	58
6228996	42	72	62	84	79	59

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237088
Reported: 04/06/11 at 10:10 PM

Surrogate Quality Control

Blank	51	79	69	89	86	67
MS	64	82	73	91	88	73
MSD	41	77	64	83	86	58
OPR	57	79	71	87	91	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6228990	76	88	83	81	89	93
6228991	81	90	85	85	89	95
6228992	70	88	78	78	87	93
6228996	68	82	77	77	83	91
Blank	78	90	86	87	85	96
MS	81	90	85	85	89	95
MSD	70	88	78	78	87	93
OPR	81	88	84	85	83	92
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11090001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6228987	80	93	80	91	86	88
6228988	73	81	83	87	83	85
6228989	70	72	61	68	77	83
6228993	71	80	72	84	77	74
6228994	76	84	56	73	82	77
6228995	77	95	64	80	91	91
Blank	77	82	66	81	83	82
OPR	73	73	49	65	76	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6228987	84	74	66	89	86	79
6228988	78	76	69	78	78	77
6228989	64	70	60	69	78	65
6228993	80	65	58	83	78	76
6228994	74	72	68	84	83	73
6228995	79	87	84	84	92	80
Blank	79	74	68	100	78	75
OPR	62	66	59	85	76	65
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6228987	80	78	70	65	87	99
6228988	78	76	69	68	81	80
6228989	68	77	64	59	77	89
6228993	74	73	63	58	79	92
6228994	76	77	72	71	81	97
6228995	84	86	82	81	90	103

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237088
Reported: 04/06/11 at 10:10 PM

Surrogate Quality Control

Blank	77	78	70	67	79	87
OPR	69	73	65	62	76	83
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1231088 Sample# 6209957-96

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	FIELD DUP
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	5-Encores									X	X	X											FIELD DUP
SL-112-SA5A-SB-8.5-9.5	03.11.11	1206	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-9.0	03.11.11	1203	SOIL	NONE	5-Encores									X	X	X											
SL-112-SA5A-SB-14.0-15.0	03.11.11	1216	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-14.5	03.11.11	1212	SOIL	NONE	5-Encores									X	X	X											
SL-114-SA5A-SB-4.0-5.MS	03.11.11	0834	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-114-SA5A-SB-4.5MS	03.11.11	0830	SOIL	NONE	15-Encores									X	X	X											MS/MSD
SL-114-SA5A-SB-9.0-10.0	03.11.11	0843	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-114-SA5A-SB-9.5	03.11.11	0840	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-9.0-10.0	03.11.11	1529	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-9.5	03.11.11	1525	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-14.0-15.0	03.11.11	1539	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-14.0-14.5 MS	03.11.11	1533	SOIL	NONE	5-Encores									X	X	X											
SL-227-SA5B-SB-2.5-3.5	03.11.11	1410	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-227-SA5B-SB-3.0	03.11.11	1406	SOIL	NONE	5-Encores									X	X	X											
TB-031111	03.11.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/11/2011 / 17:00 — Received for Laboratory by: (*Signature*) Tammy Helm 3/12/11 0950

Received by: (*Signature*) — Date/Time — Airbill No.(s) 8695 1432 5430, ...5420

Laboratory: Lancaster Laboratories, Inc.

-> SL-113-SA5A-SB-14.5 was updated per AMC NLM 3/10/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/14/2011
Group Number: 1237126
SDG: DE103
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-115-SA5A-SB-6.5-7.5 Soil	6229290
SL-115-SA5A-SB-13.0-14.0 Soil	6229291
SL-116-SA5A-SB-6.0-7.0 Soil	6229292
SL-116-SA5A-SB-14.0-15.0 Soil	6229293
TB-031011 Water	6229294

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-115-SA5A-SB-6.5-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229290
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0201 SDG#: DE103-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.6		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.87
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.87
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.87
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.87
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.87
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.87
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.87
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.87
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.87
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.87
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.87
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.87
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.87
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.87
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.87
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.87
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.87
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.87
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.87
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.87
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.87
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.87
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.87
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.87
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.87
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.87
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.87
06192	Methylene Chloride	75-09-2	1.5	J	0.23	3.8		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.87

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SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229290
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0201 SDG#: DE103-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.87
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.87
06192	Toluene	108-88-3	0.11	J	0.08	3.8		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.87
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.87
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.87
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.87
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		20.46
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	184	U	184	368		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1

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SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229290
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E0201 SDG#: DE103-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.2		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.6		0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.9		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.1		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.5		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	2.8		0.74	1.8		1

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SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229290
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E0201 SDG#: DE103-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	2.6		0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.04
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

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Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.64	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.85	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	26		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	54		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.8	U	8.8	14		1
08283	Ethylene glycol	107-21-1	6.6	U	6.6	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	Due to interfering peaks on the chromatogram, the value reported for ethylene glycol and diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-115-SA5A-SB-6.5-7.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229290
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0201 SDG#: DE103-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		5.40	21.5		1
07914	Boron	7440-42-8	3.91	J	0.955	5.36		1
01650	Calcium	7440-70-2	3,210		6.58	21.5		1
01654	Iron	7439-89-6	17,600		5.05	21.5		1
01656	Lithium	7439-93-2	22.1		0.24	2.1		1
01657	Magnesium	7439-95-4	3,900		2.72	10.7		1
06958	Manganese	7439-96-5	264		0.0837	0.536		1
10145	Phosphorus	7723-14-0	366		0.601	10.7		1
01662	Potassium	7440-09-7	2,610		19.3	53.6		1
01667	Sodium	7440-23-5	123		40.0	107		1
07968	Strontium	7440-24-6	17.5		0.0665	0.536		1
06969	Tin	7440-31-5	2.65	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,040		0.408	1.07		1
10146	Zirconium	7440-67-7	1.91	J	0.901	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.254		0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.91		0.0850	0.425		2
06126	Barium	7440-39-3	101		0.115	0.425		2
06127	Beryllium	7440-41-7	0.502		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.159		0.0425	0.106		2
06131	Chromium	7440-47-3	25.3		0.127	0.425		2
06132	Cobalt	7440-48-4	6.25		0.0212	0.106		2
06133	Copper	7440-50-8	21.8		0.0701	0.425		2
06135	Lead	7439-92-1	7.75		0.0110	0.212		2
06138	Molybdenum	7439-98-7	5.44		0.0531	0.106		2
06139	Nickel	7440-02-0	18.9		0.106	0.425		2
06141	Selenium	7782-49-2	0.105	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0273	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.244		0.0319	0.106		2
06148	Vanadium	7440-62-2	37.4		0.0234	0.106		2
06149	Zinc	7440-66-6	73.4		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-115-SA5A-SB-6.5-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229290
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0201 SDG#: DE103-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	421		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.35		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-115-SA5A-SB-7.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011	19:31	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	16:24	Jason M Long	20.46
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107323871	03/14/2011	12:15	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107323871	03/14/2011	12:17	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107323871	03/14/2011	12:17	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107323871	03/14/2011	12:16	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011	04:25	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/26/2011	04:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011	14:16	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011	18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011	17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011	13:45	Olivia I Santiago	1

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Sample Description: **SL-115-SA5A-SB-6.5-7.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229290
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0201 SDG#: DE103-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/15/2011 00:19	Marie D John	21.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107323871	03/14/2011 12:15	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 13:05	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110750001A	03/19/2011 08:04	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110760008A	03/22/2011 03:30	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110760008A	03/17/2011 16:20	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110750001A	03/16/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110780015A	03/21/2011 16:11	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 21:20	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 21:23	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 11:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110780015A	03/21/2011 02:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:14	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:30	Choon Y Tian	2

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Sample Description: **SL-115-SA5A-SB-6.5-7.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229290
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0201 SDG#: DE103-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075495201B	03/18/2011 10:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11075495201B	03/18/2011 10:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/18/2011 01:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 18:20	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 09:46	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075495201B	03/17/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-115-SA5A-SB-13.0-14.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229291
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0202 SDG#: DE103-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.0	U	8.0	9.5		1.07
06192	Benzene	71-43-2	0.12	U	0.12	4.8		1.07
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.8		1.07
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.8		1.07
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.8		1.07
06192	Bromoform	75-25-2	0.48	U	0.48	4.8		1.07
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8		1.07
06192	2-Butanone	78-93-3	1.5	U	1.5	9.5		1.07
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8		1.07
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8		1.07
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8		1.07
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8		1.07
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8		1.07
06192	Chloroethane	75-00-3	0.16	U	0.16	4.8		1.07
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8		1.07
06192	Chloroform	67-66-3	0.14	U	0.14	4.8		1.07
06192	Chloromethane	74-87-3	0.39	U	0.39	4.8		1.07
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8		1.07
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8		1.07
06192	Chlorotrifluoroethene	79-38-9	0.59	U	0.59	5.9		1.07
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.83	U	0.83	4.8		1.07
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8		1.07
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.8		1.07
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8		1.07
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8		1.07
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8		1.07
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8		1.07
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8		1.07
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8		1.07
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8		1.07
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.8		1.07
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8		1.07
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8		1.07
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.8		1.07
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.8		1.07
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.8		1.07
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.8		1.07
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8		1.07
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.8		1.07
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.8		1.07
06192	Freon 113	76-13-1	0.13	U	0.13	4.8		1.07
06192	Freon 133a	75-88-7	0.59	U	0.59	5.9		1.07
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8		1.07
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.5		1.07
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8		1.07
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8		1.07
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8		1.07
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.5		1.07
06192	Methylene Chloride	75-09-2	1.7	J	0.29	4.8		1.07
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8		1.07

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Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229291
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0202 SDG#: DE103-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.8		1.07
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8		1.07
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.8		1.07
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8		1.07
06192	Toluene	108-88-3	0.12	J	0.09	4.8		1.07
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8		1.07
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.8		1.07
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8		1.07
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.8		1.07
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8		1.07
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.8		1.07
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.8		1.07
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8		1.07
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8		1.07
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8		1.07
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.8		1.07
06192	o-Xylene	95-47-6	0.20	U	0.20	4.8		1.07
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.69
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	186	U	186	372		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1

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Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229291
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0202 SDG#: DE103-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.79	J	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.97	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.64	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.77	J	0.74	1.9		1

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Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229291
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0202 SDG#: DE103-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.79	J	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.4
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1

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Sample Description: SL-115-SA5A-SB-13.0-14.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229291
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E0202 SDG#: DE103-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.3	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.97	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.5	U	4.5	13		10
10199	EFH (C15-C20)	n.a.	4.5	U	4.5	13		10
10199	EFH (C21-C30)	n.a.	51		4.5	13		10
10199	EFH (C30 - C40)	n.a.	140		4.5	13		10
10199	EFH (C8-C11)	n.a.	4.5	U	4.5	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

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Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229291
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0202 SDG#: DE103-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		5.50	21.9		1
07914	Boron	7440-42-8	6.07		0.974	5.47		1
01650	Calcium	7440-70-2	3,740		6.71	21.9		1
01654	Iron	7439-89-6	18,400		5.15	21.9		1
01656	Lithium	7439-93-2	24.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,330		2.78	10.9		1
06958	Manganese	7439-96-5	277		0.0853	0.547		1
10145	Phosphorus	7723-14-0	337		0.613	10.9		1
01662	Potassium	7440-09-7	2,810		19.7	54.7		1
01667	Sodium	7440-23-5	169		40.8	109		1
07968	Strontium	7440-24-6	16.4		0.0678	0.547		1
06969	Tin	7440-31-5	2.61	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,110		0.416	1.09		1
10146	Zirconium	7440-67-7	1.90	J	0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0758	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.80		0.0867	0.433		2
06126	Barium	7440-39-3	87.9		0.117	0.433		2
06127	Beryllium	7440-41-7	0.549		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.133		0.0433	0.108		2
06131	Chromium	7440-47-3	16.9		0.130	0.433		2
06132	Cobalt	7440-48-4	5.49		0.0217	0.108		2
06133	Copper	7440-50-8	7.84		0.0715	0.433		2
06135	Lead	7439-92-1	6.26		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.439		0.0542	0.108		2
06139	Nickel	7440-02-0	11.6		0.108	0.433		2
06141	Selenium	7782-49-2	0.0828	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0221	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.283		0.0325	0.108		2
06148	Vanadium	7440-62-2	36.1		0.0238	0.108		2
06149	Zinc	7440-66-6	84.2		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0109	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229291
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0202 SDG#: DE103-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	430		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.49		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-115-SA5A-SB-13.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011	19:53	Chelsea B Eastep	1.07
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	16:44	Jason M Long	22.69
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107323871	03/14/2011	12:08	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107323871	03/14/2011	12:17	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107323871	03/14/2011	12:17	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107323871	03/14/2011	12:09	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011	04:42	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/26/2011	04:27	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011	14:48	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011	18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011	17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011	13:45	Olivia I Santiago	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229291
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0202 SDG#: DE103-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/15/2011 00:56	Marie D John	21.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107323871	03/14/2011 12:08	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 13:48	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110750001A	03/19/2011 08:32	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110760008A	03/22/2011 03:48	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110760008A	03/17/2011 16:20	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110750001A	03/16/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110780015A	03/21/2011 20:07	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 21:35	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 21:36	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 08:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110780015A	03/21/2011 02:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:19	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:33	Choon Y Tian	2

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Sample Description: SL-115-SA5A-SB-13.0-14.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229291
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0202 SDG#: DE103-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075495201B	03/18/2011 11:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11075495201B	03/18/2011 11:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/18/2011 02:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 18:26	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 09:48	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075495201B	03/17/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-116-SA5A-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229292
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0203 SDG#: DE103-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		7.0	8.4		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.93
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.93
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.93
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.93
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.93
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.93
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.93
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.93
06192	Methylene Chloride	75-09-2	1.5	J	0.25	4.2		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.93

*=This limit was used in the evaluation of the final result
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Sample Description: SL-116-SA5A-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229292
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0203 SDG#: DE103-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.93
06192	Toluene	108-88-3	0.09	J	0.08	4.2		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.93
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.97
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	186	U	186	372		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1

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Sample Description: SL-116-SA5A-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229292
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0203 SDG#: DE103-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.58	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	9.7		0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	11		0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	15		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	4.8		0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	5.2		0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	11		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.4	J	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	14		0.74	1.9		1

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Sample Description: SL-116-SA5A-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229292
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0203 SDG#: DE103-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.1		0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Phenanthrene	85-01-8	1.9		0.74	1.9		1
10138	Pyrene	129-00-0	14		0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229292
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E0203 SDG#: DE103-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.78	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.89	U	0.89	2.7		2
10199	EFH (C15-C20)	n.a.	0.89	U	0.89	2.7		2
10199	EFH (C21-C30)	n.a.	23		0.89	2.7		2
10199	EFH (C30 - C40)	n.a.	58		0.89	2.7		2
10199	EFH (C8-C11)	n.a.	0.89	U	0.89	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-116-SA5A-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229292
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0203 SDG#: DE103-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		5.51	21.9		1
07914	Boron	7440-42-8	4.27	J	0.975	5.48		1
01650	Calcium	7440-70-2	3,320		6.71	21.9		1
01654	Iron	7439-89-6	19,000		5.16	21.9		1
01656	Lithium	7439-93-2	26.3		0.24	2.2		1
01657	Magnesium	7439-95-4	4,430		2.78	11.0		1
06958	Manganese	7439-96-5	272		0.0854	0.548		1
10145	Phosphorus	7723-14-0	337		0.613	11.0		1
01662	Potassium	7440-09-7	2,990		19.7	54.8		1
01667	Sodium	7440-23-5	111		40.9	110		1
07968	Strontium	7440-24-6	15.0		0.0679	0.548		1
06969	Tin	7440-31-5	2.71	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,140		0.416	1.10		1
10146	Zirconium	7440-67-7	1.26	J	0.920	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0949	J	0.0651	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.97		0.0868	0.434		2
06126	Barium	7440-39-3	83.1		0.117	0.434		2
06127	Beryllium	7440-41-7	0.559		0.0174	0.108		2
06128	Cadmium	7440-43-9	0.0956	J	0.0434	0.108		2
06131	Chromium	7440-47-3	16.6		0.130	0.434		2
06132	Cobalt	7440-48-4	5.48		0.0217	0.108		2
06133	Copper	7440-50-8	7.59		0.0716	0.434		2
06135	Lead	7439-92-1	5.64		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.530		0.0542	0.108		2
06139	Nickel	7440-02-0	11.7		0.108	0.434		2
06141	Selenium	7782-49-2	0.117	J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0250	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.272		0.0325	0.108		2
06148	Vanadium	7440-62-2	35.1		0.0239	0.108		2
06149	Zinc	7440-66-6	67.7		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.89	1.7		1

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Sample Description: **SL-116-SA5A-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229292
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E0203 SDG#: DE103-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	431		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.34		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-116-SA5A-SB-6.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 20:16	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011 17:04	Jason M Long	20.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107323871	03/14/2011 12:12	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107323871	03/14/2011 12:17	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107323871	03/14/2011 12:17	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107323871	03/14/2011 12:12	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 04:59	Timothy J Trees	10

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E0203 SDG#: DE103-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/26/2011 04:53	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 15:20	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/15/2011 01:32	Marie D John	20.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107323871	03/14/2011 12:11	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 14:30	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110750001A	03/19/2011 08:51	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110800023A	03/22/2011 16:02	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110760008A	03/22/2011 04:07	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110760008A	03/17/2011 16:20	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110800023A	03/22/2011 09:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110750001A	03/16/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110780015A	03/21/2011 20:32	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 21:50	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 21:49	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 09:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110780015A	03/21/2011 02:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:23	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:36	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-116-SA5A-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229292
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0203 SDG#: DE103-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075495201B	03/18/2011 12:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11075495201B	03/18/2011 12:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/18/2011 02:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 18:45	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 09:49	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075495201B	03/17/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-116-SA5A-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229293
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0204 SDG#: DE103-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.93
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.93
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.3		0.93
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.93
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.93
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.93
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.3		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.93
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.3		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.3		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.93
06192	Ethylbenzene	100-41-4	0.12	J	0.06	4.3		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.93
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.93
06192	Methylene Chloride	75-09-2	2.3	J	0.25	4.3		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.93

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-116-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229293
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0204 SDG#: DE103-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.3		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.3		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.93
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.93
06192	m+p-Xylene	179601-23-1	0.41	J	0.18	4.3		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		24.51
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	191	U	191	381		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)pyrene	50-32-8	100	J	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	62	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	50	J	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Chrysene	218-01-9	83	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1

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Sample Description: **SL-116-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229293
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0204 SDG#: DE103-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	57	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	92	J	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	21	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.5		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.5		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.5		5
10138	Benzo(a)anthracene	56-55-3	13		3.8	9.5		5
10138	Benzo(b)fluoranthene	205-99-2	160		3.8	9.5		5
10138	Benzo(k)fluoranthene	207-08-9	3.8	U	3.8	9.5		5
10138	Di-n-butylphthalate	84-74-2	72	J	34	100		5
10138	Dibenz(a,h)anthracene	53-70-3	6.1	J	3.8	9.5		5

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Sample Description: **SL-116-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229293
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0204 SDG#: DE103-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	6.6	J	3.8	9.5		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.5		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.2	J	3.8	9.5		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.5		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.5		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.5		5
10138	Phenanthrene	85-01-8	4.7	J	3.8	9.5		5

Reporting limits were raised due to interference from the sample matrix.

Di-n-butylphthalate was detected in the method blank at a concentration of 11 ug/kg. The blank value was not subtracted from the analytical result.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229293
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E0204 SDG#: DE103-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.7	U	5.7	19		5
10225	Aroclor 5442	12642-23-8	5.7	U	5.7	19		5
10225	Aroclor 5460	11126-42-4	5.7	U	5.7	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.7		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.7		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.7		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.7		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.7		5
10225	PCB-1254	11097-69-1	1.9	U	1.9	9.7		5
10225	PCB-1260	11096-82-5	2.2	U	2.2	9.7		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.7		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.7		5
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	23	U	23	68		50
10199	EFH (C15-C20)	n.a.	23	U	23	68		50
10199	EFH (C21-C30)	n.a.	240		23	68		50
10199	EFH (C30 - C40)	n.a.	700		23	68		50
10199	EFH (C8-C11)	n.a.	23	U	23	68		50
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							

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Sample Description: **SL-116-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229293
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0204 SDG#: DE103-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.69	22.6		1
07914	Boron	7440-42-8	5.42	J	1.01	5.66		1
01650	Calcium	7440-70-2	4,300		6.94	22.6		1
01654	Iron	7439-89-6	20,600		5.33	22.6		1
01656	Lithium	7439-93-2	18.9		0.25	2.3		1
01657	Magnesium	7439-95-4	4,650		2.87	11.3		1
06958	Manganese	7439-96-5	303		0.0883	0.566		1
10145	Phosphorus	7723-14-0	498		0.634	11.3		1
01662	Potassium	7440-09-7	3,420		20.4	56.6		1
01667	Sodium	7440-23-5	279		42.2	113		1
07968	Strontium	7440-24-6	27.3		0.0702	0.566		1
06969	Tin	7440-31-5	2.60	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,220		0.430	1.13		1
10146	Zirconium	7440-67-7	2.04	J	0.950	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.21		0.0888	0.444		2
06126	Barium	7440-39-3	129		0.120	0.444		2
06127	Beryllium	7440-41-7	0.416		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.174		0.0444	0.111		2
06131	Chromium	7440-47-3	15.4		0.133	0.444		2
06132	Cobalt	7440-48-4	7.01		0.0222	0.111		2
06133	Copper	7440-50-8	14.3		0.0732	0.444		2
06135	Lead	7439-92-1	6.89		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.573		0.0555	0.111		2
06139	Nickel	7440-02-0	12.3		0.111	0.444		2
06141	Selenium	7782-49-2	0.119	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0524	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.266		0.0333	0.111		2
06148	Vanadium	7440-62-2	47.2		0.0244	0.111		2
06149	Zinc	7440-66-6	87.0		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0412	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.3		0.91	1.7		1

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Sample Description: **SL-116-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229293
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0204 SDG#: DE103-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	410		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	9.26		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-116-SA5A-SB-14.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 20:39	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011 17:24	Jason M Long	24.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107323871	03/14/2011 12:04	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107323871	03/14/2011 12:17	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107323871	03/14/2011 12:17	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107323871	03/14/2011 12:05	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 05:16	Timothy J Trees	10

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Laboratory Sample Analysis Record

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04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/26/2011 05:18	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 15:51	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/15/2011 02:09	Marie D John	22.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107323871	03/14/2011 12:05	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 15:13	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110750001A	03/19/2011 09:01	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110760008A	03/22/2011 04:25	Richard A Shober	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110760008A	03/17/2011 16:20	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110750001A	03/16/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110780015A	03/21/2011 20:58	Heather E Williams	50
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 22:05	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 22:02	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 11:45	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110780015A	03/21/2011 02:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:27	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:39	Choon Y Tian	2

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Account # 13013

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E0204 SDG#: DE103-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075495201B	03/18/2011 12:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11075495201B	03/18/2011 12:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/18/2011 03:10	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 18:57	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 09:50	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075495201B	03/17/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-031011 Water
SSFL Area IV Collocated Soil Sampling
TB-031011

LLI Sample # WW 6229294
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 08:00

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0205 SDG#: DE103-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-031011 Water**
SSFL Area IV Collocated Soil Sampling
TB-031011

LLI Sample # WW 6229294
LLI Group # 1237126
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 08:00

Submitted: 03/14/2011 08:45
Reported: 04/01/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E0205 SDG#: DE103-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110741AA	03/15/2011	15:59	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110731AA	03/14/2011	12:34	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110731AA	03/14/2011	12:34	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110741AA	03/15/2011	15:59	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11075B20A	03/17/2011	11:59	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11075B20A	03/17/2011	11:59	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110741AA	Sample number(s): 6229290-6229293									
Acetone	6.7	U	6.7	8.0	ug/kg	104		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	101		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	99		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	118		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	90		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	80		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	79		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	101		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	108		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	112		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	100		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	91		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	96		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	78		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	84		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	98		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	82		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	83		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	91		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	86		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	96		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	70		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	98		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	101		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	98		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	91		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	99		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	119		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	107		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	99		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	100		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	98		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	100		61-134		
Methylene Chloride	0.67	J	0.24	4.0	ug/kg	107		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	110		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	93		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	89		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	102		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	94		77-120		
Toluene	0.11	J	0.08	4.0	ug/kg	99		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	94		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	96		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	86		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	93		80-120		
Batch number: E110731AA	Sample number(s): 6229294									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	115	80-123	4	30
Batch number: E110741AA	Sample number(s): 6229290-6229293									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	109	104	70-130	4	30
Batch number: Y110741AA	Sample number(s): 6229294									
Acetone	6	U	6.	20	ug/l	79	70	49-234	13	30
Benzene	0.5	U	0.5	5	ug/l	96	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	100	99	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	99	100	80-120	0	30
Bromodichloromethane	1	U	1.	5	ug/l	93	92	80-120	2	30
Bromoform	1	U	1.	5	ug/l	76	76	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	86	86	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	95	96	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	95	95	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	98	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	96	98	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	82	82	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	79	79	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	100	100	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	85	86	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	97	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	96	97	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	67	69	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	88	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	87	86	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	97	98	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	93	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	96	96	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	76	77	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	100	100	79-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	108	106	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	91	90	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	97	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	96	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	99	98	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	95	97	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	99	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	90	89	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	92	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	96	95	79-120	2	30
Freon 113	2	U	2.	10	ug/l	93	94	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	99	99	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	88	89	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	92	92	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	94	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	96	97	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	97	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	94	95	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	92	94	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	101	101	80-120	1	30
Styrene	1	U	1.	5	ug/l	89	88	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	94	94	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	93	94	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	95	94	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	94	94	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	93	93	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	92	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	86	88	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	95	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	96	96	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	92	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	100	101	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	99	99	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	98	98	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	79	78	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Batch number: 11076SLI026	Sample number(s): 6229290-6229293									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	89		70-130		
Batch number: 11076SLK026	Sample number(s): 6229290-6229293									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	90		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	104		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	122		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	120		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Di-n-butylphthalate	11	J	6.0	18	ug/kg	108		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	123		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	102		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	112		67-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	101		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	122		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	81		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	88		55-118		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	92		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	91		56-121		
Batch number: 11082SLA026	Sample number(s): 6229290-6229293									
Aniline	170	U	170.	500	ug/kg	58		34-94		
Benzidine	1,200	U	1,200.	3,300	ug/kg	37		15-121		
Benzo(a)pyrene	17	U	17.	170	ug/kg	103		69-122		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	105		65-122		
Benzoic acid	170	U	170.	500	ug/kg	79		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	84		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	90		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	92		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	89		79-112		
Carbazole	17	U	17.	170	ug/kg	91		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	81		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	55		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	81		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	79		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	72		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	88		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	90		79-110		
Chrysene	17	U	17.	170	ug/kg	97		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	60		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	92		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	85		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	82		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	93		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	89		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	78		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	68		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	87		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	89		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	80		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	89		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	91		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isophorone	17	U	17.	170	ug/kg	76		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	83		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	85		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	87		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	66		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	74		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	87		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	71		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	70		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	101		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	83		51-117		
Phenol	17	U	17.	170	ug/kg	80		58-112		
Pyrene	17	U	17.	170	ug/kg	97		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	90		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11073A34A	Sample number(s): 6229290-6229293									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	72		67-119		
Batch number: 11075B20A	Sample number(s): 6229294									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 110750002A	Sample number(s): 6229290-6229293									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	117		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	112	112	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	111	111	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	113		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	110		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
HMX	100	U	100.	300	ug/kg	103		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	109		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	101		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	109		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	107		80-120		
PETN	800	U	800.	2,400	ug/kg	117		80-120		
RDX	50	U	50.	120	ug/kg	102		75-131		
Tetryl	61	U	61.	120	ug/kg	105		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 110750001A	Sample number(s): 6229290-6229293									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	105		80-126		
Batch number: 110800023A	Sample number(s): 6229292									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	100		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110760008A	Sample number(s): 6229290-6229293									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	66	78	36-106	16	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	79		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	89		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110780015A	Sample number(s): 6229290-6229293									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	105		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	106		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	109		66-113		
EFH (C30 - C40)	1.2	J	0.40	1.2	mg/kg	96		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	86		66-113		
Batch number: 110730007A	Sample number(s): 6229290-6229293									
Diethylene glycol	5.0	U	5.0	13	mg/kg	102		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	85		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	80		75-125		
Batch number: 110750026A	Sample number(s): 6229290-6229293									
Ethanol	100	U	100.	500	ug/kg	95		71-129		
Isopropanol	100	U	100.	500	ug/kg	102		75-125		
Methanol	100	U	100.	500	ug/kg	91		68-129		
Batch number: 110760037A	Sample number(s): 6229290-6229293									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	78		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	91		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	75		75-125		
Batch number: 110751026001A	Sample number(s): 6229290-6229293									
Antimony	0.0600	U	0.0600	0.200	mg/kg	95		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	110		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	105		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	101		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	106		80-120		
Lead	0.0105	J	0.0104	0.200	mg/kg	106		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	108		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	102		90-110		
Zinc	0.644	J	0.560	3.00	mg/kg	101		78-122		
Batch number: 110751026001B	Sample number(s): 6229290-6229293									
Selenium	0.0400	U	0.0400	0.400	mg/kg	113		79-122		
Batch number: 110751026001C	Sample number(s): 6229290-6229293									

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Quality Control Summary

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Reported: 04/01/11 at 01:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	109		78-122		
Batch number: 110751026001D	Sample number(s): 6229290-6229293									
Barium	0.108	U	0.108	0.400	mg/kg	103		79-121		
Batch number: 110755708001	Sample number(s): 6229290-6229293									
Aluminum	5.03	U	5.03	20.0	mg/kg	99		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	98		78-110		
Calcium	8.02	J	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	93		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		81-119		
Phosphorus	1.34	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.44	J	1.00	10.0	mg/kg	98		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	98		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 110755711002	Sample number(s): 6229290-6229293									
Mercury	0.0028	U	0.0028	0.0985	mg/kg	98		88-123		
Batch number: 11074243201A	Sample number(s): 6229290-6229293									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11075495201B	Sample number(s): 6229290-6229293									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	107		90-110		
Batch number: 11076076201B	Sample number(s): 6229290-6229293									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11081102201A	Sample number(s): 6229290-6229293									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	110		80-120		
Batch number: 11074039401B	Sample number(s): 6229290-6229293									
18a pH by 9045C						100		95-105		
Batch number: 11074182101B	Sample number(s): 6229290-6229293									
32a OR Potential						99		98-102		
Batch number: 11083162401A	Sample number(s): 6229290-6229293									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110741AA	Sample number(s): 6229290-6229293 UNSPK: P228978								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acetone	111	93	15-210	3	30				
Benzene	106	109	55-143	24	30				
Bromobenzene	99	108	43-139	28	30				
Bromochloromethane	125	121	60-137	18	30				
Bromodichloromethane	93	95	53-136	23	30				
Bromoform	80	77	38-124	17	30				
Bromomethane	82	92	42-168	32*	30				
2-Butanone	101	86	37-163	5	30				
n-Butylbenzene	107	118	30-146	30	30				
sec-Butylbenzene	110	121	33-157	30	30				
tert-Butylbenzene	101	108	41-152	27	30				
Carbon Tetrachloride	97	103	45-153	26	30				
Chlorobenzene	98	104	49-135	27	30				
Chloroethane	84	94	39-152	32*	30				
2-Chloroethyl Vinyl Ether	80	80	32-139	21	30				
Chloroform	104	107	61-142	23	30				
Chloromethane	89	95	51-163	27	30				
2-Chlorotoluene	101	111	42-146	30	30				
4-Chlorotoluene	99	108	39-145	29	30				
Chlorotrifluoroethene	87	93	70-130	16	30				
1,2-Dibromo-3-chloropropane	84	75	30-139	9	30				
Dibromochloromethane	85	86	51-128	22	30				
1,2-Dibromoethane	97	94	54-129	18	30				
Dibromomethane	97	96	57-130	19	30				
1,2-Dichlorobenzene	92	98	36-133	26	30				
1,3-Dichlorobenzene	95	104	34-134	29	30				
1,4-Dichlorobenzene	94	102	35-136	29	30				
Dichlorodifluoromethane	76	82	26-151	28	30				
1,1-Dichloroethane	104	109	63-142	25	30				
1,2-Dichloroethane	101	99	68-131	19	30				
1,1-Dichloroethene	121	125	61-149	23	30				
cis-1,2-Dichloroethene	102	107	60-136	25	30				
trans-1,2-Dichloroethene	108	112	59-142	24	30				
1,2-Dichloropropane	102	105	62-135	23	30				
1,3-Dichloropropane	99	98	58-129	19	30				
2,2-Dichloropropane	96	101	53-147	26	30				
1,1-Dichloropropene	107	111	54-145	24	30				
cis-1,3-Dichloropropene	90	93	51-131	24	30				
trans-1,3-Dichloropropene	86	88	49-129	22	30				
Ethylbenzene	102	108	44-141	27	30				
Freon 113	131	134	56-156	23	30				
Freon 133a	116	118	61-131	10	30				
Hexachlorobutadiene	92	97	10-155	26	30				
2-Hexanone	99	86	32-160	7	30				
Isopropylbenzene	100	105	38-144	26	30				
p-Isopropyltoluene	107	117	29-152	29	30				
Methyl Tertiary Butyl Ether	96	94	55-129	18	30				
4-Methyl-2-pentanone	98	85	46-139	6	30				
Methylene Chloride	115	113	61-141	18	30				
n-Propylbenzene	111	125	39-157	32*	30				
Styrene	96	101	35-134	26	30				
1,1,1,2-Tetrachloroethane	89	91	52-130	24	30				
1,1,2,2-Tetrachloroethane	101	95	40-152	15	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Tetrachloroethene	101	103	42-149	23	30				
Toluene	102	107	50-146	25	30				
1,2,3-Trichlorobenzene	78	80	10-140	22	30				
1,2,4-Trichlorobenzene	82	84	10-136	23	30				
1,1,1-Trichloroethane	99	105	64-142	26	30				
1,1,2-Trichloroethane	98	96	54-139	19	30				
Trichloroethene	103	104	53-144	22	30				
Trichlorofluoromethane	105	113	47-163	27	30				
1,2,3-Trichloropropane	101	95	45-154	14	30				
1,2,4-Trimethylbenzene	102	112	37-149	30	30				
1,3,5-Trimethylbenzene	103	113	38-150	29	30				
Vinyl Chloride	93	100	50-154	28	30				
m+p-Xylene	99	106	44-137	28	30				
o-Xylene	94	101	42-137	27	30				
Batch number: E110741AA	Sample number(s): 6229290-6229293 UNSPK: P228978								
1,4-Dioxane	95	98	70-130	11	30				
Batch number: 11076SLI026	Sample number(s): 6229290-6229293 UNSPK: P228978								
N-Nitrosodimethylamine	68*	67*	70-130	2	30				
Batch number: 11076SLK026	Sample number(s): 6229290-6229293 UNSPK: P228978								
Acenaphthene	91	86	63-105	5	30				
Acenaphthylene	90	85	67-114	5	30				
Anthracene	96	91	60-122	5	30				
Benzo(a)anthracene	99	97	59-128	3	30				
Benzo(a)pyrene	107	103	45-138	4	30				
Benzo(b)fluoranthene	108	103	43-155	4	30				
Benzo(g,h,i)perylene	118	117	33-141	1	30				
Benzo(k)fluoranthene	111	108	42-144	2	30				
Butylbenzylphthalate	106	100	57-173	5	30				
Di-n-butylphthalate	77	73	65-148	3	30				
Chrysene	99	96	48-134	2	30				
Dibenz(a,h)anthracene	123	120	22-133	2	30				
Diethylphthalate	104	99	70-136	4	30				
Dimethylphthalate	103	101	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	114	110	39-167	3	30				
Fluoranthene	104	101	26-166	2	30				
Fluorene	96	93	66-122	3	30				
Indeno(1,2,3-cd)pyrene	121	119	21-143	1	30				
1-Methylnaphthalene	89	85	72-123	4	30				
2-Methylnaphthalene	81	78	64-103	4	30				
Naphthalene	89	83	61-102	6	30				
N-Nitrosodimethylamine	93	84	48-113	10	30				
Phenanthrene	94	89	12-165	5	30				
Pyrene	90	86	15-153	4	30				
Batch number: 11082SLA026	Sample number(s): 6229290-6229293 UNSPK: P228978								
Aniline	61	64	35-95	5	30				
Benzidine	45	41	35-141	9	30				
Benzo(a)pyrene	98	102	57-126	4	30				
Benzo(g,h,i)perylene	100	103	59-127	3	30				
Benzoic acid	46	44	10-173	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzyl alcohol	76	80	67-115	6	30				
4-Bromophenyl-phenylether	87	90	67-129	3	30				
Butylbenzylphthalate	89	91	73-134	3	30				
Di-n-butylphthalate	83	85	67-123	3	30				
Carbazole	85	87	64-120	3	30				
4-Chloro-3-methylphenol	75*	78	76-110	3	30				
4-Chloroaniline	70	73	23-95	4	30				
bis(2-Chloroethoxy)methane	79	80	75-104	2	30				
bis(2-Chloroethyl)ether	75	79	60-116	4	30				
bis(2-Chloroisopropyl)ether	68	71	55-142	5	30				
2-Chloronaphthalene	71	71	50-141	0	30				
2-Chlorophenol	84	86	73-121	2	30				
4-Chlorophenyl-phenylether	88	90	80-109	2	30				
Chrysene	91	94	62-128	3	30				
Dibenzofuran	88	89	71-112	1	30				
1,2-Dichlorobenzene	79	83	66-108	5	30				
1,3-Dichlorobenzene	77	84	63-109	8	30				
1,4-Dichlorobenzene	77	84	70-100	8	30				
3,3'-Dichlorobenzidine	52	59	16-119	14	30				
2,4-Dichlorophenol	86	89	78-117	3	30				
Diethylphthalate	81	83	66-118	2	30				
2,4-Dimethylphenol	78	80	78-110	2	30				
3,5-Dimethylphenol	87	88	70-130	1	30				
Dimethylphthalate	84	87	64-118	3	30				
4,6-Dinitro-2-methylphenol	74	79	24-116	6	30				
2,4-Dinitrophenol	61	61	20-143	0	30				
2,4-Dinitrotoluene	82	83	73-113	1	30				
2,6-Dinitrotoluene	84	87	69-123	4	30				
1,2-Diphenylhydrazine	78	80	71-129	2	30				
bis(2-Ethylhexyl)phthalate	87	89	63-122	3	30				
Hexachlorobenzene	89	92	77-114	3	30				
Hexachlorobutadiene	83	88	62-120	6	30				
Hexachlorocyclopentadiene	87	94	10-153	8	30				
Hexachloroethane	70	76	57-109	7	30				
Isophorone	73	75	73-102	3	30				
2-Methylphenol	77	78	75-111	1	30				
4-Methylphenol	81	83	71-111	2	30				
2-Nitroaniline	83	85	67-125	2	30				
3-Nitroaniline	81	82	59-122	1	30				
4-Nitroaniline	64	69	52-112	8	30				
Nitrobenzene	72	73	72-106	1	30				
2-Nitrophenol	84	85	74-115	1	30				
4-Nitrophenol	65	65	54-113	0	30				
N-Nitroso-di-n-propylamine	66	68	60-116	3	30				
N-Nitrosodiphenylamine	92	94	86-145	2	30				
Di-n-octylphthalate	99	100	56-126	1	30				
Pentachlorophenol	74	80	28-127	8	30				
Phenol	75	77	58-126	3	30				
Pyrene	94	97	74-126	3	30				
1,2,4-Trichlorobenzene	86	90	72-115	4	30				
2,4,5-Trichlorophenol	87	89	78-109	2	30				
2,4,6-Trichlorophenol	86	88	77-115	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11073A34A	Sample number(s): 6229290-6229293 UNSPK: P228978								
9a TPH by EPA 8015B Gas C5-C12	59	60	39-118	18	30				
Batch number: 110750002A	Sample number(s): 6229290-6229293 UNSPK: P228978								
4-Amino-2,6-Dinitrotoluene	106	115	80-127	9	50				
2-Amino-4,6-Dinitrotoluene	102	110	80-137	10	50				
1,3-Dinitrobenzene	102	110	38-166	9	50				
2,4-Dinitrotoluene	99	107	80-131	9	50				
2,6-Dinitrotoluene	104	114	80-127	12	50				
HMX	83	98	63-128	19	50				
Nitrobenzene	99	105	80-125	8	50				
Nitroglycerin	96	103	80-120	9	50				
2-Nitrotoluene	100	106	80-122	8	50				
3-Nitrotoluene	100	107	72-119	8	50				
4-Nitrotoluene	99	105	80-125	8	50				
PETN	105	116	80-121	12	50				
RDX	89	89	75-129	1	50				
Tetryl	84	93	55-174	12	50				
1,3,5-Trinitrobenzene	137*	109	82-126	21	50				
2,4,6-Trinitrotoluene	103	111	82-130	9	50				
Batch number: 110750001A	Sample number(s): 6229290-6229293 UNSPK: 6229290								
25a Formaldehyde 8315A	106	106	80-120	1	50				
Batch number: 110800023A	Sample number(s): 6229292 UNSPK: 6229292								
6a Perchlorate EPA 6850	98	103	80-120	5	20				
Batch number: 110760008A	Sample number(s): 6229290-6229293 UNSPK: P220827								
PCB-1016	84	82	29-146	2	50				
PCB-1260	102	98	39-149	4	50				
Batch number: 110780015A	Sample number(s): 6229290-6229293 UNSPK: 6229290								
EFH (C12-C14)	105	104	49-123	1	20				
EFH (C15-C20)	79	90	49-123	7	20				
EFH (C21-C30)	-418 (2)	-326 (2)	49-123	12	20				
EFH (C30 - C40)	-611 (2)	-438 (2)	49-123	12	20				
EFH (C8-C11)	80	78	49-123	2	20				
Batch number: 110730007A	Sample number(s): 6229290-6229293 UNSPK: P228978								
Diethylene glycol	54*	67	59-109	21*	20				
Ethylene glycol	68	73	63-107	6	20				
Propylene glycol	75	76	63-107	2	20				
Batch number: 110750026A	Sample number(s): 6229290-6229293 UNSPK: P228978								
Ethanol	79	77	48-130	2	20				
Isopropanol	85	83	12-149	2	20				
Methanol	81	79	43-138	3	20				
Batch number: 110760037A	Sample number(s): 6229290-6229293 UNSPK: P228978								
m-Terphenyl	72*	75	75-125	4	20				
o-Terphenyl	84	87	75-125	4	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p-Terphenyl	71*	74*	75-125	4	20				
Batch number: 110751026001A	Sample number(s): 6229290-6229293 UNSPK: P228978 BKG: P228978								
Antimony	50*	45*	75-125	10	20	0.224	0.155 J	36* (1)	20
Arsenic	105	107	75-125	0	20	7.19	5.70	23*	20
Beryllium	102	99	75-125	2	20	0.883	0.733	18	20
Cadmium	128*	108	75-125	15	20	0.344	0.210	49* (1)	20
Chromium	96	89	75-125	2	20	34.2	28.1	20	20
Cobalt	105	94	75-125	12	20	7.97	7.62	4	20
Copper	95	89	75-125	4	20	13.6	12.3	10	20
Lead	162*	96	75-125	14	20	10.3	8.72	16	20
Nickel	160*	110	75-125	15	20	21.4	18.1	17	20
Silver	117	118	75-125	1	20	0.0603 J	0.0471 J	25* (1)	20
Thallium	128*	95	75-125	18	20	0.323	0.250	25* (1)	20
Vanadium	119 (2)	96 (2)	75-125	3	20	63.4	53.0	18	20
Zinc	66 (2)	69 (2)	75-125	0	20	63.4	54.4	15	20
Batch number: 110751026001B	Sample number(s): 6229290-6229293 UNSPK: P228978 BKG: P228978								
Selenium	111	106	75-125	7	20	0.125 J	0.0660 J	62* (1)	20
Batch number: 110751026001C	Sample number(s): 6229290-6229293 UNSPK: P228978 BKG: P228978								
Molybdenum	120	113	75-125	8	20	0.270	0.240	12 (1)	20
Batch number: 110751026001D	Sample number(s): 6229290-6229293 UNSPK: P228978 BKG: P228978								
Barium	134 (2)	116 (2)	75-125	2	20	117	92.8	23*	20
Batch number: 110755708001	Sample number(s): 6229290-6229293 UNSPK: P228978 BKG: P228978								
Aluminum	1171 (2)	414 (2)	75-125	5	20	28,700	27,700	3	20
Boron	99	99	84-115	2	20	10.7	10.2	5 (1)	20
Calcium	6342 (2)	7873 (2)	75-125	12	20	27,700	33,300	18	20
Iron	-650 (2)	-2631 (2)	75-125	8	20	26,400	25,500	4	20
Lithium	104	103	82-114	2	20	25.5	25.1	2	20
Magnesium	-50 (2)	-194 (2)	75-125	5	20	6,430	6,210	3	20
Manganese	-167 (2)	-131 (2)	75-125	6	20	350	356	2	20
Phosphorus	77	89	75-125	5	20	190	209	9	20
Potassium	118	110	75-125	1	20	2,650	2,690	2	20
Sodium	100	99	75-125	2	20	219	211	4 (1)	20
Strontium	102	93	75-115	4	20	52.0	52.4	1	20
Tin	84	84	80-110	3	20	2.40 J	2.16 J	10 (1)	20
Titanium	163 (2)	138 (2)	75-125	1	20	1,210	1,190	2	20
Zirconium	95	96	75-125	3	20	4.30 J	5.09	17 (1)	20
Batch number: 110755711002	Sample number(s): 6229290-6229293 UNSPK: P228978 BKG: P228978								
Mercury	108	103	65-135	7	20	0.0071 J	0.0110 J	43* (1)	20
Batch number: 11074243201A	Sample number(s): 6229290-6229293 UNSPK: P228978 BKG: P228978								
3a Cr VI by EPA 7199	89		75-125			0.20 U	0.20 U	0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11075495201B	Sample number(s): 6229290-6229293					UNSPK: 6229290	BKG: 6229290		
11a Anions by 300.0 - Fluoride	92		80-120			2.7	3.1	14 (1)	20
11a Anions by 300.0 - Nitrate	116		80-120			1.7	1.8	3 (1)	20
Batch number: 11076076201B	Sample number(s): 6229290-6229293					UNSPK: P228978	BKG: P228978		
7a Perchlorate EPA 314.0	108		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11081102201A	Sample number(s): 6229290-6229293					UNSPK: P228978	BKG: P228978		
17a Cyanide by 9012B	115		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11074039401B	Sample number(s): 6229290-6229293					BKG: P228978			
18a pH by 9045C						8.06	8.06	0	1
Batch number: 11074182101B	Sample number(s): 6229290-6229293					BKG: P228978			
32a OR Potential						328	328	0	6
Batch number: 11083162401A	Sample number(s): 6229290-6229293					BKG: P228978			
Moisture Content by 160.3						22.8	22.9	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110741AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6229290	97	100	98	94
6229291	97	100	98	95
6229292	94	96	100	91
6229293	97	98	99	94
Blank	98	101	99	94
LCS	99	100	102	98
MS	99	103	101	101
MSD	96	93	101	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110731AA

	Toluene-d8
6229294	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Surrogate Quality Control

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110741AA

	Toluene-d8
6229290	96
6229291	96
6229292	97
6229293	96
Blank	95
LCS	95
LCSD	99
MS	95
MSD	96
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110741AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6229294	104	101	101	96
Blank	103	99	101	97
LCS	103	102	101	98
LCSD	103	102	101	98
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11076SLI026

	N-Nitrosodimethylamine-d6
6229290	105
6229291	103
6229292	101
6229293	95
Blank	94
LCS	90
MS	104
MSD	100
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11076SLK026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6229290	91	87	85
6229291	87	84	79
6229292	98	90	79
6229293	101	92	89
Blank	87	85	90
LCS	91	86	89
MS	98	88	90
MSD	97	85	89
Limits:	40-130	45-130	45-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11082SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6229290	80	83	80	65	88	88
6229291	76	82	79	66	89	91
6229292	81	87	78	68	90	92
6229293	71	78	85	66	83	75
Blank	76	83	87	71	92	89
LCS	82	85	91	72	91	87
MS	77	83	85	71	89	84
MSD	80	85	88	72	91	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11073A34A

	Trifluorotoluene-F
6229290	79
6229291	79
6229292	81
6229293	76
Blank	82
LCS	86
MS	76
MSD	74
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11075B20A

	Trifluorotoluene-F
6229294	77
Blank	78
LCS	100
LCSD	101
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110750001A

	Butyraldehyde
6229290	126
6229291	94
6229292	124
6229293	122
Blank	105
LCS	130*
MS	119
MSD	134*
Limits:	64-126

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Surrogate Quality Control

Analysis Name: 16a Energetics by 8330A
Batch number: 110750002A

	2-Nitro-m-xylene
6229290	108
6229291	110
6229292	114
6229293	109
Blank	114
LCS	121
LCSD	117
MS	114
MSD	114
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110760008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6229290	88	73
6229291	89	84
6229292	90	71
6229293	56	57
Blank	77	95
LCS	83	94
LCSD	87	103
MS	85	101
MSD	82	94
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110730007A

	Tetramethylene glycol
6229290	55
6229291	62
6229292	59
6229293	77
Blank	99
LCS	98
MS	83
MSD	78
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 110750026A

	Acetone
6229290	92
6229291	93
6229292	92
6229293	92
Blank	108
LCS	106

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237126
Reported: 04/01/11 at 01:16 PM

Surrogate Quality Control

MS	85
MSD	83
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110760037A

	n-Triacontane-d62
6229290	108
6229291	81
6229292	67
6229293	192*
Blank	65
LCS	65
MS	65
MSD	79
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110780015A

	Chlorobenzene	Orthoterphenyl
6229290	89	102
6229291	100	109
6229292	92	102
6229293	220*	245*
Blank	92	102
LCS	97	103
MS	96	101
MSD	96	98
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-115-SA5A-SB-6.5-7.5	03.10.11	1022	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-115-SA5A-SB-7.0	03.10.11	1017	SOIL	NONE	5-Encores									X	X	X											
SL-115-SA5A-SB-13.0-14.0	03.10.11	1044	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-115-SA5A-SB-13.5	03.10.11	1030	SOIL	NONE	5-Encores									X	X	X											
SL-116-SA5A-SB-6.0-7.0	03.10.11	1357	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X		
SL-116-SA5A-SB-6.5	03.10.11	1350	SOIL	NONE	5-Encores									X	X	X											
SL-116-SA5A-SB-14.0-15.0	03.10.11	1410	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-116-SA5A-SB-14.5	03.10.11	1405	SOIL	NONE	5-Encores									X	X	X											
TB-031011	03.10.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 03/10/2011 / 17:00		Received for Laboratory by: (*Signature*)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8695 1432 5419																								

13013 1237126 6229290-94

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-115-SA5S-SB-6.5-7.5	03.10.11	1022	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-115-SA5S-SB-7.0	03.10.11	1017	SOIL	NONE	5-Encores									X	X	X											
SL-115-SA5S-SB-13.0-14.0	03.10.11	1044	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-115-SA5S-SB-13.5	03.10.11	1030	SOIL	NONE	5-Encores									X	X	X											
SL-116-SA5A-SB-6.0-7.0	03.10.11	1357	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-116-SA5A-SB-6.5	03.10.11	1350	SOIL	NONE	5-Encores									X	X	X											
SL-116-SA5A-SB-14.0-15.0	03.10.11	1410	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-116-SA5A-SB-14.5	03.10.11	1405	SOIL	NONE	5-Encores									X	X	X											
TB-031011	03.10.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 03/10/2011 / 17:00

Received for Laboratory by: (Signature) LLJ 3/14/11 — 845

Received by: (Signature) — Date/Time

Airbill No.(s): 8695 1432 5419

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/14/2011
Group Number: 1237127
SDG: DX062
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-115-SA5A-SB-6.5-7.5 Soil	6229295
SL-115-SA5A-SB-13.0-14.0 Soil	6229296
SL-116-SA5A-SB-6.0-7.0 Soil	6229297
SL-116-SA5A-SB-14.0-15.0 Soil	6229298

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-115-SA5A-SB-6.5-7.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229295
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6201 SDG#: DX062-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-115-SA5A-SB-6.5-7.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229295
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6201 SDG#: DX062-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0286	U	0.0286	1.10	1
11031	12378-PeCDD	40321-76-4	0.0747	JB	0.0330	5.52	1
11031	123478-HxCDD	39227-28-6	0.130	J	0.0551	5.52	1
11031	123678-HxCDD	57653-85-7	0.592	JB	0.0544	5.52	1
11031	123789-HxCDD	19408-74-3	0.305	JB	0.0466	5.52	1
11031	1234678-HpCDD	35822-46-9	22.9	B	0.0768	5.52	1
11031	OCDD	3268-87-9	381	B	0.0533	11.0	1
11031	2378-TCDF	51207-31-9	0.0359	U	0.0359	1.10	1
11031	12378-PeCDF	57117-41-6	0.611	JB	0.0316	5.52	1
11031	23478-PeCDF	57117-31-4	0.586	JB	0.0310	5.52	1
11031	123478-HxCDF	70648-26-9	0.584	JBQ	0.0502	5.52	1
11031	123678-HxCDF	57117-44-9	0.300	JB	0.0390	5.52	1
11031	123789-HxCDF	72918-21-9	0.118	JB	0.0324	5.52	1
11031	234678-HxCDF	60851-34-5	0.441	JB	0.0330	5.52	1
11031	1234678-HpCDF	67562-39-4	2.97	JB	0.0356	5.52	1
11031	1234789-HpCDF	55673-89-7	0.397	JB	0.0335	5.52	1
11031	OCDF	39001-02-0	5.62	JB	0.0354	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-115-SA5A-SB-6.5-7.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229295
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6201 SDG#: DX062-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-115-SA5A-SB-6.5-7.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229295
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6201 SDG#: DX062-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 03:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229296
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6202 SDG#: DX062-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229296
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6202 SDG#: DX062-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0243	U	0.0243	1.12	1
11031	12378-PeCDD	40321-76-4	0.119	JBQ	0.0278	5.58	1
11031	123478-HxCDD	39227-28-6	0.133	JQ	0.0470	5.58	1
11031	123678-HxCDD	57653-85-7	0.337	JB	0.0471	5.58	1
11031	123789-HxCDD	19408-74-3	0.238	JBQ	0.0462	5.58	1
11031	1234678-HpCDD	35822-46-9	15.5	B	0.0675	5.58	1
11031	OCDD	3268-87-9	300	B	0.0570	11.2	1
11031	2378-TCDF	51207-31-9	0.0319	U	0.0319	1.12	1
11031	12378-PeCDF	57117-41-6	0.399	JB	0.0218	5.58	1
11031	23478-PeCDF	57117-31-4	0.357	JB	0.0224	5.58	1
11031	123478-HxCDF	70648-26-9	0.277	JB	0.0402	5.58	1
11031	123678-HxCDF	57117-44-9	0.182	JB	0.0317	5.58	1
11031	123789-HxCDF	72918-21-9	0.172	JB	0.0354	5.58	1
11031	234678-HxCDF	60851-34-5	0.262	JB	0.0302	5.58	1
11031	1234678-HpCDF	67562-39-4	1.74	JB	0.0298	5.58	1
11031	1234789-HpCDF	55673-89-7	0.265	JB	0.0346	5.58	1
11031	OCDF	39001-02-0	3.61	JB	0.0334	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	98	25 - 164
13C12-12378-PeCDD	96	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	107	24 - 169
13C12-12378-PeCDF	113	24 - 185
13C12-23478-PeCDF	102	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	105	26 - 123
13C12-234678-HxCDF	104	28 - 136
13C12-123789-HxCDF	101	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	79	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229296
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6202 SDG#: DX062-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229296
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6202 SDG#: DX062-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 11:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-116-SA5A-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229297
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6203 SDG#: DX062-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-116-SA5A-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229297
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6203 SDG#: DX062-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0527	JQ	0.0246	1.12	1
11031	12378-PeCDD	40321-76-4	0.123	JB	0.0259	5.59	1
11031	123478-HxCDD	39227-28-6	0.104	J	0.0315	5.59	1
11031	123678-HxCDD	57653-85-7	0.203	JB	0.0303	5.59	1
11031	123789-HxCDD	19408-74-3	0.159	JB	0.0291	5.59	1
11031	1234678-HpCDD	35822-46-9	5.62	B	0.0406	5.59	1
11031	OCDD	3268-87-9	106	B	0.0369	11.2	1
11031	2378-TCDF	51207-31-9	0.0529	JBQ	0.0228	1.12	1
11031	12378-PeCDF	57117-41-6	0.279	JB	0.0163	5.59	1
11031	23478-PeCDF	57117-31-4	0.327	JB	0.0164	5.59	1
11031	123478-HxCDF	70648-26-9	0.432	JB	0.0448	5.59	1
11031	123678-HxCDF	57117-44-9	0.235	JB	0.0354	5.59	1
11031	123789-HxCDF	72918-21-9	0.160	JBQ	0.0302	5.59	1
11031	234678-HxCDF	60851-34-5	0.334	JB	0.0294	5.59	1
11031	1234678-HpCDF	67562-39-4	1.62	JB	0.0288	5.59	1
11031	1234789-HpCDF	55673-89-7	0.184	JB	0.0249	5.59	1
11031	OCDF	39001-02-0	2.09	JB	0.0279	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	97	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	96	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	80	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

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Analysis Report

Sample Description: **SL-116-SA5A-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229297
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6203 SDG#: DX062-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-116-SA5A-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229297
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6203 SDG#: DX062-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 12:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-116-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229298
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6204 SDG#: DX062-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-116-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229298
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6204 SDG#: DX062-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0345	U	0.0345	1.14	1
11031	12378-PeCDD	40321-76-4	0.314	JB	0.0397	5.71	1
11031	123478-HxCDD	39227-28-6	0.442	J	0.0490	5.71	1
11031	123678-HxCDD	57653-85-7	1.67	JB	0.0527	5.71	1
11031	123789-HxCDD	19408-74-3	0.953	JB	0.0502	5.71	1
11031	1234678-HpCDD	35822-46-9	50.9	B	0.0533	5.71	1
11031	OCDD	3268-87-9	555	B	0.0679	11.4	1
11031	2378-TCDF	51207-31-9	0.127	JB	0.0419	1.14	1
11031	12378-PeCDF	57117-41-6	0.283	JBQ	0.0258	5.71	1
11031	23478-PeCDF	57117-31-4	1.14	JB	0.0240	5.71	1
11031	123478-HxCDF	70648-26-9	0.569	JB	0.0394	5.71	1
11031	123678-HxCDF	57117-44-9	0.707	JB	0.0359	5.71	1
11031	123789-HxCDF	72918-21-9	0.274	JB	0.0371	5.71	1
11031	234678-HxCDF	60851-34-5	1.18	JB	0.0322	5.71	1
11031	1234678-HpCDF	67562-39-4	7.85	B	0.0361	5.71	1
11031	1234789-HpCDF	55673-89-7	0.877	JB	0.0400	5.71	1
11031	OCDF	39001-02-0	18.6	B	0.0546	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	47	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	98	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-116-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229298
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6204 SDG#: DX062-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-116-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229298
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6204 SDG#: DX062-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 12:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237127
Reported: 04/06/11 at 10:12 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11083162401A	Sample number(s): 6229295-6229298								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11090001	Sample number(s): 6229295-6229298								
2378-TCDD	0.0299 U	0.0299	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0588 J	0.0279	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0229 U	0.0229	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0329 J	0.0229	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0392 J	0.0224	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.351 J	0.0348	5.00	ng/kg	90		70-140		
OCDD	0.634 J	0.0353	10.0	ng/kg	91		78-144		
2378-TCDF	0.0440 J	0.0269	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0506 J	0.0165	5.00	ng/kg	92		80-134		
23478-PeCDF	0.169 J	0.0160	5.00	ng/kg	92		68-160		
123478-HxCDF	0.135 J	0.0277	5.00	ng/kg	93		72-134		
123678-HxCDF	0.119 J	0.0219	5.00	ng/kg	94		84-130		
123789-HxCDF	0.116 J	0.0240	5.00	ng/kg	93		78-130		
234678-HxCDF	0.255 J	0.0209	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.742 J	0.0173	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.112 J	0.0206	5.00	ng/kg	91		78-138		
OCDF	0.496 J	0.0336	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11083162401A	Sample number(s): 6229295-6229298					BKG: P228978			
Moisture Content by 160.3						22.8	22.9	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237127
Reported: 04/06/11 at 10:12 PM

Surrogate Quality Control

Batch number: 11090001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6229295	80	76	53	66	76	83
6229296	98	102	82	105	104	101
6229297	84	93	64	79	96	96
6229298	75	98	76	82	85	83
Blank	77	82	66	81	83	82
OPR	73	73	49	65	76	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6229295	58	67	61	69	72	64
6229296	95	87	79	97	96	91
6229297	70	86	80	90	88	79
6229298	73	71	46	92	92	79
Blank	79	74	68	100	78	75
OPR	62	66	59	85	76	65
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6229295	66	74	61	61	83	84
6229296	93	93	82	78	107	113
6229297	86	87	78	77	97	103
6229298	81	78	67	47	87	99
Blank	77	78	70	67	79	87
OPR	69	73	65	62	76	83
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

A#1303 G#122514.1 Amended 4-15

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Amended COC
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-115-SA5A-SB-6.5-7.5	03.10.11	1022	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-115-SA5A-SB-7.0	03.10.11	1017	SOIL	NONE	5-Encores									X	X	X										
SL-115-SA5A-SB-13.0-14.0	03.10.11	1044	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-115-SA5A-SB-13.5	03.10.11	1030	SOIL	NONE	5-Encores									X	X	X										
SL-116-SA5A-SB-6.0-7.0	03.10.11	1357	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-116-SA5A-SB-6.5	03.10.11	1350	SOIL	NONE	5-Encores									X	X	X										
SL-116-SA5A-SB-14.0-15.0	03.10.11	1410	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-116-SA5A-SB-14.5	03.10.11	1405	SOIL	NONE	5-Encores									X	X	X										
TB-031011	03.10.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X										TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 03/10/2011 / 17:00		Received for Laboratory by: (*Signature*)																							Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8695 1432 5419																							

13013 1237127 6229295-98

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-115-SA5S-SB-6.5-7.5	03.10.11	1022	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-115-SA5S-SB-7.0	03.10.11	1017	SOIL	NONE	5-Encores									X	X	X											
SL-115-SA5S-SB-13.0-14.0	03.10.11	1044	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-115-SA5S-SB-13.5	03.10.11	1030	SOIL	NONE	5-Encores									X	X	X											
SL-116-SA5A-SB-6.0-7.0	03.10.11	1357	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-116-SA5A-SB-6.5	03.10.11	1350	SOIL	NONE	5-Encores									X	X	X											
SL-116-SA5A-SB-14.0-15.0	03.10.11	1410	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-116-SA5A-SB-14.5	03.10.11	1405	SOIL	NONE	5-Encores									X	X	X											
TB-031011	03.10.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 03/10/2011 / 17:00 — Received for Laboratory by: (Signature) LL3 3/14/11 8:45 — Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time — Airbill No.(s): 8695 1432 5419

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/15/2011
Group Number: 1237324
SDG: DE104
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-121-SA5A-SB-2.0-3.0 Soil	6230061
SL-118-SA5A-SB-2.5-3.5 Soil	6230062
SL-117-SA5A-SB-5.0-6.0 Soil	6230063
SL-001-SA5A-SB-4.0-5.0 Soil	6230064
TB-031411 Water	6230065

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-121-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230061
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL121 SDG#: DE104-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.98
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.98
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.98
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.98
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.98
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.98
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.98
06192	Methylene Chloride	75-09-2	1.4	J	0.25	4.2		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.98

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-121-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230061
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL121 SDG#: DE104-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.98
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		25.93
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-121-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230061
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL121 SDG#: DE104-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	2.7		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	5.0		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	4.0		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	5.3		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.8		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.2		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	5.6		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	J	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	9.4		0.72	1.8		1
10138	Fluorene	86-73-7	0.87	J	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.2		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-121-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230061
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL121 SDG#: DE104-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.80	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Phenanthrene	85-01-8	10		0.72	1.8		1
10138	Pyrene	129-00-0	9.3		0.72	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: indeno(1,2,3-cd)pyrene							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.27	21.0		1
07914	Boron	7440-42-8	3.29	J	0.933	5.24		1
01650	Calcium	7440-70-2	4,120		6.43	21.0		1
01654	Iron	7439-89-6	21,600		4.94	21.0		1
01656	Lithium	7439-93-2	31.5		0.23	2.1		1
01657	Magnesium	7439-95-4	6,410		2.66	10.5		1
06958	Manganese	7439-96-5	295		0.0818	0.524		1
10145	Phosphorus	7723-14-0	432		0.587	10.5		1
01662	Potassium	7440-09-7	3,430		18.9	52.4		1
01667	Sodium	7440-23-5	144		39.1	105		1
07968	Strontium	7440-24-6	10.7		0.0650	0.524		1
06969	Tin	7440-31-5	2.67	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,270		0.398	1.05		1
10146	Zirconium	7440-67-7	0.881	U	0.881	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0642	U	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.14		0.0855	0.428		2

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Sample Description: **SL-121-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230061
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL121 SDG#: DE104-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	112	0.115	0.428		2
06127	Beryllium	7440-41-7	0.553	0.0171	0.107		2
06128	Cadmium	7440-43-9	0.153	0.0428	0.107		2
06131	Chromium	7440-47-3	22.5	0.128	0.428		2
06132	Cobalt	7440-48-4	6.89	0.0214	0.107		2
06133	Copper	7440-50-8	9.66	0.0706	0.428		2
06135	Lead	7439-92-1	5.64	0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.460	0.0535	0.107		2
06139	Nickel	7440-02-0	15.7	0.107	0.428		2
06141	Selenium	7782-49-2	0.142 J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0327 J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.318	0.0321	0.107		2
06148	Vanadium	7440-62-2	47.2	0.0235	0.107		2
06149	Zinc	7440-66-6	76.3	0.599	3.21		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.86	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	390	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.93	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-121-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230061
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL121 SDG#: DE104-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-121-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 21:01	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110761AA	03/17/2011 10:58	Jason M Long	25.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107423875	03/15/2011 19:57	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107423875	03/15/2011 20:14	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107423875	03/15/2011 20:14	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107423875	03/15/2011 19:54	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/26/2011 08:38	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011 08:28	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011 03:00	Sherry L Morrow	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110800023A	03/22/2011 16:21	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 12:51	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110800023A	03/22/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 21:07	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 23:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 23:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 23:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 23:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 23:10	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-121-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230061
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL121 SDG#: DE104-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 23:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 23:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 23:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 23:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 23:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 23:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 23:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 23:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 23:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 23:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 23:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201B	03/18/2011 20:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076202A	03/28/2011 19:49	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11080243201A	03/22/2011 16:55	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201B	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076202A	03/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101A	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401A	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401B	03/24/2011 18:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-118-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230062
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE104-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.95
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.95
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.95
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.95
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.3		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.95
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.95
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.95
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.95
06192	Freon 133a	75-88-7	0.52	U	0.52	5.3		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.95
06192	Methylene Chloride	75-09-2	0.96	J	0.25	4.2		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.95

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230062
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE104-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.95
06192	Toluene	108-88-3	2.3	J	0.08	4.2		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.95
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		25.51
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	184	U	184	368		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1

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Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230062
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE104-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	6.5	J	3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	10		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	4.4	J	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.2		5
10138	Di-n-butylphthalate	84-74-2	58	J	33	99		5
10138	Chrysene	218-01-9	6.1	J	1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2		5
10138	Fluoranthene	206-44-0	3.7	U	3.7	9.2		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230062
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE104-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.2		5
10138	Pyrene	129-00-0	3.7	U	3.7	9.2		5

Reporting limits were raised due to interference from the sample matrix.

Di-n-butylphthalate was detected in the method blank at a concentration of 11 ug/kg. The blank value was not subtracted from the analytical result.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.51
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1

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Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230062
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE104-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	22	U	22	66		50
10199	EFH (C15-C20)	n.a.	22	U	22	66		50
10199	EFH (C21-C30)	n.a.	520		22	66		50
10199	EFH (C30 - C40)	n.a.	1,200		22	66		50
10199	EFH (C8-C11)	n.a.	22	U	22	66		50

C30-C40 was detected in the method blank at a concentration of 0.54 mg/kg. The LCS is outside the method limits for several ranges. The sample was re-extracted outside the method hold time. C8-C11 was detected in the re-extracted method blank at a concentration of 0.50. The re-extracted LCS is outside the method limits for the C30-C40 range. All results are reported from the original extract. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230062
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE104-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		5.33	21.2		1
07914	Boron	7440-42-8	6.51		0.944	5.30		1
01650	Calcium	7440-70-2	2,970		6.50	21.2		1
01654	Iron	7439-89-6	17,700		4.99	21.2		1
01656	Lithium	7439-93-2	24.0		0.23	2.1		1
01657	Magnesium	7439-95-4	4,200		2.69	10.6		1
06958	Manganese	7439-96-5	261		0.0827	0.530		1
10145	Phosphorus	7723-14-0	311		0.594	10.6		1
01662	Potassium	7440-09-7	2,780		19.1	53.0		1
01667	Sodium	7440-23-5	115		39.5	106		1
07968	Strontium	7440-24-6	15.2		0.0657	0.530		1
06969	Tin	7440-31-5	2.53	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,080		0.403	1.06		1
10146	Zirconium	7440-67-7	1.93	J	0.891	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0642	U	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.26		0.0856	0.428		2
06126	Barium	7440-39-3	106		0.116	0.428		2
06127	Beryllium	7440-41-7	0.612		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.113		0.0428	0.107		2
06131	Chromium	7440-47-3	17.1		0.128	0.428		2
06132	Cobalt	7440-48-4	5.84		0.0214	0.107		2
06133	Copper	7440-50-8	7.46		0.0706	0.428		2
06135	Lead	7439-92-1	5.40		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.338		0.0535	0.107		2
06139	Nickel	7440-02-0	13.0		0.107	0.428		2
06141	Selenium	7782-49-2	0.143	J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0332	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.303		0.0321	0.107		2
06148	Vanadium	7440-62-2	36.2		0.0235	0.107		2
06149	Zinc	7440-66-6	71.6		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0123	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.88	1.7		1

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Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230062
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE104-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	422		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.68		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-118-SA5A-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 21:24	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110761AA	03/17/2011 11:18	Jason M Long	25.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107423875	03/15/2011 20:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107423875	03/15/2011 20:14	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107423875	03/15/2011 20:14	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107423875	03/15/2011 19:59	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 05:33	Timothy J Trees	10

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Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230062
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE104-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/26/2011 09:55	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011 10:02	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11075A34A	03/17/2011 14:02	Marie D John	25.51
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107423875	03/15/2011 19:59	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 15:55	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110750001A	03/19/2011 09:10	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 13:47	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110750001A	03/16/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/25/2011 03:52	Heather E Williams	50
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 22:20	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110760025A	03/18/2011 19:14	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110820006A	03/26/2011 09:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110820006A	03/23/2011 13:45	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110760025A	03/17/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 21:11	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 23:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 23:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 23:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 23:13	Choon Y Tian	2

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Sample Description: SL-118-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230062
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE104-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 23:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 23:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 23:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 23:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 23:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/22/2011 23:13	David K Beck	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 23:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 23:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 23:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 23:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 23:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 23:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 06:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201B	03/18/2011 21:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201B	03/18/2011 21:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076202A	03/28/2011 21:01	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 17:47	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11082102201A	03/23/2011 16:33	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201B	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076202A	03/17/2011 13:40	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11082102201A	03/23/2011 10:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101A	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401A	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401B	03/24/2011 18:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-117-SA5A-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230063
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE104-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.2		0.95
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.2		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.95
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.2		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.95
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.2		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.95
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.95
06192	Methylene Chloride	75-09-2	1.0	J	0.26	4.2		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.95

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Sample Description: SL-117-SA5A-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230063
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE104-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.95
06192	Toluene	108-88-3	0.09	U	0.09	4.2		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	187	U	187	375		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1

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Sample Description: SL-117-SA5A-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230063
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE104-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.62	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1

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Sample Description: **SL-117-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230063
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE104-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.94
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
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SL117 SDG#: DE104-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.90	U	0.90	2.7		2
10199	EFH (C15-C20)	n.a.	0.92	J	0.90	2.7		2
10199	EFH (C21-C30)	n.a.	29		0.90	2.7		2
10199	EFH (C30 - C40)	n.a.	64		0.90	2.7		2
10199	EFH (C8-C11)	n.a.	0.90	U	0.90	2.7		2

C30-C40 was detected in the method blank at a concentration of 0.54 mg/kg. The LCS is outside the method limits for several ranges. The sample was re-extracted outside the method hold time. C8-C11 was detected in the re-extracted method blank at a concentration of 0.50. The re-extracted LCS is outside the method limits for the C30-C40 range. All results are reported from the original extract. The C21-C30 and C30-C40 results for the re-extraction are 39 mg/kg and 80 mg/kg respectively.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-117-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230063
LLI Group # 1237324
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

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SL117 SDG#: DE104-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		5.49	21.8		1
07914	Boron	7440-42-8	3.30	J	0.971	5.45		1
01650	Calcium	7440-70-2	4,080		6.69	21.8		1
01654	Iron	7439-89-6	19,600		5.14	21.8		1
01656	Lithium	7439-93-2	27.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,910		2.77	10.9		1
06958	Manganese	7439-96-5	275		0.0851	0.545		1
10145	Phosphorus	7723-14-0	413		0.611	10.9		1
01662	Potassium	7440-09-7	2,810		19.6	54.5		1
01667	Sodium	7440-23-5	109	J	40.7	109		1
07968	Strontium	7440-24-6	15.7		0.0676	0.545		1
06969	Tin	7440-31-5	2.76	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,150		0.415	1.09		1
10146	Zirconium	7440-67-7	1.27	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0655	U	0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.85		0.0873	0.436		2
06126	Barium	7440-39-3	87.6		0.118	0.436		2
06127	Beryllium	7440-41-7	0.568		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.126		0.0436	0.109		2
06131	Chromium	7440-47-3	16.1		0.131	0.436		2
06132	Cobalt	7440-48-4	5.21		0.0218	0.109		2
06133	Copper	7440-50-8	7.18		0.0720	0.436		2
06135	Lead	7439-92-1	4.86		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.534		0.0545	0.109		2
06139	Nickel	7440-02-0	12.1		0.109	0.436		2
06141	Selenium	7782-49-2	0.120	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0250	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.302		0.0327	0.109		2
06148	Vanadium	7440-62-2	33.6		0.0240	0.109		2
06149	Zinc	7440-66-6	69.6		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.0		0.90	1.7		1

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SL-117-SA5A-SB-5.0-6.0

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SL117 SDG#: DE104-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	416		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.30		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-117-SA5A-SB-5.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 21:46	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110761AA	03/17/2011 11:38	Jason M Long	21.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107423875	03/15/2011 20:07	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107423875	03/15/2011 20:14	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107423875	03/15/2011 20:14	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107423875	03/15/2011 20:04	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 05:50	Timothy J Trees	10

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Sample Description: **SL-117-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230063
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE104-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/26/2011 10:20	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011 10:34	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11075A34A	03/17/2011 14:41	Marie D John	22.94
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107423875	03/15/2011 20:03	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 16:37	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110750001A	03/19/2011 09:20	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 14:05	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110750001A	03/16/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/25/2011 03:01	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 22:34	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110780020A	03/19/2011 19:14	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110820006A	03/26/2011 11:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110820006A	03/23/2011 13:45	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110780020A	03/19/2011 07:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 21:15	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 23:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 23:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 23:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 23:16	Choon Y Tian	2

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Sample Description: **SL-117-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230063
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE104-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 23:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 23:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 23:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 23:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 23:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 23:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 23:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 23:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 23:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 23:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 23:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 23:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 06:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201B	03/18/2011 21:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201B	03/18/2011 21:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076202A	03/28/2011 21:49	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 18:10	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11082102201A	03/23/2011 16:34	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201B	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076202A	03/17/2011 13:40	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11082102201A	03/23/2011 10:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101A	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401A	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401B	03/24/2011 18:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230064
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE104-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.5		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.5		0.83
06192	Methylene Chloride	75-09-2	2.9	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.83

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Sample Description: SL-001-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230064
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE104-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.83
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.23
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.9	U	18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: **SL-001-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230064
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE104-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1

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Sample Description: SL-001-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230064
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE104-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.26
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230064
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE104-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.93	J	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	3.9		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1

C30-C40 was detected in the method blank at a concentration of 0.54 mg/kg. The LCS is outside the method limits for several ranges. The sample was re-extracted outside the method hold time. C8-C11 was detected in the re-extracted method blank at a concentration of 0.50. The re-extracted LCS is outside the method limits for the C30-C40 range. All results are reported from the original extract. The C21-C30 and C30-C40 results for the re-extraction are ND and 1.3 mg/kg respectively.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1

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SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

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Project Name: SSFL Area IV Collocated Soil Sampling

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SL001 SDG#: DE104-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,000		5.70	22.7		1
07914	Boron	7440-42-8	3.32	J	1.01	5.66		1
01650	Calcium	7440-70-2	2,130		6.94	22.7		1
01654	Iron	7439-89-6	18,900		5.33	22.7		1
01656	Lithium	7439-93-2	22.8		0.25	2.3		1
01657	Magnesium	7439-95-4	3,870		2.88	11.3		1
06958	Manganese	7439-96-5	199		0.0883	0.566		1
10145	Phosphorus	7723-14-0	168		0.634	11.3		1
01662	Potassium	7440-09-7	1,860		20.4	56.6		1
01667	Sodium	7440-23-5	119		42.2	113		1
07968	Strontium	7440-24-6	18.8		0.0702	0.566		1
06969	Tin	7440-31-5	2.75	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,050		0.430	1.13		1
10146	Zirconium	7440-67-7	1.42	J	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0660	U	0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.64		0.0880	0.440		2
06126	Barium	7440-39-3	74.9		0.119	0.440		2
06127	Beryllium	7440-41-7	0.590		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0451	J	0.0440	0.110		2
06131	Chromium	7440-47-3	14.8		0.132	0.440		2
06132	Cobalt	7440-48-4	4.10		0.0220	0.110		2
06133	Copper	7440-50-8	4.75		0.0726	0.440		2
06135	Lead	7439-92-1	4.49		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.344		0.0550	0.110		2
06139	Nickel	7440-02-0	9.33		0.110	0.440		2
06141	Selenium	7782-49-2	0.113	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0508	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.254		0.0330	0.110		2
06148	Vanadium	7440-62-2	30.5		0.0242	0.110		2
06149	Zinc	7440-66-6	41.2		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: **SL-001-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230064
LLI Group # 1237324
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

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SL001 SDG#: DE104-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	449		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-001-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 22:08	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110761AA	03/17/2011 11:58	Jason M Long	23.23
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107423875	03/15/2011 20:12	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107423875	03/15/2011 20:14	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107423875	03/15/2011 20:15	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107423875	03/15/2011 20:09	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 06:07	Timothy J Trees	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/26/2011 10:45	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011 11:05	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11075A34A	03/17/2011 15:17	Marie D John	21.26
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107423875	03/15/2011 20:08	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 18:44	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110750001A	03/19/2011 09:29	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 14:24	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110750001A	03/16/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/25/2011 00:02	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 22:49	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110760025A	03/18/2011 21:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110820006A	03/26/2011 06:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110820006A	03/23/2011 13:45	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110760025A	03/17/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 21:19	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 23:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 23:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 23:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 23:20	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-001-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230064
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE104-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 23:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 23:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 23:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 23:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 23:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 23:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 23:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 23:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 23:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/22/2011 21:45	David K Beck	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 23:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 23:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 06:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201B	03/18/2011 21:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201B	03/18/2011 21:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076202A	03/28/2011 22:13	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 18:21	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11082102201A	03/23/2011 16:36	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201B	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076202A	03/17/2011 13:40	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11082102201A	03/23/2011 10:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101A	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401A	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401B	03/24/2011 18:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **TB-031411 Water**
SSFL Area IV Collocated Soil Sampling
TB-031411

LLI Sample # WW 6230065
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 08:00

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB314 SDG#: DE104-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-031411 Water
SSFL Area IV Collocated Soil Sampling
TB-031411

LLI Sample # WW 6230065
LLI Group # 1237324
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 08:00

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB314 SDG#: DE104-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110772AA	03/18/2011	15:37	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110752AA	03/16/2011	20:26	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110752AA	03/16/2011	20:26	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110772AA	03/18/2011	15:37	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11079A20A	03/21/2011	12:45	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11079A20A	03/21/2011	12:45	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237324
Reported: 04/06/11 at 09:25 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110741AA	Sample number(s): 6230061-6230064									
Acetone	6.7	U	6.7	8.0	ug/kg	104		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	101		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	99		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	118		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	90		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	80		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	79		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	101		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	108		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	112		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	100		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	91		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	96		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	78		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	84		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	98		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	82		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	83		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	91		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	86		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	96		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	70		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	98		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	101		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	98		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	91		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	99		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	119		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	107		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	99		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	100		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	98		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237324
Reported: 04/06/11 at 09:25 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	100		61-134		
Methylene Chloride	0.67	J	0.24	4.0	ug/kg	107		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	110		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	93		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	89		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	102		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	94		77-120		
Toluene	0.11	J	0.08	4.0	ug/kg	99		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	94		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	96		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	86		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	93		80-120		
Batch number: E110752AA	Sample number(s): 6230065									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	96	108	80-123	11	30
Batch number: E110761AA	Sample number(s): 6230061-6230064									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	114	112	70-130	1	30
Batch number: Y110772AA	Sample number(s): 6230065									
Acetone	6	U	6.	20	ug/l	114	110	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	94	93	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	100	97	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	102	99	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	98	95	80-120	3	30
Bromoform	1	U	1.	5	ug/l	78	79	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	88	86	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	111	110	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	95	94	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	96	94	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	90	92	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	105	103	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	92	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	79	81	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	84	84	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	105	103	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	69	72	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	96	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	94	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	61	62	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	91	89	56-126	2	30
Dibromochloromethane	1	U	1.	5	ug/l	90	89	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	93	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	97	96	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	94	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	69	68	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	97	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237324
Reported: 04/06/11 at 09:25 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	117	115	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	87	83	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	93	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	91	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	92	92	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	96	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	102	101	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	98	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	90	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	92	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	94	79-120	2	30
Freon 113	2	U	2.	10	ug/l	85	81	69-128	6	30
Freon 133a	2	U	2.	5	ug/l	96	99	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	90	88	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	99	97	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	94	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	96	95	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	98	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	94	93	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	92	88	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	99	98	80-120	1	30
Styrene	1	U	1.	5	ug/l	85	84	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	97	95	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	90	89	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	94	80-121	5	30
Toluene	0.7	U	0.7	5	ug/l	93	92	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	96	94	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	94	92	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	92	91	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	98	95	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	94	92	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	99	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	98	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	97	96	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	73	74	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	91	91	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	90	90	80-120	1	30
Batch number: 11076SLI026	Sample number(s): 6230062-6230064									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	89		70-130		
Batch number: 11080SLE026	Sample number(s): 6230061-6230064									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	44		15-121		
Benzoic acid	170 U		170.	500	ug/kg	79		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	80		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	94		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	89		79-112		
Carbazole	17	U	17.	170	ug/kg	86		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	78		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	38		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	82		70-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237324
Reported: 04/06/11 at 09:25 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	80		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	72		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	93		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	88		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	41		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	91		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	84		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	82		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	90		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	88		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	82		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	73		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	82		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	88		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	84		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	92		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	86		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	90		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Isophorone	17	U	17.	170	ug/kg	74		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	83		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	84		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	85		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	80		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	59		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	72		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	87		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	63		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	70		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	107		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	82		51-117		
Phenol	17	U	17.	170	ug/kg	79		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	91		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11081SLB026	Sample number(s): 6230061-6230064									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	103		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	106		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	112		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	117		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	130		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	132		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	119		54-142		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237324
Reported: 04/06/11 at 09:25 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	129		65-131		
Di-n-butylphthalate	11	J	6.0	18	ug/kg	126		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	112		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	137		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	123		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	116		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	143		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	113		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	115		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	135*		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	106		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	103		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	101		55-118		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	105		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	105		56-121		
Batch number: 11075A34A	Sample number(s): 6230062-6230064									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	72	83	67-119	14	30
Batch number: 11079A20A	Sample number(s): 6230065									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	127	75-135	7	30
Batch number: 110750002A	Sample number(s): 6230062-6230064									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	117		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	112	112	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	111	111	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	113		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	110		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
HMX	100 U		100.	300	ug/kg	103		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	109		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	101		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	109		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	107		80-120		
PETN	800 U		800.	2,400	ug/kg	117		80-120		
RDX	50	U	50.	120	ug/kg	102		75-131		
Tetryl	61	U	61.	120	ug/kg	105		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 110750001A	Sample number(s): 6230062-6230064									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	105		80-126		
Batch number: 110800023A	Sample number(s): 6230061									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	100		85-115		
Batch number: 110820012A	Sample number(s): 6230061-6230064									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	92	80	36-106	14	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237324
Reported: 04/06/11 at 09:25 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1016	0.33	U	0.33	1.7	ug/kg	98		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	112		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110810023A	Sample number(s): 6230062-6230064									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	118*		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	121*		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	126*		66-113		
EFH (C30 - C40)	0.54	J	0.40	1.2	mg/kg	116*		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	94		66-113		
Batch number: 110750026A	Sample number(s): 6230062-6230064									
Ethanol	100	U	100.	500	ug/kg	95		71-129		
Isopropanol	100	U	100.	500	ug/kg	102		75-125		
Methanol	100	U	100.	500	ug/kg	91		68-129		
Batch number: 110760025A	Sample number(s): 6230062,6230064									
Diethylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Ethylene glycol	8.8	J	5.0	13	mg/kg	107		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Batch number: 110780020A	Sample number(s): 6230063									
Diethylene glycol	5.0	U	5.0	13	mg/kg	114		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	109		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	97		75-125		
Batch number: 110820006A	Sample number(s): 6230062-6230064									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	81		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	78		75-125		
Batch number: 110751026001A	Sample number(s): 6230061-6230064									
Antimony	0.0600	U	0.0600	0.200	mg/kg	95		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	110		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	105		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	101		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	106		80-120		
Lead	0.0105	J	0.0104	0.200	mg/kg	106		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	108		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	102		90-110		
Zinc	0.644	J	0.560	3.00	mg/kg	101		78-122		
Batch number: 110751026001B	Sample number(s): 6230061-6230064									
Selenium	0.0400	U	0.0400	0.400	mg/kg	113		79-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237324
Reported: 04/06/11 at 09:25 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110751026001C	Sample number(s): 6230061-6230064									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	109		78-122		
Batch number: 110751026001D	Sample number(s): 6230061-6230064									
Barium	0.108	U	0.108	0.400	mg/kg	103		79-121		
Batch number: 110755708001	Sample number(s): 6230061-6230064									
Aluminum	5.03	U	5.03	20.0	mg/kg	99		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	98		78-110		
Calcium	8.02	J	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	93		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		81-119		
Phosphorus	1.34	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.44	J	1.00	10.0	mg/kg	98		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	98		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 110755711002	Sample number(s): 6230061-6230064									
Mercury	0.0028	U	0.0028	0.0985	mg/kg	98		88-123		
Batch number: 11076076202A	Sample number(s): 6230061-6230064									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11076495201B	Sample number(s): 6230061-6230064									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11080243201A	Sample number(s): 6230061-6230064									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11082102201A	Sample number(s): 6230062-6230064									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11080039401A	Sample number(s): 6230061-6230064									
18a pH by 9045C						100		95-105		
Batch number: 11080182101A	Sample number(s): 6230061-6230064									
32a OR Potential						100		98-102		
Batch number: 11083162401B	Sample number(s): 6230061-6230064									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

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Quality Control Summary

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Reported: 04/06/11 at 09:25 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110741AA	Sample number(s): 6230061-6230064 UNSPK: P228978								
Acetone	111	93	15-210	3	30				
Benzene	106	109	55-143	24	30				
Bromobenzene	99	108	43-139	28	30				
Bromochloromethane	125	121	60-137	18	30				
Bromodichloromethane	93	95	53-136	23	30				
Bromoform	80	77	38-124	17	30				
Bromomethane	82	92	42-168	32*	30				
2-Butanone	101	86	37-163	5	30				
n-Butylbenzene	107	118	30-146	30	30				
sec-Butylbenzene	110	121	33-157	30	30				
tert-Butylbenzene	101	108	41-152	27	30				
Carbon Tetrachloride	97	103	45-153	26	30				
Chlorobenzene	98	104	49-135	27	30				
Chloroethane	84	94	39-152	32*	30				
2-Chloroethyl Vinyl Ether	80	80	32-139	21	30				
Chloroform	104	107	61-142	23	30				
Chloromethane	89	95	51-163	27	30				
2-Chlorotoluene	101	111	42-146	30	30				
4-Chlorotoluene	99	108	39-145	29	30				
Chlorotrifluoroethene	87	93	70-130	16	30				
1,2-Dibromo-3-chloropropane	84	75	30-139	9	30				
Dibromochloromethane	85	86	51-128	22	30				
1,2-Dibromoethane	97	94	54-129	18	30				
Dibromomethane	97	96	57-130	19	30				
1,2-Dichlorobenzene	92	98	36-133	26	30				
1,3-Dichlorobenzene	95	104	34-134	29	30				
1,4-Dichlorobenzene	94	102	35-136	29	30				
Dichlorodifluoromethane	76	82	26-151	28	30				
1,1-Dichloroethane	104	109	63-142	25	30				
1,2-Dichloroethane	101	99	68-131	19	30				
1,1-Dichloroethene	121	125	61-149	23	30				
cis-1,2-Dichloroethene	102	107	60-136	25	30				
trans-1,2-Dichloroethene	108	112	59-142	24	30				
1,2-Dichloropropane	102	105	62-135	23	30				
1,3-Dichloropropane	99	98	58-129	19	30				
2,2-Dichloropropane	96	101	53-147	26	30				
1,1-Dichloropropene	107	111	54-145	24	30				
cis-1,3-Dichloropropene	90	93	51-131	24	30				
trans-1,3-Dichloropropene	86	88	49-129	22	30				
Ethylbenzene	102	108	44-141	27	30				
Freon 113	131	134	56-156	23	30				
Freon 133a	116	118	61-131	10	30				
Hexachlorobutadiene	92	97	10-155	26	30				
2-Hexanone	99	86	32-160	7	30				
Isopropylbenzene	100	105	38-144	26	30				
p-Isopropyltoluene	107	117	29-152	29	30				
Methyl Tertiary Butyl Ether	96	94	55-129	18	30				
4-Methyl-2-pentanone	98	85	46-139	6	30				
Methylene Chloride	115	113	61-141	18	30				
n-Propylbenzene	111	125	39-157	32*	30				
Styrene	96	101	35-134	26	30				
1,1,1,2-Tetrachloroethane	89	91	52-130	24	30				

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Quality Control Summary

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Reported: 04/06/11 at 09:25 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,2,2-Tetrachloroethane	101	95	40-152	15	30				
Tetrachloroethene	101	103	42-149	23	30				
Toluene	102	107	50-146	25	30				
1,2,3-Trichlorobenzene	78	80	10-140	22	30				
1,2,4-Trichlorobenzene	82	84	10-136	23	30				
1,1,1-Trichloroethane	99	105	64-142	26	30				
1,1,2-Trichloroethane	98	96	54-139	19	30				
Trichloroethene	103	104	53-144	22	30				
Trichlorofluoromethane	105	113	47-163	27	30				
1,2,3-Trichloropropane	101	95	45-154	14	30				
1,2,4-Trimethylbenzene	102	112	37-149	30	30				
1,3,5-Trimethylbenzene	103	113	38-150	29	30				
Vinyl Chloride	93	100	50-154	28	30				
m+p-Xylene	99	106	44-137	28	30				
o-Xylene	94	101	42-137	27	30				
Batch number: 11076SLI026	Sample number(s): 6230062-6230064 UNSPK: P228978								
N-Nitrosodimethylamine	68*	67*	70-130	2	30				
Batch number: 11080SLE026	Sample number(s): 6230061-6230064 UNSPK: 6230061								
Aniline	44	48	35-95	9	30				
Benzidine	43	46	35-141	7	30				
Benzoic acid	48	45	10-173	6	30				
Benzyl alcohol	76	77	67-115	3	30				
4-Bromophenyl-phenylether	90	90	67-129	2	30				
Butylbenzylphthalate	87	87	73-134	1	30				
Di-n-butylphthalate	85	86	67-123	2	30				
Carbazole	87	89	64-120	3	30				
4-Chloro-3-methylphenol	71*	73*	76-110	4	30				
4-Chloroaniline	49	53	23-95	8	30				
bis(2-Chloroethoxy)methane	79	78	75-104	1	30				
bis(2-Chloroethyl)ether	76	77	60-116	2	30				
bis(2-Chloroisopropyl)ether	65	67	55-142	3	30				
2-Chloronaphthalene	74	73	50-141	1	30				
2-Chlorophenol	84	86	73-121	3	30				
4-Chlorophenyl-phenylether	85	85	80-109	1	30				
Dibenzofuran	86	85	71-112	1	30				
1,2-Dichlorobenzene	82	84	66-108	3	30				
1,3-Dichlorobenzene	80	81	63-109	2	30				
1,4-Dichlorobenzene	81	82	70-100	2	30				
3,3'-Dichlorobenzidine	69	74	16-119	8	30				
2,4-Dichlorophenol	85	85	78-117	1	30				
Diethylphthalate	79	79	66-118	1	30				
2,4-Dimethylphenol	77*	78	78-110	2	30				
3,5-Dimethylphenol	86	86	70-130	2	30				
Dimethylphthalate	84	84	64-118	1	30				
4,6-Dinitro-2-methylphenol	28	24	24-116	15	30				
2,4-Dinitrophenol	20	16*	20-143	20	30				
2,4-Dinitrotoluene	72*	72*	73-113	0	30				
2,6-Dinitrotoluene	77	80	69-123	4	30				
1,2-Diphenylhydrazine	77	78	71-129	2	30				
bis(2-Ethylhexyl)phthalate	86	87	63-122	1	30				
Hexachlorobenzene	91	92	77-114	1	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorobutadiene	88	85	62-120	2	30				
Hexachlorocyclopentadiene	29	23	10-153	24	30				
Hexachloroethane	61	63	57-109	3	30				
Isophorone	74	73	73-102	0	30				
2-Methylphenol	76	78	75-111	4	30				
4-Methylphenol	78	79	71-111	3	30				
2-Nitroaniline	89	91	67-125	2	30				
3-Nitroaniline	85	85	59-122	1	30				
4-Nitroaniline	64	65	52-112	4	30				
Nitrobenzene	72	72	72-106	1	30				
2-Nitrophenol	78	79	74-115	2	30				
4-Nitrophenol	63	63	54-113	1	30				
N-Nitroso-di-n-propylamine	65	66	60-116	3	30				
N-Nitrosodiphenylamine	93	94	86-145	2	30				
Di-n-octylphthalate	97	97	56-126	1	30				
Pentachlorophenol	78	78	28-127	1	30				
Phenol	74	76	58-126	4	30				
1,2,4-Trichlorobenzene	89	88	72-115	1	30				
2,4,5-Trichlorophenol	87	85	78-109	1	30				
2,4,6-Trichlorophenol	90	89	77-115	0	30				
Batch number: 11081SLB026	Sample number(s): 6230061-6230064 UNSPK: 6230061								
Acenaphthene	104	94	63-105	9	30				
Acenaphthylene	104	96	67-114	8	30				
Anthracene	100	94	60-122	6	30				
Benzo(a)anthracene	97	92	59-128	5	30				
Benzo(a)pyrene	106	100	45-138	6	30				
Benzo(b)fluoranthene	105	99	43-155	5	30				
Benzo(g,h,i)perylene	118	112	33-141	5	30				
Benzo(k)fluoranthene	106	98	42-144	7	30				
Butylbenzylphthalate	126	120	57-173	5	30				
Di-n-butylphthalate	89	84	65-148	4	30				
Chrysene	93	89	48-134	5	30				
Dibenz(a,h)anthracene	132	125	22-133	5	30				
Diethylphthalate	116	108	70-136	7	30				
Dimethylphthalate	114	105	74-118	8	30				
Bis(2-Ethylhexyl)phthalate	141	134	39-167	6	30				
Fluoranthene	92	83	26-166	7	30				
Fluorene	106	98	66-122	7	30				
Indeno(1,2,3-cd)pyrene	127	120	21-143	6	30				
1-Methylnaphthalene	104	95	72-123	9	30				
2-Methylnaphthalene	96	88	64-103	9	30				
Naphthalene	100	91	61-102	10	30				
N-Nitrosodimethylamine	101	92	48-113	9	30				
Phenanthrene	76	69	12-165	7	30				
Pyrene	72	68	15-153	4	30				
Batch number: 110750002A	Sample number(s): 6230062-6230064 UNSPK: P228978								
4-Amino-2,6-Dinitrotoluene	106	115	80-127	9	50				
2-Amino-4,6-Dinitrotoluene	102	110	80-137	10	50				
1,3-Dinitrobenzene	102	110	38-166	9	50				
2,4-Dinitrotoluene	99	107	80-131	9	50				
2,6-Dinitrotoluene	104	114	80-127	12	50				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
HMX	83	98	63-128	19	50				
Nitrobenzene	99	105	80-125	8	50				
Nitroglycerin	96	103	80-120	9	50				
2-Nitrotoluene	100	106	80-122	8	50				
3-Nitrotoluene	100	107	72-119	8	50				
4-Nitrotoluene	99	105	80-125	8	50				
PETN	105	116	80-121	12	50				
RDX	89	89	75-129	1	50				
Tetryl	84	93	55-174	12	50				
1,3,5-Trinitrobenzene	137*	109	82-126	21	50				
2,4,6-Trinitrotoluene	103	111	82-130	9	50				
Batch number: 110750001A	Sample number(s): 6230062-6230064 UNSPK: P229290								
25a Formaldehyde 8315A	106	106	80-120	1	50				
Batch number: 110800023A	Sample number(s): 6230061 UNSPK: P229292								
6a Perchlorate EPA 6850	98	103	80-120	5	20				
Batch number: 110820012A	Sample number(s): 6230061-6230064 UNSPK: 6230061								
PCB-1016	92	107	29-146	14	50				
PCB-1260	104	110	39-149	6	50				
Batch number: 110810023A	Sample number(s): 6230062-6230064 UNSPK: P228978								
EFH (C12-C14)	101	108	49-123	8	20				
EFH (C15-C20)	8*	15*	49-123	5	20				
EFH (C21-C30)	-28*	-37*	49-123	4	20				
EFH (C30 - C40)	-485 (2)	-518 (2)	49-123	9	20				
EFH (C8-C11)	77	81	49-123	6	20				
Batch number: 110750026A	Sample number(s): 6230062-6230064 UNSPK: P228978								
Ethanol	79	77	48-130	2	20				
Isopropanol	85	83	12-149	2	20				
Methanol	81	79	43-138	3	20				
Batch number: 110760025A	Sample number(s): 6230062,6230064 UNSPK: 6230062								
Diethylene glycol	129*	140*	59-109	8	20				
Ethylene glycol	132*	145*	63-107	10	20				
Propylene glycol	132*	140*	63-107	6	20				
Batch number: 110780020A	Sample number(s): 6230063 UNSPK: P233377								
Diethylene glycol	54*	79	59-109	39*	20				
Ethylene glycol	82	94	63-107	13	20				
Propylene glycol	85	92	63-107	8	20				
Batch number: 110820006A	Sample number(s): 6230062-6230064 UNSPK: 6230062								
m-Terphenyl	72*	72*	75-125	0	20				
o-Terphenyl	93	92	75-125	1	20				
p-Terphenyl	72*	69*	75-125	3	20				
Batch number: 110751026001A	Sample number(s): 6230061-6230064 UNSPK: P228978 BKG: P228978								
Antimony	50*	45*	75-125	10	20	0.224	0.155 J	36* (1)	20
Arsenic	105	107	75-125	0	20	7.19	5.70	23*	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Beryllium	102	99	75-125	2	20	0.883	0.733	18	20
Cadmium	128*	108	75-125	15	20	0.344	0.210	49* (1)	20
Chromium	96	89	75-125	2	20	34.2	28.1	20	20
Cobalt	105	94	75-125	12	20	7.97	7.62	4	20
Copper	95	89	75-125	4	20	13.6	12.3	10	20
Lead	162*	96	75-125	14	20	10.3	8.72	16	20
Nickel	160*	110	75-125	15	20	21.4	18.1	17	20
Silver	117	118	75-125	1	20	0.0603 J	0.0471 J	25* (1)	20
Thallium	128*	95	75-125	18	20	0.323	0.250	25* (1)	20
Vanadium	119 (2)	96 (2)	75-125	3	20	63.4	53.0	18	20
Zinc	66 (2)	69 (2)	75-125	0	20	63.4	54.4	15	20
Batch number: 110751026001B	Sample number(s): 6230061-6230064 UNSPK: P228978 BKG: P228978								
Selenium	111	106	75-125	7	20	0.125 J	0.0660 J	62* (1)	20
Batch number: 110751026001C	Sample number(s): 6230061-6230064 UNSPK: P228978 BKG: P228978								
Molybdenum	120	113	75-125	8	20	0.270	0.240	12 (1)	20
Batch number: 110751026001D	Sample number(s): 6230061-6230064 UNSPK: P228978 BKG: P228978								
Barium	134 (2)	116 (2)	75-125	2	20	117	92.8	23*	20
Batch number: 110755708001	Sample number(s): 6230061-6230064 UNSPK: P228978 BKG: P228978								
Aluminum	1171 (2)	414 (2)	75-125	5	20	28,700	27,700	3	20
Boron	99	99	84-115	2	20	10.7	10.2	5 (1)	20
Calcium	6342 (2)	7873 (2)	75-125	12	20	27,700	33,300	18	20
Iron	-650 (2)	-2631 (2)	75-125	8	20	26,400	25,500	4	20
Lithium	104	103	82-114	2	20	25.5	25.1	2	20
Magnesium	-50 (2)	-194 (2)	75-125	5	20	6,430	6,210	3	20
Manganese	-167 (2)	-131 (2)	75-125	6	20	350	356	2	20
Phosphorus	77	89	75-125	5	20	190	209	9	20
Potassium	118	110	75-125	1	20	2,650	2,690	2	20
Sodium	100	99	75-125	2	20	219	211	4 (1)	20
Strontium	102	93	75-115	4	20	52.0	52.4	1	20
Tin	84	84	80-110	3	20	2.40 J	2.16 J	10 (1)	20
Titanium	163 (2)	138 (2)	75-125	1	20	1,210	1,190	2	20
Zirconium	95	96	75-125	3	20	4.30 J	5.09	17 (1)	20
Batch number: 110755711002	Sample number(s): 6230061-6230064 UNSPK: P228978 BKG: P228978								
Mercury	108	103	65-135	7	20	0.0071 J	0.0110 J	43* (1)	20
Batch number: 11076076202A	Sample number(s): 6230061-6230064 UNSPK: 6230061 BKG: 6230061								
7a Perchlorate EPA 314.0	102		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11076495201B	Sample number(s): 6230061-6230064 UNSPK: 6230061 BKG: 6230061								
11a Anions by 300.0 - Fluoride	89		80-120			1.4	1.4	2 (1)	20
11a Anions by 300.0 - Nitrate	109		80-120			0.80 U	1.1 J	200* (1)	20
Batch number: 11080243201A	Sample number(s): 6230061-6230064 UNSPK: 6230061 BKG: 6230061								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237324
Reported: 04/06/11 at 09:25 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
3a Cr VI by EPA 7199	92		75-125			0.28	J	0.20	U	200* (1)	20
Batch number: 11082102201A	Sample number(s): 6230062-6230064 UNSPK: P228984 BKG: P228984										
17a Cyanide by 9012B	104		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11080039401A	Sample number(s): 6230061-6230064 BKG: 6230061										
18a pH by 9045C						6.93		6.92		0	1
Batch number: 11080182101A	Sample number(s): 6230061-6230064 BKG: 6230061										
32a OR Potential						390		389		0	6
Batch number: 11083162401B	Sample number(s): 6230061-6230064 BKG: 6230064										
Moisture Content by 160.3						11.7		11.3		4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110741AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6230061	97	100	97	93
6230062	97	97	102	87
6230063	97	98	98	93
6230064	100	105	98	95
Blank	98	101	99	94
LCS	99	100	102	98
MS	99	103	101	101
MSD	96	93	101	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110752AA

	Toluene-d8
6230065	97
Blank	97
LCS	97
LCSD	99
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110761AA

	Toluene-d8
6230061	94

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237324
Reported: 04/06/11 at 09:25 AM

Surrogate Quality Control

6230062	97
6230063	94
6230064	94
Blank	94
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110772AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6230065	106	100	99	96
Blank	105	97	101	97
LCS	108	99	101	99
LCSD	105	101	100	98
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11076SLI026

	N-Nitrosodimethylamine-d6
6230062	97
6230063	97
6230064	112
Blank	94
LCS	90
MS	104
MSD	100
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11080SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6230061	78	84	83	71	91	80
6230062	84	90	89	74	98	82
6230063	73	79	83	68	88	79
6230064	76	83	81	69	89	78
Blank	64	68	71	57	72	77
LCS	80	85	87	70	93	90
MS	77	85	85	73	92	81
MSD	80	87	86	73	93	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11081SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6230061	104	101	104
6230062	102	97	74
6230063	99	93	90

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237324
Reported: 04/06/11 at 09:25 AM

Surrogate Quality Control

6230064	95	92	88
Blank	102	96	105
LCS	117	106	111
MS	112	104	100
MSD	102	94	96
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11075A34A

	Trifluorotoluene-F
6230062	77
6230063	83
6230064	76
Blank	81
LCS	92
LCSD	92
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11079A20A

	Trifluorotoluene-F
6230065	76
Blank	80
LCS	124
LCSD	122
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110750001A

	Butyraldehyde
6230062	123
6230063	124
6230064	127*
Blank	105
LCS	130*
MS	119
MSD	134*
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 110750002A

	2-Nitro-m-xylene
6230062	108
6230063	109
6230064	109
Blank	114
LCS	121
LCSD	117
MS	114

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237324
Reported: 04/06/11 at 09:25 AM

Surrogate Quality Control

MSD	114	
Limits:	80-146	

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110820012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6230061	104	110
6230062	84	70
6230063	105	83
6230064	103	101
Blank	106	98
LCS	103	104
LCSD	102	108
MS	89	101
MSD	109	108
Limits:	53-139	45-120

Analysis Name: 19a Alcohols by 8015B
Batch number: 110750026A

	Acetone
6230062	93
6230063	92
6230064	90
Blank	108
LCS	106
MS	85
MSD	83
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 110760025A

	Tetramethylene glycol
6230062	83
6230064	78
Blank	100
LCS	101
MS	128
MSD	123
Limits:	29-137

Analysis Name: 21a Glycols by 8015B
Batch number: 110780020A

	Tetramethylene glycol
6230063	58
Blank	102
LCS	101
MS	98
MSD	90

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237324
Reported: 04/06/11 at 09:25 AM

Surrogate Quality Control

Limits: 29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110810023A

	Chlorobenzene	Orthoterphenyl
6230062	92	118
6230063	95	106
6230064	96	109
Blank	97	110
LCS	95	115
MS	83	106
MSD	89	114
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110820006A

	n-Triacontane-d62
6230062	127
6230063	71
6230064	70
Blank	75
LCS	74
MS	96
MSD	88
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

A# 15013 G# 12.31529 SA(1.500).1.0

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-121-SA5A-SB-2.0-3.0	03.14.11	1202	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													Amended COC
SL-121-SA5A-SB-2.5	03.14.11	1157	SOIL	NONE	4-Encores										X	X											
SL-118-SA5A-SB-2.5-3.5	03.14.11	1033	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-118-SA5A-SB-3.0	03.14.11	1028	SOIL	NONE	5-Encores										X	X	X										
SL-117-SA5A-SB-5.0-6.0	03.14.11	0914	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-117-SA5A-SB-5.5	03.14.11	0910	SOIL	NONE	5-Encores										X	X	X										
SL-001-SA5A-SB-4.0-5.0	03.14.11	1457	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-001-SA5A-SB-4.5	03.14.11	1452	SOIL	NONE	5-Encores										X	X	X										
TB-031411	03.14.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	**Date/Time** 03/14/2011 / 16:00	**Received for Laboratory by: (*Signature*)**	**Laboratory:** Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)** 8695 1432 5452	

13013 1237324 6230061-65

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde / EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-121-SA5A-SB-2.0-3.0	03.14.11	1202	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-121-SA5A-SB-2.5	03.14.11	1157	SOIL	NONE	4-Encores										X	X											
SL-118-SA5A-SB-2.5-3.5	03.14.11	1033	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-118-SA5A-SB-3.0	03.14.11	1028	SOIL	NONE	5-Encores										X	X	X										
SL-117-SA5A-SB-5.0-6.0	03.14.11	0914	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-117-SA5A-SB-5.5	03.14.11	0910	SOIL	NONE	5-Encores										X	X	X										
SL-001-SA5A-SB-4.0-5.0	03.14.11	1457	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-001-SA5A-SB-4.5	03.14.11	1452	SOIL	NONE	15-Encores										X	X	X										
TB-031411	03.14.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

3/14/11

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	03/14/2011 / 16:00	3/15/11 930	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1432 5452	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/15/2011
Group Number: 1237325
SDG: DX062
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-121-SA5A-SB-2.0-3.0 Soil	6230066
SL-118-SA5A-SB-2.5-3.5 Soil	6230067
SL-117-SA5A-SB-5.0-6.0 Soil	6230068
SL-001-SA5A-SB-4.0-5.0 Soil	6230069

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-121-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230066
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD121 SDG#: DX062-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230066
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD121 SDG#: DX062-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0400	U	0.0400	1.08	1
11031	12378-PeCDD	40321-76-4	0.0530	JBQ	0.0406	5.40	1
11031	123478-HxCDD	39227-28-6	0.0853	J	0.0428	5.40	1
11031	123678-HxCDD	57653-85-7	0.112	JB	0.0419	5.40	1
11031	123789-HxCDD	19408-74-3	0.103	JBQ	0.0386	5.40	1
11031	1234678-HpCDD	35822-46-9	4.44	JB	0.0550	5.40	1
11031	OCDD	3268-87-9	41.6	B	0.0632	10.8	1
11031	2378-TCDF	51207-31-9	0.0624	U	0.0624	1.08	1
11031	12378-PeCDF	57117-41-6	0.257	JBQ	0.0287	5.40	1
11031	23478-PeCDF	57117-31-4	0.162	JB	0.0276	5.40	1
11031	123478-HxCDF	70648-26-9	0.236	JB	0.0488	5.40	1
11031	123678-HxCDF	57117-44-9	0.155	JB	0.0379	5.40	1
11031	123789-HxCDF	72918-21-9	0.134	JB	0.0362	5.40	1
11031	234678-HxCDF	60851-34-5	0.243	JB	0.0296	5.40	1
11031	1234678-HpCDF	67562-39-4	0.848	JB	0.0443	5.40	1
11031	1234789-HpCDF	55673-89-7	0.186	JB	0.0464	5.40	1
11031	OCDF	39001-02-0	1.17	JBQ	0.0653	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230066
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD121 SDG#: DX062-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230066
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD121 SDG#: DX062-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 13:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401B	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230067
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD118 SDG#: DX062-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230067
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD118 SDG#: DX062-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0270 U	0.0270	1.10	1
11031	12378-PeCDD	40321-76-4	0.0681 JBQ	0.0235	5.51	1
11031	123478-HxCDD	39227-28-6	0.0438 JQ	0.0280	5.51	1
11031	123678-HxCDD	57653-85-7	0.128 JB	0.0288	5.51	1
11031	123789-HxCDD	19408-74-3	0.181 JB	0.0281	5.51	1
11031	1234678-HpCDD	35822-46-9	1.55 JB	0.0387	5.51	1
11031	OCDD	3268-87-9	16.9 B	0.0482	11.0	1
11031	2378-TCDF	51207-31-9	0.0265 JBQ	0.0243	1.10	1
11031	12378-PeCDF	57117-41-6	0.0891 JB	0.0151	5.51	1
11031	23478-PeCDF	57117-31-4	0.119 JB	0.0144	5.51	1
11031	123478-HxCDF	70648-26-9	0.125 JB	0.0298	5.51	1
11031	123678-HxCDF	57117-44-9	0.0974 JB	0.0236	5.51	1
11031	123789-HxCDF	72918-21-9	0.115 JB	0.0218	5.51	1
11031	234678-HxCDF	60851-34-5	0.131 JB	0.0198	5.51	1
11031	1234678-HpCDF	67562-39-4	0.502 JB	0.0286	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0852 JB	0.0283	5.51	1
11031	OCDF	39001-02-0	0.639 JB	0.0421	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	93	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230067
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD118 SDG#: DX062-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230067
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD118 SDG#: DX062-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 14:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401B	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-117-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230068
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD117 SDG#: DX062-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-117-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230068
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD117 SDG#: DX062-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0321 J	0.0274	1.12	1
11031	12378-PeCDD	40321-76-4	0.0501 JBQ	0.0275	5.62	1
11031	123478-HxCDD	39227-28-6	0.0270 U	0.0270	5.62	1
11031	123678-HxCDD	57653-85-7	0.0664 JB	0.0283	5.62	1
11031	123789-HxCDD	19408-74-3	0.103 JB	0.0270	5.62	1
11031	1234678-HpCDD	35822-46-9	0.479 JB	0.0360	5.62	1
11031	OCDD	3268-87-9	2.99 JB	0.0407	11.2	1
11031	2378-TCDF	51207-31-9	0.0402 JB	0.0213	1.12	1
11031	12378-PeCDF	57117-41-6	0.0908 JB	0.0142	5.62	1
11031	23478-PeCDF	57117-31-4	0.133 JB	0.0139	5.62	1
11031	123478-HxCDF	70648-26-9	0.132 JBQ	0.0220	5.62	1
11031	123678-HxCDF	57117-44-9	0.0692 JB	0.0194	5.62	1
11031	123789-HxCDF	72918-21-9	0.0953 JBQ	0.0217	5.62	1
11031	234678-HxCDF	60851-34-5	0.120 JBQ	0.0193	5.62	1
11031	1234678-HpCDF	67562-39-4	0.363 JB	0.0193	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0819 JB	0.0238	5.62	1
11031	OCDF	39001-02-0	0.326 JB	0.0406	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	94	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230068
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD117 SDG#: DX062-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230068
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD117 SDG#: DX062-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 15:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401B	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230069
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX062-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230069
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX062-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0326 U	0.0326	1.13	1
11031	12378-PeCDD	40321-76-4	0.0378 JBQ	0.0265	5.66	1
11031	123478-HxCDD	39227-28-6	0.0350 J	0.0233	5.66	1
11031	123678-HxCDD	57653-85-7	0.0644 JBQ	0.0222	5.66	1
11031	123789-HxCDD	19408-74-3	0.0499 JBQ	0.0224	5.66	1
11031	1234678-HpCDD	35822-46-9	0.424 JB	0.0362	5.66	1
11031	OCDD	3268-87-9	3.10 JB	0.0481	11.3	1
11031	2378-TCDF	51207-31-9	0.0317 U	0.0317	1.13	1
11031	12378-PeCDF	57117-41-6	0.0246 JBQ	0.0147	5.66	1
11031	23478-PeCDF	57117-31-4	0.115 JB	0.0157	5.66	1
11031	123478-HxCDF	70648-26-9	0.0464 JB	0.0308	5.66	1
11031	123678-HxCDF	57117-44-9	0.0644 JBQ	0.0219	5.66	1
11031	123789-HxCDF	72918-21-9	0.0901 JBQ	0.0203	5.66	1
11031	234678-HxCDF	60851-34-5	0.122 JB	0.0166	5.66	1
11031	1234678-HpCDF	67562-39-4	0.330 JB	0.0256	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0604 JB	0.0268	5.66	1
11031	OCDF	39001-02-0	0.429 JB	0.0472	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230069
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX062-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230069
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX062-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 16:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401B	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237325
Reported: 04/06/11 at 10:14 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11083162401B	Sample number(s): 6230066-6230069								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11090001	Sample number(s): 6230066-6230069								
2378-TCDD	0.0299 U	0.0299	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0588 J	0.0279	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0229 U	0.0229	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0329 J	0.0229	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0392 J	0.0224	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.351 J	0.0348	5.00	ng/kg	90		70-140		
OCDD	0.634 J	0.0353	10.0	ng/kg	91		78-144		
2378-TCDF	0.0440 J	0.0269	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0506 J	0.0165	5.00	ng/kg	92		80-134		
23478-PeCDF	0.169 J	0.0160	5.00	ng/kg	92		68-160		
123478-HxCDF	0.135 J	0.0277	5.00	ng/kg	93		72-134		
123678-HxCDF	0.119 J	0.0219	5.00	ng/kg	94		84-130		
123789-HxCDF	0.116 J	0.0240	5.00	ng/kg	93		78-130		
234678-HxCDF	0.255 J	0.0209	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.742 J	0.0173	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.112 J	0.0206	5.00	ng/kg	91		78-138		
OCDF	0.496 J	0.0336	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11083162401B	Sample number(s): 6230066-6230069					BKG: P230064			
Moisture Content by 160.3						11.7	11.3	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237325
Reported: 04/06/11 at 10:14 PM

Surrogate Quality Control

Batch number: 11090001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6230066	68	82	53	68	81	75
6230067	82	95	65	79	92	89
6230068	76	91	85	94	90	85
6230069	72	80	49	66	88	81
Blank	77	82	66	81	83	82
OPR	73	73	49	65	76	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6230066	64	66	56	89	80	72
6230067	70	78	66	87	91	83
6230068	87	78	68	88	85	85
6230069	66	68	60	79	79	78
Blank	79	74	68	100	78	75
OPR	62	66	59	85	76	65
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6230066	75	76	67	60	77	87
6230067	86	84	73	65	93	99
6230068	83	83	75	70	91	102
6230069	84	82	68	63	77	91
Blank	77	78	70	67	79	87
OPR	69	73	65	62	76	83
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1237325 6230066-69

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-121-SA5A-SB-2.0-3.0	03.14.11	1202	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-121-SA5A-SB-2.5	03.14.11	1157	SOIL	NONE	4-Encores										X	X											
SL-118-SA5A-SB-2.5-3.5	03.14.11	1033	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-118-SA5A-SB-3.0	03.14.11	1028	SOIL	NONE	5-Encores										X	X	X										
SL-117-SA5A-SB-5.0-6.0	03.14.11	0914	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-117-SA5A-SB-5.5	03.14.11	0910	SOIL	NONE	5-Encores										X	X	X										
SL-001-SA5A-SB-4.0-5.0	03.14.11	1457	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-001-SA5A-SB-4.5	03.14.11	1452	SOIL	NONE	15-Encores										X	X	X										
TB-031411	03.14.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

3/14/11

Relinquished by: (Signature) — Date/Time: 03/14/2011 / 16:00

Received by: (Signature) — Date/Time:

Received for Laboratory by: (Signature) — 3/15/11 930

Airbill No.(s): 8695 1432 5452

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/16/2011
Group Number: 1237534
SDG: DE105
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-137-SA5A-SB-4.0-5.0 Soil	6230971
SL-132-SA5A-SB-2.0-3.0 Soil	6230972
SL-138-SA5A-SB-4.0-5.0 Soil	6230973
EB07-SA5A-031511 Water	6230974
TB-031511 Water	6230975

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-137-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SB-4.0-5.0

LLI Sample # SW 6230971
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:19

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-1 SDG#: DE105-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.3		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.9
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.9
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.2		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.9
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.2		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.2		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.2		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.9
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.2		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.9
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.9
06192	Ethylbenzene	100-41-4	0.14	J	0.06	4.2		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.9
06192	Methylene Chloride	75-09-2	3.4	J	0.25	4.2		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-137-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SB-4.0-5.0

LLI Sample # SW 6230971
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:19

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-1 SDG#: DE105-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.9
06192	m+p-Xylene	179601-23-1	0.49	J	0.18	4.2		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		23.85
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	41.7		19.3	38.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

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Sample Description: **SL-137-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SB-4.0-5.0

LLI Sample # SW 6230971
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:19

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-1 SDG#: DE105-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1

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Sample Description: SL-137-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SB-4.0-5.0

LLI Sample # SW 6230971
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:19

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-1 SDG#: DE105-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.67
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SB-4.0-5.0

LLI Sample # SW 6230971
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-1 SDG#: DE105-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.8		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,200		5.70	22.7		1
07914	Boron	7440-42-8	2.16	J	1.01	5.67		1

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Sample Description: **SL-137-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SB-4.0-5.0

LLI Sample # SW 6230971
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:19

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-1 SDG#: DE105-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,150		6.95	22.7		1
01654	Iron	7439-89-6	23,700		5.34	22.7		1
01656	Lithium	7439-93-2	24.8		0.25	2.3		1
01657	Magnesium	7439-95-4	4,270		2.88	11.3		1
06958	Manganese	7439-96-5	283		0.0884	0.567		1
10145	Phosphorus	7723-14-0	175		0.635	11.3		1
01662	Potassium	7440-09-7	1,750		20.4	56.7		1
01667	Sodium	7440-23-5	151		42.3	113		1
07968	Strontium	7440-24-6	18.1		0.0703	0.567		1
06969	Tin	7440-31-5	3.19	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,300		0.431	1.13		1
10146	Zirconium	7440-67-7	2.48	J	0.952	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0687	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.78		0.0916	0.458		2
06126	Barium	7440-39-3	45.1		0.124	0.458		2
06127	Beryllium	7440-41-7	0.727		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.0458	U	0.0458	0.114		2
06131	Chromium	7440-47-3	18.1		0.137	0.458		2
06132	Cobalt	7440-48-4	3.02		0.0229	0.114		2
06133	Copper	7440-50-8	5.91		0.0755	0.458		2
06135	Lead	7439-92-1	5.45		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.404		0.0572	0.114		2
06139	Nickel	7440-02-0	7.77		0.114	0.458		2
06141	Selenium	7782-49-2	0.119	J	0.0458	0.458		2
06142	Silver	7440-22-4	0.0256	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.294		0.0343	0.114		2
06148	Vanadium	7440-62-2	40.1		0.0252	0.114		2
06149	Zinc	7440-66-6	39.7		0.641	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0088	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.2		1

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Sample Description: SL-137-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SB-4.0-5.0

LLI Sample # SW 6230971
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:19

Submitted: 03/16/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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105-1 SDG#: DE105-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	455		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	5.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-137-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110761AA	03/17/2011 14:59	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110761AA	03/17/2011 12:18	Jason M Long	23.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107523880	03/16/2011 14:19	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107523880	03/16/2011 14:30	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107523880	03/16/2011 14:30	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107523880	03/16/2011 14:22	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11082SLE026	04/01/2011 09:33	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/29/2011 05:44	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011 11:37	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11082SLE026	03/24/2011 04:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011 03:00	Sherry L Morrow	1

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Sample Description: **SL-137-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SB-4.0-5.0

LLI Sample # SW 6230971
LLI Group # 1237534
Account # 13013

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105-1 SDG#: DE105-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11075A34A	03/18/2011 00:14	Marie D John	23.67
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107523880	03/16/2011 14:19	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/26/2011 17:43	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/23/2011 21:20	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 14:42	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 13:38	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 23:04	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110760025A	03/18/2011 21:52	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110820006A	03/26/2011 06:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110820006A	03/23/2011 13:45	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110760025A	03/17/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
07914	Boron	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
01650	Calcium	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
01654	Iron	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
01656	Lithium	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
06958	Manganese	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
01662	Potassium	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
01667	Sodium	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
07968	Strontium	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
06969	Tin	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
06970	Titanium	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110765708002	03/19/2011 19:57	John P Hook	1
06124	Antimony	SW-846 6020	1	110761026001A	03/25/2011 11:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110761026001A	03/25/2011 11:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110761026001D	03/25/2011 11:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110761026001A	03/25/2011 11:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110761026001A	03/25/2011 11:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110761026001A	03/25/2011 11:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110761026001A	03/25/2011 11:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110761026001A	03/25/2011 11:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110761026001A	03/25/2011 11:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110761026001C	03/25/2011 11:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110761026001A	03/25/2011 11:20	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-137-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SB-4.0-5.0

LLI Sample # SW 6230971
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:19

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-1 SDG#: DE105-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	110761026001B	03/25/2011 11:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110761026001A	03/25/2011 11:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110761026001A	03/25/2011 11:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110761026001A	03/25/2011 11:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110761026001A	03/25/2011 11:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110765711002	03/18/2011 07:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110765708002	03/17/2011 20:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110761026001	03/17/2011 20:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110765711002	03/17/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201B	03/18/2011 22:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201B	03/18/2011 22:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076202A	03/28/2011 22:37	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11080243201A	03/22/2011 18:38	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11082102201A	03/23/2011 16:37	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201B	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076202A	03/17/2011 13:40	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11082102201A	03/23/2011 10:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101A	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401A	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-132-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SB-2.0-3.0

LLI Sample # SW 6230972
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 15:37

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-2 SDG#: DE105-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.89
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.89
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.89
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.89
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.89
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.89
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.89
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.89
06192	Methylene Chloride	75-09-2	1.1	J	0.24	4.0		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.89

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-132-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SB-2.0-3.0

LLI Sample # SW 6230972
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 15:37

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-2 SDG#: DE105-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		24.85
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	45.5		18.5	37.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-132-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SB-2.0-3.0

LLI Sample # SW 6230972
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 15:37

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-2 SDG#: DE105-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1

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Sample Description: **SL-132-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SB-2.0-3.0

LLI Sample # SW 6230972
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 15:37

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-2 SDG#: DE105-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.23
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SB-2.0-3.0

LLI Sample # SW 6230972
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 15:37

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-2 SDG#: DE105-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	2.2		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	4.4		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,200		5.49	21.8		1
07914	Boron	7440-42-8	3.20	J	0.971	5.45		1

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Sample Description: **SL-132-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SB-2.0-3.0

LLI Sample # SW 6230972
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 15:37

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-2 SDG#: DE105-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,690		6.68	21.8		1
01654	Iron	7439-89-6	25,300		5.14	21.8		1
01656	Lithium	7439-93-2	31.5		0.24	2.2		1
01657	Magnesium	7439-95-4	4,980		2.77	10.9		1
06958	Manganese	7439-96-5	304		0.0851	0.545		1
10145	Phosphorus	7723-14-0	182		0.611	10.9		1
01662	Potassium	7440-09-7	2,020		19.6	54.5		1
01667	Sodium	7440-23-5	129		40.7	109		1
07968	Strontium	7440-24-6	24.0		0.0676	0.545		1
06969	Tin	7440-31-5	3.30	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,370		0.414	1.09		1
10146	Zirconium	7440-67-7	2.32	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.179	J	0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.83		0.0864	0.432		2
06126	Barium	7440-39-3	128		0.117	0.432		2
06127	Beryllium	7440-41-7	1.42		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0617	J	0.0432	0.108		2
06131	Chromium	7440-47-3	26.7		0.130	0.432		2
06132	Cobalt	7440-48-4	6.73		0.0216	0.108		2
06133	Copper	7440-50-8	8.47		0.0713	0.432		2
06135	Lead	7439-92-1	8.81		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.738		0.0540	0.108		2
06139	Nickel	7440-02-0	16.4		0.108	0.432		2
06141	Selenium	7782-49-2	0.182	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0821	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.399		0.0324	0.108		2
06148	Vanadium	7440-62-2	52.8		0.0238	0.108		2
06149	Zinc	7440-66-6	72.9		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0088	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Sample Description: SL-132-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SB-2.0-3.0

LLI Sample # SW 6230972
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 15:37

Submitted: 03/16/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-2 SDG#: DE105-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	466		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-132-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110761AA	03/17/2011	15:22	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110761AA	03/17/2011	12:38	Jason M Long	24.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107523880	03/16/2011	14:25	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107523880	03/16/2011	14:30	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107523880	03/16/2011	14:30	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107523880	03/16/2011	14:25	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11082SLE026	04/01/2011	10:18	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/29/2011	06:09	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011	12:08	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11082SLE026	03/24/2011	04:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011	03:00	Sherry L Morrow	1

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SL-132-SA5A-SB-2.0-3.0

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105-2 SDG#: DE105-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11075A34A	03/18/2011 00:51	Marie D John	20.23
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107523880	03/16/2011 14:25	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/26/2011 19:51	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/23/2011 21:49	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 15:01	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 18:46	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 23:19	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110760025A	03/18/2011 22:10	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110820006A	03/26/2011 07:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110820006A	03/23/2011 13:45	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110760025A	03/17/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
07914	Boron	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
01654	Iron	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
07968	Strontium	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
06969	Tin	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
06970	Titanium	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110765708002	03/19/2011 20:20	John P Hook	1
06124	Antimony	SW-846 6020	1	110761026001A	03/25/2011 11:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110761026001A	03/25/2011 11:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110761026001D	03/25/2011 11:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110761026001A	03/25/2011 11:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110761026001A	03/25/2011 11:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110761026001A	03/25/2011 11:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110761026001A	03/25/2011 11:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110761026001A	03/25/2011 11:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110761026001A	03/25/2011 11:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110761026001C	03/25/2011 11:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110761026001A	03/25/2011 11:45	Choon Y Tian	2

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Sample Description: **SL-132-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SB-2.0-3.0

LLI Sample # SW 6230972
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 15:37

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-2 SDG#: DE105-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	110761026001B	03/25/2011 11:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110761026001A	03/25/2011 11:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110761026001A	03/25/2011 11:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110761026001A	03/25/2011 11:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110761026001A	03/25/2011 11:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110765711002	03/18/2011 07:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110765708002	03/17/2011 20:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110761026001	03/17/2011 20:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110765711002	03/17/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201B	03/18/2011 22:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201B	03/18/2011 22:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076202A	03/28/2011 23:01	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 18:44	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11082102201A	03/23/2011 16:38	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201B	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076202A	03/17/2011 13:40	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11082102201A	03/23/2011 10:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101A	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401A	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-138-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SB-4.0-5.0

LLI Sample # SW 6230973
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 14:36

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-3 SDG#: DE105-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	U	7.8	9.3		1.03
06192	Benzene	71-43-2	0.12	U	0.12	4.6		1.03
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.03
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.03
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.03
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.03
06192	2-Butanone	78-93-3	1.4	U	1.4	9.3		1.03
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.03
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.6		1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.03
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.03
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		1.03
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.03
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.03
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		1.03
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.03
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1.03
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.6		1.03
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.03
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1.03
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.03
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.03
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.03
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1.03
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.6		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1.03
06192	Ethylbenzene	100-41-4	0.10	J	0.07	4.6		1.03
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.03
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.03
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3		1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.03
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.3		1.03
06192	Methylene Chloride	75-09-2	2.0	J	0.28	4.6		1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.03

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Sample Description: SL-138-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SB-4.0-5.0

LLI Sample # SW 6230973
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 14:36

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-3 SDG#: DE105-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.6		1.03
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.03
06192	Toluene	108-88-3	0.09	U	0.09	4.6		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.03
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.03
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.6		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1.03
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.03
06192	m+p-Xylene	179601-23-1	0.31	J	0.20	4.6		1.03
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		25.67
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	30.3	J	18.8	37.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: **SL-138-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SB-4.0-5.0

LLI Sample # SW 6230973
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 14:36

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-3 SDG#: DE105-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.5	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1

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Sample Description: **SL-138-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SB-4.0-5.0

LLI Sample # SW 6230973
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 14:36

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-3 SDG#: DE105-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	U	0.3	1.3		28.34
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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Sample Description: SL-138-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SB-4.0-5.0

LLI Sample # SW 6230973
LLI Group # 1237534
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Chantilly VA 20151

105-3 SDG#: DE105-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	1.5		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		5.55	22.1		1
07914	Boron	7440-42-8	2.45	J	0.981	5.51		1

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Sample Description: SL-138-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SB-4.0-5.0

LLI Sample # SW 6230973
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 14:36

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-3 SDG#: DE105-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,370		6.76	22.1		1
01654	Iron	7439-89-6	21,100		5.19	22.1		1
01656	Lithium	7439-93-2	22.0		0.24	2.2		1
01657	Magnesium	7439-95-4	4,240		2.80	11.0		1
06958	Manganese	7439-96-5	243		0.0860	0.551		1
10145	Phosphorus	7723-14-0	136		0.618	11.0		1
01662	Potassium	7440-09-7	1,660		19.9	55.1		1
01667	Sodium	7440-23-5	136		41.1	110		1
07968	Strontium	7440-24-6	21.5		0.0684	0.551		1
06969	Tin	7440-31-5	3.00	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,300		0.419	1.10		1
10146	Zirconium	7440-67-7	1.57	J	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.154	J	0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.14		0.0891	0.445		2
06126	Barium	7440-39-3	52.8		0.120	0.445		2
06127	Beryllium	7440-41-7	0.792		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.0454	J	0.0445	0.111		2
06131	Chromium	7440-47-3	18.5		0.134	0.445		2
06132	Cobalt	7440-48-4	6.96		0.0223	0.111		2
06133	Copper	7440-50-8	5.49		0.0735	0.445		2
06135	Lead	7439-92-1	5.96		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.589		0.0557	0.111		2
06139	Nickel	7440-02-0	8.55		0.111	0.445		2
06141	Selenium	7782-49-2	0.117	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0341	J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.257		0.0334	0.111		2
06148	Vanadium	7440-62-2	36.9		0.0245	0.111		2
06149	Zinc	7440-66-6	44.1		0.624	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0108	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.91	J	0.22	1.1		1

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Sample Description: SL-138-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SB-4.0-5.0

LLI Sample # SW 6230973
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 14:36

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-3 SDG#: DE105-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	452		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.82		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-138-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110761AA	03/17/2011	15:44	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110761AA	03/17/2011	12:58	Jason M Long	25.67
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107523880	03/16/2011	14:28	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107523880	03/16/2011	14:30	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107523880	03/16/2011	14:30	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107523880	03/16/2011	14:29	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11082SLE026	04/01/2011	10:34	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/29/2011	06:34	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011	12:40	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11082SLE026	03/24/2011	04:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011	03:00	Sherry L Morrow	1

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Sample Description: **SL-138-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SB-4.0-5.0

LLI Sample # SW 6230973
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 14:36

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-3 SDG#: DE105-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11075A34A	03/18/2011 01:27	Marie D John	28.34
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107523880	03/16/2011 14:28	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/26/2011 20:33	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/23/2011 22:08	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 15:19	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 14:55	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 23:33	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110760025A	03/18/2011 22:27	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110820006A	03/26/2011 08:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110820006A	03/23/2011 13:45	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110760025A	03/17/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
07914	Boron	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
01654	Iron	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
06969	Tin	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110765708002	03/19/2011 20:32	John P Hook	1
06124	Antimony	SW-846 6020	1	110761026001A	03/25/2011 11:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110761026001A	03/25/2011 11:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110761026001D	03/25/2011 11:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110761026001A	03/25/2011 11:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110761026001A	03/25/2011 11:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110761026001A	03/25/2011 11:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110761026001A	03/25/2011 11:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110761026001A	03/25/2011 11:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110761026001A	03/25/2011 11:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110761026001C	03/25/2011 11:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110761026001A	03/25/2011 11:48	Choon Y Tian	2

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Sample Description: **SL-138-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SB-4.0-5.0

LLI Sample # SW 6230973
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 14:36

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-3 SDG#: DE105-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	110761026001B	03/25/2011 11:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110761026001A	03/25/2011 11:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110761026001A	03/25/2011 11:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110761026001A	03/25/2011 11:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110761026001A	03/25/2011 11:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110765711002	03/18/2011 07:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110765708002	03/17/2011 20:13	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110761026001	03/17/2011 20:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110765711002	03/17/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201B	03/18/2011 22:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201B	03/18/2011 22:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076202A	03/28/2011 23:25	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 18:56	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11082102201A	03/23/2011 16:39	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201B	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076202A	03/17/2011 13:40	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11082102201A	03/23/2011 10:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101A	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401A	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB07-SA5A-031511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5A-031511

LLI Sample # WW 6230974
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:00

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-4 SDG#: DE105-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: **EB07-SA5A-031511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5A-031511

LLI Sample # WW 6230974
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:00

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-4 SDG#: DE105-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	1.14		0.491	0.982		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of .908 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	59		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1

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Sample Description: **EB07-SA5A-031511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5A-031511

LLI Sample # WW 6230974
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:00

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-4 SDG#: DE105-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.0096	U	0.0096	0.048		1
10137	Acenaphthylene	208-96-8	0.0096	U	0.0096	0.048		1
10137	Anthracene	120-12-7	0.0096	U	0.0096	0.048		1
10137	Benzo(a)anthracene	56-55-3	0.0096	U	0.0096	0.048		1
10137	Benzo(a)pyrene	50-32-8	0.0096	U	0.0096	0.048		1
10137	Benzo(b)fluoranthene	205-99-2	0.0096	U	0.0096	0.048		1
10137	Benzo(g,h,i)perylene	191-24-2	0.0096	U	0.0096	0.048		1
10137	Benzo(k)fluoranthene	207-08-9	0.0096	U	0.0096	0.048		1
10137	Butylbenzylphthalate	85-68-7	0.048	U	0.048	0.96		1
10137	Di-n-butylphthalate	84-74-2	0.44	J	0.048	0.96		1

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Sample Description: **EB07-SA5A-031511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5A-031511

LLI Sample # WW 6230974
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:00

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-4 SDG#: DE105-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Chrysene	218-01-9	0.0096	U	0.0096	0.048		1
10137	Dibenz(a,h)anthracene	53-70-3	0.0096	U	0.0096	0.048		1
10137	Diethylphthalate	84-66-2	0.067	J	0.048	0.96		1
10137	Dimethylphthalate	131-11-3	0.048	U	0.048	0.96		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.075	J	0.048	0.96		1
10137	Fluoranthene	206-44-0	0.0096	U	0.0096	0.048		1
10137	Fluorene	86-73-7	0.0096	U	0.0096	0.048		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0096	U	0.0096	0.048		1
10137	1-Methylnaphthalene	90-12-0	0.0096	U	0.0096	0.048		1
10137	2-Methylnaphthalene	91-57-6	0.0096	U	0.0096	0.048		1
10137	Naphthalene	91-20-3	0.029	J	0.029	0.048		1
10137	N-Nitrosodimethylamine	62-75-9	0.0096	U	0.0096	0.048		1
10137	Di-n-octylphthalate	117-84-0	0.048	U	0.048	0.96		1
10137	Phenanthrene	85-01-8	0.0096	U	0.0096	0.048		1
10137	Pyrene	129-00-0	0.0096	U	0.0096	0.048		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .092 ug/l. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1

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Sample Description: **EB07-SA5A-031511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5A-031511

LLI Sample # WW 6230974
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:00

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-4 SDG#: DE105-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.32	U	0.32	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1

The sample was reextracted due to interfering peaks in the method blank and sample chromatogram. The sample was reextracted outside the sample hold time. Similar results were obtained in both extraction except RDX was detect at 0.27 ug/l in the reextraction. The original, in hold, trial is reported.

Due to interfering peaks on the chromatogram, the values reported for RDX represent the lowest reporting limits attainable.

HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.098	U	0.098	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.097	U	0.097	0.58		1
10365	EFH (C15-C20)	n.a.	0.097	U	0.097	0.58		1
10365	EFH (C21-C30)	n.a.	0.097	U	0.097	0.58		1
10365	EFH (C30 - C40)	n.a.	0.097	U	0.097	0.58		1
10365	EFH (C8-C11)	n.a.	0.097	U	0.097	0.58		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1

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Sample Description: **EB07-SA5A-031511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5A-031511

LLI Sample # WW 6230974
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:00

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-4 SDG#: DE105-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.079	U	0.079	0.25		1
10319	o-Terphenyl	84-15-1	0.079	U	0.079	0.25		1
10319	p-Terphenyl	92-94-4	0.079	U	0.079	0.25		1
	The LCSD recovery for p-Terphenyl is outside the QC limits. The surrogate data is outside the QC limits for the blank, LCS/LCSD and sample. Due to insufficient sample volume, a repeat analysis could not be performed to confirm the results.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0202	J	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB07-SA5A-031511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5A-031511

LLI Sample # WW 6230974
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:00

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-4 SDG#: DE105-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7470A**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.7	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110772AA	03/18/2011 15:58	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110752AA	03/16/2011 20:46	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110752AA	03/16/2011 20:46	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110772AA	03/18/2011 15:58	Nicholas R Rossi	1
10962	15b NDMA by 1625C	EPA 1625C	1	11076WAA026	03/18/2011 12:51	Timothy J Trees	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11076WAJ026	03/23/2011 03:56	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11078WAB026	03/23/2011 11:25	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11076WAJ026	03/18/2011 16:15	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11078WAB026	03/20/2011 15:35	Timothy J Attenberger	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11076WAA026	03/17/2011 13:50	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
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Sample Description: **EB07-SA5A-031511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5A-031511

LLI Sample # WW 6230974
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:00

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-4 SDG#: DE105-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11079A20A	03/21/2011 11:39	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11079A20A	03/21/2011 11:39	Katrina T Longenecker	1
10131	16b Energetics by 8330A	SW-846 8330A	1	110800004A	03/23/2011 02:31	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	110760009A	03/19/2011 07:35	Michele D Hamilton	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110760047A	03/23/2011 19:29	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	110760047A	03/19/2011 02:00	Roman Kuropatkin	1
01013	Formaldehyde Extraction	SW-846 8315A	1	110760009A	03/17/2011 16:45	Sally L Appleyard	1
11122	Energetics Extraction	SW-846 8330	1	110800004A	03/21/2011 17:00	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110760035A	03/22/2011 06:20	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	110820031A	03/23/2011 19:35	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	110800029A	03/22/2011 22:02	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	110760034A	03/19/2011 23:05	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	110760035A	03/18/2011 20:30	Elaine F Stoltzfus	1
10304	Terphenyls water prep	SW-846 3510C	1	110760034A	03/18/2011 20:30	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
08014	Boron	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
01750	Calcium	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
01754	Iron	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
01756	Lithium	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
01757	Magnesium	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
07058	Manganese	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
01762	Potassium	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
01767	Sodium	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
08068	Strontium	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
07069	Tin	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
07070	Titanium	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
10144	Zirconium	SW-846 6010B	1	110771848002	03/21/2011 20:50	John P Hook	1
06024	Antimony	SW-846 6020	1	110776050002A	03/24/2011 16:15	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	110776050002A	03/24/2011 16:15	Choon Y Tian	1
06026	Barium	SW-846 6020	1	110776050002D	03/24/2011 16:15	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	110776050002A	03/24/2011 16:15	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	110776050002A	03/24/2011 16:15	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	110776050002A	03/24/2011 16:15	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	110776050002A	03/24/2011 16:15	Choon Y Tian	1
06033	Copper	SW-846 6020	1	110776050002A	03/24/2011 16:15	Choon Y Tian	1
06035	Lead	SW-846 6020	1	110776050002A	03/24/2011 16:15	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	110776050002C	03/24/2011 16:15	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	110776050002A	03/24/2011 16:15	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	110776050002B	03/24/2011 16:15	Choon Y Tian	1
06042	Silver	SW-846 6020	1	110776050002A	03/24/2011 16:15	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	110776050002A	03/24/2011 16:15	Choon Y Tian	1

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Sample Description: **EB07-SA5A-031511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5A-031511

LLI Sample # WW 6230974
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:00

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-4 SDG#: DE105-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06048	Vanadium	SW-846 6020	1	110776050002A	03/24/2011 16:15	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	110776050002A	03/24/2011 16:15	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	110775713006	03/21/2011 07:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110771848002	03/21/2011 09:08	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110776050002	03/21/2011 09:05	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110775713006	03/19/2011 06:20	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11075196602B	03/17/2011 09:28	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11075196602B	03/17/2011 09:28	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11088196701A	03/29/2011 22:02	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11075196401B	03/16/2011 11:26	Carrie E Miller	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11082117101B	03/23/2011 16:23	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11082117101B	03/23/2011 10:20	Nancy J Shoop	1
00200	18b pH by 9040B	SW-846 9040B	1	11075020001A	03/16/2011 21:00	Luz M Groff	1

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-031511 Water**
SSFL Area IV Collocated Soil Sampling
TB-031511

LLI Sample # WW 6230975
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 08:00

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-5 SDG#: DE105-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **TB-031511 Water**
SSFL Area IV Collocated Soil Sampling
TB-031511

LLI Sample # WW 6230975
LLI Group # 1237534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 08:00

Submitted: 03/16/2011 10:00
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

105-5 SDG#: DE105-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110772AA	03/18/2011	16:19	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110752AA	03/16/2011	21:06	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110752AA	03/16/2011	21:06	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110772AA	03/18/2011	16:19	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11079A20A	03/21/2011	13:28	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11079A20A	03/21/2011	13:28	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110761AA	Sample number(s): 6230971-6230973									
Acetone	6.7	U	6.7	8.0	ug/kg	157	156	32-209	1	30
Benzene	0.10	U	0.10	4.0	ug/kg	102	103	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	96	100	79-120	4	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	120	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	91	92	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	81	85	70-120	4	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	84	81	32-162	4	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	125	126	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	108	108	72-120	0	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	108	110	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	98	100	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	90	90	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	95	97	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	82	79	37-154	4	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	90	95	43-146	5	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	101	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	80	79	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98	101	78-120	3	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98	98	79-120	0	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	77	74	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	95	102	58-120	7	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	83	87	77-120	5	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96	99	80-120	4	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100	100	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	95	98	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	96	98	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	96	97	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	63	63	20-120	0	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100	100	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	98	101	71-129	3	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	109	107	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	100	101	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	100	101	79-120	1	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	100	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97	101	80-120	4	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	91	92	72-123	0	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	99	99	77-120	0	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	89	91	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86	90	77-120	5	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	97	99	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	115	112	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	105	103	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	99	99	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	116	121	45-155	4	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	97	99	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	106	107	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	98	101	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	106	112	61-134	6	30
Methylene Chloride	0.59	J	0.24	4.0	ug/kg	109	109	76-124	0	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	107	109	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	93	95	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	89	92	80-120	3	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103	107	71-123	4	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	93	98	77-120	5	30
Toluene	0.15	J	0.08	4.0	ug/kg	98	100	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95	98	64-120	3	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94	97	68-120	4	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	92	93	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97	99	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97	97	80-120	0	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	96	93	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	103	107	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	103	106	79-120	3	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	103	105	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	83	81	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	95	97	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	93	96	80-120	3	30
Batch number: E110752AA	Sample number(s): 6230974-6230975									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	96	108	80-123	11	30
Batch number: E110761AA	Sample number(s): 6230971-6230973									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	114	112	70-130	1	30
Batch number: Y110772AA	Sample number(s): 6230974-6230975									
Acetone	6	U	6.	20	ug/l	114	110	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	94	93	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	100	97	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	102	99	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	98	95	80-120	3	30
Bromoform	1	U	1.	5	ug/l	78	79	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	88	86	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	111	110	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	95	94	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	96	94	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	90	92	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	105	103	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	92	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	79	81	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	84	84	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	105	103	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	69	72	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	96	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	94	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	61	62	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	91	89	56-126	2	30
Dibromochloromethane	1	U	1.	5	ug/l	90	89	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	93	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	97	96	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	94	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	69	68	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	97	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	117	115	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	87	83	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	93	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	91	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	92	92	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	96	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	102	101	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	98	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	90	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	92	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	94	79-120	2	30
Freon 113	2	U	2.	10	ug/l	85	81	69-128	6	30
Freon 133a	2	U	2.	5	ug/l	96	99	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	90	88	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	99	97	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	94	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	96	95	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	98	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	94	93	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	92	88	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	99	98	80-120	1	30
Styrene	1	U	1.	5	ug/l	85	84	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	97	95	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	90	89	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	94	80-121	5	30
Toluene	0.7	U	0.7	5	ug/l	93	92	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	96	94	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	94	92	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	92	91	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	98	95	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	94	92	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	99	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	98	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	97	96	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	73	74	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	91	91	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	90	90	80-120	1	30
Batch number: 11076WAA026	Sample number(s): 6230974									
N-Nitrosodimethylamine	0.908	J	0.500	1.00	ng/l	78	82	70-130	4	30
Batch number: 11076WAJ026	Sample number(s): 6230974									
Aniline	1	U	1.	5	ug/l	56	64	49-101	12	30
Benzidine	20	U	20.	60	ug/l	45	54	34-117	18	30
Benzoic acid	6	U	6.	15	ug/l	14	19	10-69	29	30
Benzyl alcohol	5	U	5.	15	ug/l	62*	68	66-97	9	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	85	88	82-117	4	30
Carbazole	1	U	1.	5	ug/l	85	86	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	76	76	70-123	0	30
4-Chloroaniline	1	U	1.	5	ug/l	56	64	42-124	13	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	80	83	74-124	4	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	81	85	77-108	5	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	79	82	62-127	5	30
2-Chloronaphthalene	2	U	2.	5	ug/l	81	87	54-132	7	30
2-Chlorophenol	1	U	1.	5	ug/l	80	81	77-108	2	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	85	89	82-111	4	30
Dibenzofuran	1	U	1.	5	ug/l	84	89	83-108	6	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	1	U	1.	5	ug/l	77	81	55-118	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	75	82	50-119	10	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	75	81	53-119	7	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	53	59	49-111	10	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	85	86	80-109	2	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	78	80	72-110	2	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	83	84	70-130	1	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	73*	73*	78-119	1	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	63	64	52-131	2	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	80*	84	81-115	5	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	82*	87	85-115	6	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	83	85	78-116	2	30
Hexachlorobenzene	1	U	1.	5	ug/l	88	90	81-118	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	72	81	57-124	12	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	65	71	36-118	9	30
Hexachloroethane	1	U	1.	5	ug/l	70	77	52-113	10	30
Isophorone	1	U	1.	5	ug/l	76	80	74-117	5	30
2-Methylphenol	1	U	1.	5	ug/l	66	67	64-101	2	30
4-Methylphenol	2	U	2.	5	ug/l	62	65	61-103	4	30
2-Nitroaniline	1	U	1.	5	ug/l	79*	84	83-116	5	30
3-Nitroaniline	1	U	1.	5	ug/l	77	83	74-113	7	30
4-Nitroaniline	1	U	1.	5	ug/l	64	67	59-100	4	30
Nitrobenzene	1	U	1.	5	ug/l	72*	78	75-109	8	30
2-Nitrophenol	1	U	1.	5	ug/l	81*	84*	86-120	4	30
4-Nitrophenol	10	U	10.	30	ug/l	25	29	16-78	15	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	76	80	69-110	4	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	88	91	67-136	3	30
Pentachlorophenol	3	U	3.	15	ug/l	78	75	53-110	4	30
Phenol	1	U	1.	5	ug/l	31	34	21-67	8	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	77	84	71-112	9	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	83	84	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	82	85	81-113	3	30
Batch number: 11078WAB026	Sample number(s): 6230974									
Acenaphthene	0.010	U	0.010	0.050	ug/l	93	95	74-109	1	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	100	102	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	104	108	66-111	4	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	109	109	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	111	113	60-127	2	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	116	117	69-123	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	117	114	57-131	3	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	111	115	59-130	4	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	98	97	40-138	1	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	116	116	74-131	0	30
Chrysene	0.010	U	0.010	0.050	ug/l	102	104	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	115	113	55-134	2	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	102	106	57-134	3	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	81	81	40-119	0	30
Bis(2-Ethylhexyl)phthalate	0.092	J	0.050	1.0	ug/l	124	114	57-154	8	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	108	111	75-116	3	30
Fluorene	0.010	U	0.010	0.050	ug/l	105	110	75-114	5	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	116	114	69-124	2	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	102	105	71-117	3	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	94	96	75-115	1	30
Naphthalene	0.030	U	0.030	0.050	ug/l	98	99	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	67	71	36-89	6	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	132	131	57-145	1	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	103	104	76-111	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Pyrene	0.010	U	0.010	0.050	ug/l	109	107	69-118	2	30
Batch number: 11080SLE026	Sample number(s): 6230971-6230973									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	44		15-121		
Benzoic acid	170 U		170.	500	ug/kg	79		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	80		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117		
Di-n-butylphthalate	17	U	17.	170	ug/kg	89		79-112		
Carbazole	17	U	17.	170	ug/kg	86		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	78		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	38		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	82		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	80		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	72		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	93		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	88		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	41		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	91		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	82		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	90		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	82		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	73		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	82		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	88		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	84		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	86		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	90		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Isophorone	17	U	17.	170	ug/kg	74		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	83		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	84		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	85		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	80		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	59		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	72		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	87		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	63		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	70		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	107		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	82		51-117		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenol	17	U	17.	170	ug/kg	79		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	91		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11081SLB026	Sample number(s): 6230971-6230973									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	103		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	106		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	112		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	117		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	130		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	132		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	119		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	129		65-131		
Chrysene	0.33	U	0.33	1.7	ug/kg	112		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	137		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	123		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	116		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	143		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	113		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	115		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	135*		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	106		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	103		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	101		55-118		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	105		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	105		56-121		
Batch number: 11082SLE026	Sample number(s): 6230971-6230973									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	85		70-130		
Batch number: 11075A34A	Sample number(s): 6230971-6230973									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	72	83	67-119	14	30
Batch number: 11079A20A	Sample number(s): 6230974-6230975									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	127	75-135	7	30
Batch number: 110800004A	Sample number(s): 6230974									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	120	120	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	93	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	93	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	110	72-117	10	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	110	120	65-125	9	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	95	96	75-121	1	30
Nitroglycerin	5.2	U	5.2	15	ug/l	96	100	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	99	100	74-120	1	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	99	100	69-107	1	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	99	100	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	108	113	80-120	4	30
RDX	0.20	U	0.20	0.60	ug/l	110	110	70-125	0	30
Tetryl	0.40	U	0.40	0.60	ug/l	110	110	72-141	0	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	120	120	53-129	0	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	110*	110*	76-109	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110820004A	Sample number(s): 6230971-6230973									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	103	106	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	103	106	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	106		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100 U		100.	300	ug/kg	102		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	104		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	94		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	111		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800 U		800.	2,400	ug/kg	115		80-120		
RDX	50	U	50.	120	ug/kg	115		75-131		
Tetryl	61	U	61.	120	ug/kg	93		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
Batch number: 110760009A	Sample number(s): 6230974									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	110	86	69-130	24	30
Batch number: 110800003A	Sample number(s): 6230971-6230973									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	102		80-126		
Batch number: 110760047A	Sample number(s): 6230974									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	76	74	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	92	92	51-128	0	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	94	94	56-135	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110820012A	Sample number(s): 6230971-6230973									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	92	80	36-106	14	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	98		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	112		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110760035A	Sample number(s): 6230974									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	100	110	60-120	10	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	108	117	60-120	8	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	108	115	60-120	7	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	107	113	60-120	6	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	80	84	60-120	5	30
Batch number: 110820032A	Sample number(s): 6230971-6230973									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	102		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	109		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	113		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	80		66-113		
Batch number: 110750026A	Sample number(s): 6230971-6230973									
Ethanol	100 U		100.	500	ug/kg	95		71-129		
Isopropanol	100 U		100.	500	ug/kg	102		75-125		
Methanol	100 U		100.	500	ug/kg	91		68-129		
Batch number: 110760025A	Sample number(s): 6230971-6230973									
Diethylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Ethylene glycol	8.8	J	5.0	13	mg/kg	107		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Batch number: 110800029A	Sample number(s): 6230974									
Diethylene glycol	10	U	10.	100	mg/l	105		78-126		
Ethylene glycol	10	U	10.	100	mg/l	105		80-124		
Propylene glycol	10	U	10.	100	mg/l	105		80-120		
Batch number: 110820031A	Sample number(s): 6230974									
Ethanol	200 U		200.	1,000	ug/l	92		66-132		
Isopropanol	200 U		200.	1,000	ug/l	92		75-125		
Methanol	200 U		200.	1,000	ug/l	88		71-140		
Batch number: 110760034A	Sample number(s): 6230974									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	88	87	75-125	1	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	99	99	75-125	0	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	75	67*	75-125	11	20
Batch number: 110820006A	Sample number(s): 6230971-6230973									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	81		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	78		75-125		
Batch number: 110761026001A	Sample number(s): 6230971-6230973									
Antimony	0.0600	U	0.0600	0.200	mg/kg	112		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	108		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	108		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	112		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	117		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cobalt	0.0200 U	0.0200	0.100	mg/kg	107		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	114		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	111		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	115		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	113		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	107		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	109		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	113		78-122		
Batch number: 110761026001B	Sample number(s): 6230971-6230973								
Selenium	0.0400 U	0.0400	0.400	mg/kg	110		79-122		
Batch number: 110761026001C	Sample number(s): 6230971-6230973								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	120		78-122		
Batch number: 110761026001D	Sample number(s): 6230971-6230973								
Barium	0.108 U	0.108	0.400	mg/kg	112		79-121		
Batch number: 110765708002	Sample number(s): 6230971-6230973								
Aluminum	22.6	5.03	20.0	mg/kg	108		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	102		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	101		88-110		
Iron	11.7 J	4.71	20.0	mg/kg	102		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	102		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	109		81-119		
Phosphorus	1.05 J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	101		78-110		
Sodium	37.3 U	37.3	100	mg/kg	101		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	106		79-121		
Tin	1.37 J	1.00	10.0	mg/kg	103		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	114		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	101		80-120		
Batch number: 110765711002	Sample number(s): 6230971-6230973								
Mercury	0.0027 U	0.0027	0.0951	mg/kg	101		88-123		
Batch number: 110771848002	Sample number(s): 6230974								
Aluminum	0.0834 U	0.0834	0.200	mg/l	94	96	90-112	2	20
Boron	0.0138 U	0.0138	0.0500	mg/l	95	98	90-110	3	20
Calcium	0.0702 U	0.0702	0.200	mg/l	102	101	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	100	102	90-112	3	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	100	80-120	1	20
Magnesium	0.0362 J	0.0172	0.100	mg/l	99	99	89-110	0	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	99	102	90-110	3	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	99	100	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	98	98	85-115	0	20
Sodium	0.433 U	0.433	1.00	mg/l	95	95	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	102	103	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	100	101	90-110	1	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	102	105	90-113	3	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	102	102	80-120	1	20
Batch number: 110775713006	Sample number(s): 6230974								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	99	102	80-120	2	20
Batch number: 110776050002A	Sample number(s): 6230974								

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Antimony	0.00030 U	0.00030	0.0010	mg/l	94	110	87-110	16	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	92	100	86-111	8	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	103	103	90-112	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	99	101	90-114	2	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	97	101	90-118	3	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	92	98	80-120	6	20
Copper	0.00038 U	0.00038	0.0020	mg/l	92	98	90-113	6	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	98	104	90-115	6	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	97	104	90-113	7	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	100	105	90-115	5	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	97	101	89-116	4	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	96	104	80-120	7	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	96	103	80-120	7	20
Batch number: 110776050002B	Sample number(s): 6230974								
Selenium	0.00025 U	0.00025	0.0020	mg/l	100	105	85-114	5	20
Batch number: 110776050002C	Sample number(s): 6230974								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	100	102	80-120	3	20
Batch number: 110776050002D	Sample number(s): 6230974								
Barium	0.00053 U	0.00053	0.0020	mg/l	101	104	88-113	2	20
Batch number: 11075196401B	Sample number(s): 6230974								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	101	100	90-110	0	20
Batch number: 11075196602B	Sample number(s): 6230974								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	94	96	90-110	2	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	102	98	90-110	4	20
Batch number: 11076076202A	Sample number(s): 6230971-6230973								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11076495201B	Sample number(s): 6230971-6230973								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11080243201A	Sample number(s): 6230971-6230973								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11082102201A	Sample number(s): 6230971-6230973								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11082117101B	Sample number(s): 6230974								
17b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	101	103	90-110	2	20
Batch number: 11088196701A	Sample number(s): 6230974								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	100	99	85-115	1	20
Batch number: 11075020001A	Sample number(s): 6230974								
18b pH by 9040B					100	100	90-110	0	1
Batch number: 11080039401A	Sample number(s): 6230971-6230973								
18a pH by 9045C					100		95-105		
Batch number: 11080182101A	Sample number(s): 6230971-6230973								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
32a OR Potential					100		98-102		
Batch number: 11095162401A	Sample number(s): 6230971-6230973								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11080SLE026	Sample number(s): 6230971-6230973 UNSPK: P230061								
Aniline	44	48	35-95	9	30				
Benzidine	43	46	35-141	7	30				
Benzoic acid	48	45	10-173	6	30				
Benzyl alcohol	76	77	67-115	3	30				
4-Bromophenyl-phenylether	90	90	67-129	2	30				
Di-n-butylphthalate	85	86	67-123	2	30				
Carbazole	87	89	64-120	3	30				
4-Chloro-3-methylphenol	71*	73*	76-110	4	30				
4-Chloroaniline	49	53	23-95	8	30				
bis(2-Chloroethoxy)methane	79	78	75-104	1	30				
bis(2-Chloroethyl)ether	76	77	60-116	2	30				
bis(2-Chloroisopropyl)ether	65	67	55-142	3	30				
2-Chloronaphthalene	74	73	50-141	1	30				
2-Chlorophenol	84	86	73-121	3	30				
4-Chlorophenyl-phenylether	85	85	80-109	1	30				
Dibenzofuran	86	85	71-112	1	30				
1,2-Dichlorobenzene	82	84	66-108	3	30				
1,3-Dichlorobenzene	80	81	63-109	2	30				
1,4-Dichlorobenzene	81	82	70-100	2	30				
3,3'-Dichlorobenzidine	69	74	16-119	8	30				
2,4-Dichlorophenol	85	85	78-117	1	30				
2,4-Dimethylphenol	77*	78	78-110	2	30				
3,5-Dimethylphenol	86	86	70-130	2	30				
4,6-Dinitro-2-methylphenol	28	24	24-116	15	30				
2,4-Dinitrophenol	20	16*	20-143	20	30				
2,4-Dinitrotoluene	72*	72*	73-113	0	30				
2,6-Dinitrotoluene	77	80	69-123	4	30				
1,2-Diphenylhydrazine	77	78	71-129	2	30				
Hexachlorobenzene	91	92	77-114	1	30				
Hexachlorobutadiene	88	85	62-120	2	30				
Hexachlorocyclopentadiene	29	23	10-153	24	30				
Hexachloroethane	61	63	57-109	3	30				
Isophorone	74	73	73-102	0	30				
2-Methylphenol	76	78	75-111	4	30				
4-Methylphenol	78	79	71-111	3	30				
2-Nitroaniline	89	91	67-125	2	30				
3-Nitroaniline	85	85	59-122	1	30				
4-Nitroaniline	64	65	52-112	4	30				
Nitrobenzene	72	72	72-106	1	30				
2-Nitrophenol	78	79	74-115	2	30				
4-Nitrophenol	63	63	54-113	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitroso-di-n-propylamine	65	66	60-116	3	30				
N-Nitrosodiphenylamine	93	94	86-145	2	30				
Di-n-octylphthalate	97	97	56-126	1	30				
Pentachlorophenol	78	78	28-127	1	30				
Phenol	74	76	58-126	4	30				
1,2,4-Trichlorobenzene	89	88	72-115	1	30				
2,4,5-Trichlorophenol	87	85	78-109	1	30				
2,4,6-Trichlorophenol	90	89	77-115	0	30				
Batch number: 11081SLB026	Sample number(s): 6230971-6230973 UNSPK: P230061								
Acenaphthene	104	94	63-105	9	30				
Acenaphthylene	104	96	67-114	8	30				
Anthracene	100	94	60-122	6	30				
Benzo(a)anthracene	97	92	59-128	5	30				
Benzo(a)pyrene	106	100	45-138	6	30				
Benzo(b)fluoranthene	105	99	43-155	5	30				
Benzo(g,h,i)perylene	118	112	33-141	5	30				
Benzo(k)fluoranthene	106	98	42-144	7	30				
Butylbenzylphthalate	126	120	57-173	5	30				
Chrysene	93	89	48-134	5	30				
Dibenz(a,h)anthracene	132	125	22-133	5	30				
Diethylphthalate	116	108	70-136	7	30				
Dimethylphthalate	114	105	74-118	8	30				
Bis(2-Ethylhexyl)phthalate	141	134	39-167	6	30				
Fluoranthene	92	83	26-166	7	30				
Fluorene	106	98	66-122	7	30				
Indeno(1,2,3-cd)pyrene	127	120	21-143	6	30				
1-Methylnaphthalene	104	95	72-123	9	30				
2-Methylnaphthalene	96	88	64-103	9	30				
Naphthalene	100	91	61-102	10	30				
N-Nitrosodimethylamine	101	92	48-113	9	30				
Phenanthrene	76	69	12-165	7	30				
Pyrene	72	68	15-153	4	30				
Batch number: 11082SLE026	Sample number(s): 6230971-6230973 UNSPK: 6230971								
N-Nitrosodimethylamine	74	70	70-130	5	30				
Batch number: 110820004A	Sample number(s): 6230971-6230973 UNSPK: 6230971								
4-Amino-2,6-Dinitrotoluene	110	108	80-127	4	50				
2-Amino-4,6-Dinitrotoluene	109	108	80-137	3	50				
1,3-Dinitrobenzene	109	108	38-166	3	50				
2,4-Dinitrotoluene	105	104	80-131	3	50				
2,6-Dinitrotoluene	110	106	80-127	5	50				
HMX	100	100	63-128	3	50				
Nitrobenzene	101	100	80-125	2	50				
Nitroglycerin	100	100	80-120	2	50				
2-Nitrotoluene	110	110	80-122	2	50				
3-Nitrotoluene	110	109	72-119	3	50				
4-Nitrotoluene	108	107	80-125	3	50				
PETN	117	116	80-121	3	50				
RDX	104	104	75-129	2	50				
Tetryl	77	79	55-174	2	50				
1,3,5-Trinitrobenzene	101	100	82-126	3	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,6-Trinitrotoluene	108	107	82-130	3	50				
Batch number: 110800003A	Sample number(s): 6230971-6230973 UNSPK: 6230971								
25a Formaldehyde 8315A	88	98	80-120	11	50				
Batch number: 110820012A	Sample number(s): 6230971-6230973 UNSPK: P230061								
PCB-1016	92	107	29-146	14	50				
PCB-1260	104	110	39-149	6	50				
Batch number: 110820032A	Sample number(s): 6230971-6230973 UNSPK: 6230971								
EFH (C12-C14)	93	83	49-123	10	20				
EFH (C15-C20)	114	109	49-123	5	20				
EFH (C21-C30)	123	120	49-123	3	20				
EFH (C30 - C40)	86	86	49-123	0	20				
EFH (C8-C11)	72	65	49-123	9	20				
Batch number: 110750026A	Sample number(s): 6230971-6230973 UNSPK: P228978								
Ethanol	79	77	48-130	2	20				
Isopropanol	85	83	12-149	2	20				
Methanol	81	79	43-138	3	20				
Batch number: 110760025A	Sample number(s): 6230971-6230973 UNSPK: P230062								
Diethylene glycol	129*	140*	59-109	8	20				
Ethylene glycol	132*	145*	63-107	10	20				
Propylene glycol	132*	140*	63-107	6	20				
Batch number: 110800029A	Sample number(s): 6230974 UNSPK: 6230974								
Diethylene glycol	75*	105	83-130	33*	20				
Ethylene glycol	85*	95	89-125	11	20				
Propylene glycol	90*	95	91-128	5	20				
Batch number: 110820031A	Sample number(s): 6230974 UNSPK: P230587								
Ethanol	92	92	62-145	0	20				
Isopropanol	92	92	73-131	0	20				
Methanol	92	92	52-159	0	20				
Batch number: 110820006A	Sample number(s): 6230971-6230973 UNSPK: P230062								
m-Terphenyl	72*	72*	75-125	0	20				
o-Terphenyl	93	92	75-125	1	20				
p-Terphenyl	72*	69*	75-125	3	20				
Batch number: 110761026001A	Sample number(s): 6230971-6230973 UNSPK: 6230971 BKG: 6230971								
Antimony	55*	75	75-125	28*	20	0.110 J	0.156 J	34* (1)	20
Arsenic	162*	217*	75-125	11	20	6.73	6.90	3	20
Beryllium	146*	160*	75-125	7	20	0.629	0.785	22*	20
Cadmium	140*	146*	75-125	5	20	0.0396 U	0.0392 U	0 (1)	20
Chromium	157*	169*	75-125	4	20	15.6	18.6	17	20
Cobalt	113	127*	75-125	12	20	2.61	14.9	140*	20
Copper	128*	142*	75-125	8	20	5.11	6.66	26*	20
Lead	176*	289*	75-125	29*	20	4.71	8.25	55*	20
Nickel	134*	143*	75-125	5	20	6.72	8.96	29*	20
Silver	128*	136*	75-125	7	20	0.0221 J	0.0446 J	67* (1)	20
Thallium	125	140*	75-125	9	20	0.254	0.281	10 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Vanadium	145*	186*	75-125	8	20	34.7	36.5	5	20
Zinc	209*	248*	75-125	7	20	34.4	50.1	37*	20
Batch number: 110761026001B	Sample number(s): 6230971-6230973 UNSPK: 6230971 BKG: 6230971								
Selenium	120	123	75-125	4	20	0.103 J	0.164 J	46* (1)	20
Batch number: 110761026001C	Sample number(s): 6230971-6230973 UNSPK: 6230971 BKG: 6230971								
Molybdenum	100	112	75-125	13	20	0.350	0.406	15 (1)	20
Batch number: 110761026001D	Sample number(s): 6230971-6230973 UNSPK: 6230971 BKG: 6230971								
Barium	244*	264*	75-125	3	20	39.0	57.0	38*	20
Batch number: 110765708002	Sample number(s): 6230971-6230973 UNSPK: 6230971 BKG: 6230971								
Aluminum	1917 (2)	1979 (2)	75-125	1	20	14,900	16,200	8	20
Boron	96	96	84-115	0	20	1.87 J	1.96 J	5 (1)	20
Calcium	149 (2)	156 (2)	75-125	1	20	1,860	1,980	6	20
Iron	243 (2)	168 (2)	75-125	0	20	20,500	19,600	5	20
Lithium	100	101	82-114	2	20	21.4	22.1	3	20
Magnesium	184 (2)	282 (2)	75-125	5	20	3,700	3,730	1	20
Manganese	-92 (2)	108 (2)	75-125	40*	20	244	177	32*	20
Phosphorus	93	86	75-125	2	20	151	131	15	20
Potassium	107	114	75-125	3	20	1,510	1,390	8	20
Sodium	98	98	75-125	1	20	131	137	4 (1)	20
Strontium	97	96	75-115	0	20	15.7	16.9	7	20
Tin	88	87	80-110	0	20	2.76 J	2.91 J	5 (1)	20
Titanium	265 (2)	266 (2)	75-125	0	20	1,130	1,140	1	20
Zirconium	96	96	75-125	1	20	2.15 J	2.63 J	20 (1)	20
Batch number: 110765711002	Sample number(s): 6230971-6230973 UNSPK: 6230971 BKG: 6230971								
Mercury	94	98	65-135	6	20	0.0076 J	0.0085 J	11 (1)	20
Batch number: 11076076202A	Sample number(s): 6230971-6230973 UNSPK: P230061 BKG: P230061								
7a Perchlorate EPA 314.0	102		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11076495201B	Sample number(s): 6230971-6230973 UNSPK: P230061 BKG: P230061								
11a Anions by 300.0 - Fluoride	89		80-120			1.4	1.4	2 (1)	20
11a Anions by 300.0 - Nitrate	109		80-120			0.80 U	1.1 J	200* (1)	20
Batch number: 11080243201A	Sample number(s): 6230971-6230973 UNSPK: P230061 BKG: P230061								
3a Cr VI by EPA 7199	92		75-125			0.28 J	0.20 U	200* (1)	20
Batch number: 11082102201A	Sample number(s): 6230971-6230973 UNSPK: P228984 BKG: P228984								
17a Cyanide by 9012B	104		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11080039401A	Sample number(s): 6230971-6230973 BKG: P230061								
18a pH by 9045C						6.93	6.92	0	1
Batch number: 11080182101A	Sample number(s): 6230971-6230973 BKG: P230061								
32a OR Potential						390	389	0	6
Batch number: 11095162401A	Sample number(s): 6230971-6230973 BKG: 6230973								
Moisture Content by 160.3						11.1	11.1	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110761AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6230971	99	99	100	94
6230972	98	102	97	94
6230973	98	98	98	94
Blank	98	101	99	94
LCS	100	103	100	99
LCSD	100	104	102	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110752AA

	Toluene-d8
6230974	97
6230975	100
Blank	97
LCS	97
LCSD	99
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110761AA

	Toluene-d8
6230971	95
6230972	98
6230973	95
Blank	94
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110772AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6230974	106	101	100	96
6230975	108	99	100	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Surrogate Quality Control

Blank	105	97	101	97
LCS	108	99	101	99
LCSD	105	101	100	98
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15b NDMA by 1625C
Batch number: 11076WAA026

	N-Nitrosodimethylamine-d6
6230974	146
Blank	114
LCS	113
LCSD	113
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11076WAJ026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6230974	33	19*	80	69	82	82
Blank	37	22	85	70	83	82
LCS	44	28	86	71	83	82
LCSD	46	29	86	76	86	82
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11078WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6230974	112	90	105
Blank	116	98	113
LCS	116	96	106
LCSD	117	97	105
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11080SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6230971	75	81	77	68	87	84
6230972	72	75	80	64	84	86
6230973	77	84	75	70	91	87
Blank	64	68	71	57	72	77
LCS	80	85	87	70	93	90
MS	77	85	85	73	92	81
MSD	80	87	86	73	93	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11081SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Surrogate Quality Control

6230971	100	93	91
6230972	93	90	93
6230973	95	88	95
Blank	102	96	105
LCS	117	106	111
MS	112	104	100
MSD	102	94	96
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11082SLE026

	N-Nitrosodimethylamine-d6
6230971	97
6230972	97
6230973	103
Blank	98
LCS	100
MS	100
MSD	100
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11075A34A

	Trifluorotoluene-F
6230971	77
6230972	81
6230973	81
Blank	81
LCS	92
LCSD	92
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11079A20A

	Trifluorotoluene-F
6230974	79
6230975	78
Blank	80
LCS	124
LCSD	122
Limits:	63-135

Analysis Name: 25b Formaldehyde 8315A
Batch number: 110760009A

	Butyraldehyde
6230974	103
Blank	96

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Surrogate Quality Control

LCS 124
LCSD 101

Limits: 45-145

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110760047A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6230974	104	89
Blank	60	86
LCS	97	84
LCSD	94	87
Limits:	30-150	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110800003A

	Butyraldehyde
6230971	93
6230972	93
6230973	95
Blank	105
LCS	100
MS	86
MSD	98
Limits:	64-126

Analysis Name: 16b Energetics by 8330A
Batch number: 110800004A

	2-Nitro-m-xylene
6230974	93
Blank	111
LCS	120
LCSD	116
Limits:	50-134

Analysis Name: 16a Energetics by 8330A
Batch number: 110820004A

	2-Nitro-m-xylene
6230971	106
6230972	108
6230973	110
Blank	102
LCS	116
LCSD	115
MS	107
MSD	106
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Surrogate Quality Control

Batch number: 110820012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6230971	97	97
6230972	96	94
6230973	93	96
Blank	106	98
LCS	103	104
LCSD	102	108
MS	89	101
MSD	109	108
Limits:	53-139	45-120

Analysis Name: 19a Alcohols by 8015B
Batch number: 110750026A

	Acetone
6230971	89
6230972	92
6230973	93
Blank	108
LCS	106
MS	85
MSD	83
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 110760025A

	Tetramethylene glycol
6230971	42
6230972	101
6230973	101
Blank	100
LCS	101
MS	128
MSD	123
Limits:	29-137

Analysis Name: 20b Terphenyls by 8015B
Batch number: 110760034A

	n-Triacontane-d62
6230974	17*
Blank	22*
LCS	23*
LCSD	37*
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 110760035A

	Chlorobenzene	Orthoterphenyl

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Surrogate Quality Control

6230974	94	103
Blank	91	100
LCS	89	102
LCSD	97	108
Limits:	28-152	52-131

Analysis Name: 21b Glycols by 8015B
Batch number: 110800029A

	Tetramethylene glycol
6230974	78
Blank	95
LCS	103
MS	137*
MSD	103
Limits:	77-119

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110820006A

	n-Triacontane-d62
6230971	71
6230972	70
6230973	71
Blank	75
LCS	74
MS	96
MSD	88
Limits:	50-150

Analysis Name: 19b Alcohols by 8015B
Batch number: 110820031A

	Acetone
6230974	99
Blank	97
LCS	96
MS	96
MSD	95
Limits:	54-147

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110820032A

	Chlorobenzene	Orthoterphenyl
6230971	70	88
6230972	63	79
6230973	68	94
Blank	89	97
LCS	90	106
MS	83	100
MSD	77	96

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237534
Reported: 04/06/11 at 08:54 AM

Surrogate Quality Control

Limits: 37-125 47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1237534 Sample# 6230971-75

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-137-SA5A-SB-4.0-5.0	03.15.11	1019	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-137-SA5A-SB-4.5	03.15.11	1015	SOIL	NONE	5-Encores										X	X	X										
SL-132-SA5A-SB-2.0-3.0	03.15.11	1537	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-132-SA5A-SB-2.5	03.15.11	1533	SOIL	NONE	5-Encores										X	X	X										
SL-138-SA5A-SB-4.0-5.0	03.15.11	1436	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-138-SA5A-SB-4.5	03.15.11	1432	SOIL	NONE	5-Encores										X	X	X										
EB07-SA5A-031511	03.15.11	1000	WATER	NONE	9-1L amber bottles			X X	X	X								X			X	X		X			1 extra liter for backup
EB07-SA5A-031511	03.15.11	1000	WATER	HCl	11-40mL VOA vials										X	X	X									X	
EB07-SA5A-031511	03.15.11	1000	WATER	NONE	4-40mL VOA vials														X						X		
EB07-SA5A-031511	03.15.11	1000	WATER	NONE	1-500mL poly		X				X	X	X														
EB07-SA5A-031511	03.15.11	1000	WATER	HNO3	1-500mL poly	X																					
EB07-SA5A-031511	03.15.11	1000	WATER	NONE	1-250mL glass															X							
EB07-SA5A-031511	03.15.11	1000	WATER	NaOH	1-500mL poly																		X				
TB-031511	03.15.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	03/15/2011 / 17:00	Irving Bidard 3/16/11 1000	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1432 5441, ...5463	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/17/2011
Group Number: 1237755
SDG: DE106
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-146-SA5A-SB-3.0-4.0 Soil	6232220
SL-128-SA5A-SB-4.0-5.0 Soil	6232221
SL-128-SA5A-SB-9.0-10.0 Soil	6232222
SL-133-SA5A-SB-4.0-5.0 Soil	6232223
TB-031611 Water	6232224

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-146-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SB-3.0-4.0

LLI Sample # SW 6232220
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 10:16

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-1 SDG#: DE106-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.9
06192	Methylene Chloride	75-09-2	0.67	J	0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-146-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SB-3.0-4.0

LLI Sample # SW 6232220
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 10:16

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-1 SDG#: DE106-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.3	U	4.3	13		18.88
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	192	U	192	384		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1

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Sample Description: SL-146-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SB-3.0-4.0

LLI Sample # SW 6232220
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 10:16

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-1 SDG#: DE106-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.92	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	1.3	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	1.8	J	0.76	1.9		1

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Sample Description: **SL-146-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SB-3.0-4.0

LLI Sample # SW 6232220
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 10:16

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-1 SDG#: DE106-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	1.2	J	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.69
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1

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Sample Description: SL-146-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SB-3.0-4.0

LLI Sample # SW 6232220
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Project Name: SSFL Area IV Collocated Soil Sampling

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106-1 SDG#: DE106-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.92	U	0.92	2.8		2
10199	EFH (C15-C20)	n.a.	0.92	U	0.92	2.8		2
10199	EFH (C21-C30)	n.a.	5.8		0.92	2.8		2
10199	EFH (C30 - C40)	n.a.	27		0.92	2.8		2
10199	EFH (C8-C11)	n.a.	0.92	U	0.92	2.8		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Sample Description: **SL-146-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SB-3.0-4.0

LLI Sample # SW 6232220
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 10:16

Submitted: 03/17/2011 09:35
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-1 SDG#: DE106-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,900		5.73	22.8		1
07914	Boron	7440-42-8	2.36	J	1.01	5.70		1
01650	Calcium	7440-70-2	2,740		6.98	22.8		1
01654	Iron	7439-89-6	26,700		5.37	22.8		1
01656	Lithium	7439-93-2	28.4		0.25	2.3		1
01657	Magnesium	7439-95-4	5,140		2.89	11.4		1
06958	Manganese	7439-96-5	293		0.0889	0.570		1
10145	Phosphorus	7723-14-0	197		0.638	11.4		1
01662	Potassium	7440-09-7	1,610		20.5	57.0		1
01667	Sodium	7440-23-5	92.8	J	42.5	114		1
07968	Strontium	7440-24-6	24.5		0.0706	0.570		1
06969	Tin	7440-31-5	3.32	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,230		0.433	1.14		1
10146	Zirconium	7440-67-7	2.32	J	0.957	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.94		0.0911	0.456		2
06126	Barium	7440-39-3	134		0.123	0.456		2
06127	Beryllium	7440-41-7	1.39		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0763	J	0.0456	0.114		2
06131	Chromium	7440-47-3	32.0		0.137	0.456		2
06132	Cobalt	7440-48-4	6.81		0.0228	0.114		2
06133	Copper	7440-50-8	9.05		0.0745	0.451		2
06135	Lead	7439-92-1	11.0		0.0118	0.228		2
06138	Molybdenum	7439-98-7	1.00		0.0570	0.114		2
06139	Nickel	7440-02-0	15.5		0.114	0.456		2
06141	Selenium	7782-49-2	0.201	J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0909	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.350		0.0342	0.114		2
06148	Vanadium	7440-62-2	60.6		0.0251	0.114		2
06149	Zinc	7440-66-6	73.2		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.1		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.23	1.2		1

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Sample Description: SL-146-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SB-3.0-4.0

LLI Sample # SW 6232220
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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106-1 SDG#: DE106-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	380		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-146-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110761AA	03/17/2011	16:06	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110761AA	03/17/2011	14:05	Jason M Long	18.88
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107623886	03/17/2011	12:53	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107623886	03/17/2011	13:07	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107623886	03/17/2011	13:07	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107623886	03/17/2011	12:54	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11082SLE026	04/01/2011	10:51	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/29/2011	06:59	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011	13:11	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11082SLE026	03/24/2011	04:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011	03:00	Sherry L Morrow	1

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Sample Description: **SL-146-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SB-3.0-4.0

LLI Sample # SW 6232220
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 10:16

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-1 SDG#: DE106-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34A	03/21/2011 15:29	Marie D John	22.69
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107623886	03/17/2011 12:53	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/26/2011 21:15	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/23/2011 22:18	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 15:38	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 20:03	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	110800032A	03/21/2011 17:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110760025A	03/18/2011 22:45	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/28/2011 14:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110760025A	03/17/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110800032A	03/21/2011 15:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
07914	Boron	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
01650	Calcium	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
01654	Iron	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
01656	Lithium	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
06969	Tin	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
06970	Titanium	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110805708002	03/22/2011 21:03	John P Hook	1
06124	Antimony	SW-846 6020	1	110801026001A	03/25/2011 13:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110801026001A	03/25/2011 13:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110801026001D	03/25/2011 13:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110801026001A	03/25/2011 13:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110801026001A	03/25/2011 13:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110801026001A	03/25/2011 13:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110801026001A	03/25/2011 13:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110871026001A	03/29/2011 08:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110801026001A	03/25/2011 13:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110801026001C	03/25/2011 13:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110801026001A	03/25/2011 13:27	Choon Y Tian	2

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Sample Description: **SL-146-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SB-3.0-4.0

LLI Sample # SW 6232220
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 10:16

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-1 SDG#: DE106-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	110801026001B	03/25/2011 13:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110801026001A	03/25/2011 13:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110801026001A	03/25/2011 13:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110801026001A	03/25/2011 13:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110801026001A	03/25/2011 13:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110805711002	03/22/2011 07:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110805708002	03/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110801026001	03/21/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110871026001	03/28/2011 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110805711002	03/21/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11080080201A	03/22/2011 00:15	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11080080201A	03/22/2011 00:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11080080202A	03/29/2011 02:38	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 19:07	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11084102201A	03/25/2011 16:16	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11080080201A	03/21/2011 17:33	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11080080202A	03/21/2011 17:33	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11084102201A	03/25/2011 10:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101A	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401A	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-128-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-4.0-5.0

LLI Sample # SW 6232221
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:49

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-2 SDG#: DE106-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.2		0.92
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.92
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.92
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.92
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.92
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.92
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.92
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.92
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.92
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.92
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.92
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.92
06192	Ethylbenzene	100-41-4	0.07	J	0.06	4.1		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.92
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.92
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.92
06192	Methylene Chloride	75-09-2	0.80	J	0.25	4.1		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.92

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Sample Description: SL-128-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-4.0-5.0

LLI Sample # SW 6232221
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:49

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-2 SDG#: DE106-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.92
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.92
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.92
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.92
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.92
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.4
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	187	U	187	375		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1

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Sample Description: SL-128-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-4.0-5.0

LLI Sample # SW 6232221
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:49

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-2 SDG#: DE106-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.3		5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.3		5
10138	Benzo(a)pyrene	50-32-8	3.7	U	3.7	9.3		5
10138	Benzo(b)fluoranthene	205-99-2	5.7	J	3.7	9.3		5
10138	Benzo(g,h,i)perylene	191-24-2	3.7	U	3.7	9.3		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.3		5
10138	Di-n-butylphthalate	84-74-2	57	J	33	100		5
10138	Chrysene	218-01-9	1.9	U	1.9	9.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.3		5
10138	Fluoranthene	206-44-0	3.7	U	3.7	9.3		5

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Sample Description: **SL-128-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-4.0-5.0

LLI Sample # SW 6232221
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:49

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-2 SDG#: DE106-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	3.7	U	3.7	9.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.3		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3		5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.3		5
10138	Pyrene	129-00-0	3.7	U	3.7	9.3		5

Di-n-butylphthalate was detected in the method blank at a concentration of 11 ug/kg. The blank value was not subtracted from the analytical result.

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.51
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-4.0-5.0

LLI Sample # SW 6232221
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14420 Albemarle Point Place
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106-2 SDG#: DE106-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.48	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.7		5
10199	EFH (C15-C20)	n.a.	2.2	U	2.2	6.7		5
10199	EFH (C21-C30)	n.a.	49		2.2	6.7		5
10199	EFH (C30 - C40)	n.a.	160		2.2	6.7		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.7		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Sample Description: **SL-128-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-4.0-5.0

LLI Sample # SW 6232221
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:49

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-2 SDG#: DE106-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.43	21.6		1
07914	Boron	7440-42-8	2.08	J	0.962	5.40		1
01650	Calcium	7440-70-2	2,710		6.62	21.6		1
01654	Iron	7439-89-6	20,100		5.09	21.6		1
01656	Lithium	7439-93-2	22.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,540		2.74	10.8		1
06958	Manganese	7439-96-5	280		0.0843	0.540		1
10145	Phosphorus	7723-14-0	366		0.605	10.8		1
01662	Potassium	7440-09-7	2,860		19.4	54.0		1
01667	Sodium	7440-23-5	88.0	J	40.3	108		1
07968	Strontium	7440-24-6	18.3		0.0670	0.540		1
06969	Tin	7440-31-5	2.85	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,100		0.411	1.08		1
10146	Zirconium	7440-67-7	1.52	J	0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.231		0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.10		0.0881	0.441		2
06126	Barium	7440-39-3	110		0.119	0.441		2
06127	Beryllium	7440-41-7	0.798		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.317		0.0441	0.110		2
06131	Chromium	7440-47-3	21.8		0.132	0.441		2
06132	Cobalt	7440-48-4	6.87		0.0220	0.110		2
06133	Copper	7440-50-8	11.3		0.0713	0.432		2
06135	Lead	7439-92-1	11.3		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.630		0.0551	0.110		2
06139	Nickel	7440-02-0	14.2		0.110	0.441		2
06141	Selenium	7782-49-2	0.211	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0321	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.352		0.0330	0.110		2
06148	Vanadium	7440-62-2	43.7		0.0242	0.110		2
06149	Zinc	7440-66-6	89.5		0.617	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0736	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.3		0.90	1.7		1

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Sample Description: SL-128-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-4.0-5.0

LLI Sample # SW 6232221
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:49

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-2 SDG#: DE106-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	448		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.38		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-128-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110761AA	03/17/2011	16:29	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110761AA	03/17/2011	14:25	Jason M Long	22.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107623886	03/17/2011	12:59	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107623886	03/17/2011	13:07	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107623886	03/17/2011	13:07	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107623886	03/17/2011	13:00	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11082SLE026	04/01/2011	11:08	Timothy J Trees	10

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106-2 SDG#: DE106-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/29/2011 07:24	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011 13:43	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11082SLE026	03/24/2011 04:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34A	03/21/2011 14:00	Marie D John	21.51
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107623886	03/17/2011 13:00	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/26/2011 21:58	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/23/2011 22:27	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 15:56	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 20:29	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	110800032A	03/21/2011 18:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110760025A	03/18/2011 23:03	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/29/2011 05:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110760025A	03/17/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110800032A	03/21/2011 15:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
07914	Boron	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
01650	Calcium	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
01654	Iron	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
01656	Lithium	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
06958	Manganese	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
01662	Potassium	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
01667	Sodium	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
07968	Strontium	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
06969	Tin	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
06970	Titanium	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110805708002	03/22/2011 21:14	John P Hook	1
06124	Antimony	SW-846 6020	1	110801026001A	03/25/2011 13:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110801026001A	03/25/2011 13:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110801026001D	03/25/2011 13:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110801026001A	03/25/2011 13:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110801026001A	03/25/2011 13:31	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-4.0-5.0

LLI Sample # SW 6232221
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:49

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-2 SDG#: DE106-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110801026001A	03/25/2011 13:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110801026001A	03/25/2011 13:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110871026001A	03/29/2011 08:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110801026001A	03/25/2011 13:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110801026001C	03/25/2011 13:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110801026001A	03/25/2011 13:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110801026001B	03/25/2011 13:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110801026001A	03/25/2011 13:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110801026001A	03/25/2011 13:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110801026001A	03/25/2011 13:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110801026001A	03/25/2011 13:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110805711002	03/22/2011 07:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110805708002	03/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110801026001	03/21/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110871026001	03/28/2011 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110805711002	03/21/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11080080201A	03/22/2011 01:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11080080201A	03/22/2011 01:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11080080202A	03/29/2011 03:50	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11080243201A	03/22/2011 19:24	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11084102201A	03/25/2011 16:20	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11080080201A	03/21/2011 17:33	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11080080202A	03/21/2011 17:33	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11084102201A	03/25/2011 10:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101A	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401A	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-9.0-10.0

LLI Sample # SW 6232222
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:58

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-3 SDG#: DE106-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		1.04
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.04
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.04
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.04
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.04
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.04
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		1.04
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.04
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.04
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1.04
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.04
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.04
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.04
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1.04
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1.04
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1.04
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		1.04
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.04
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.04
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.04
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.04
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.04
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.04
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.04
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.04
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.04
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.04
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.04
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1.04
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1.04
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.04
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		1.04
06192	Methylene Chloride	75-09-2	0.73	J	0.27	4.4		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.04

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-128-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-9.0-10.0

LLI Sample # SW 6232222
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:58

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-3 SDG#: DE106-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1.04
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.04
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.04
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.04
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.04
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.04
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.04
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		26.88
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	176	U	176	352		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-128-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-9.0-10.0

LLI Sample # SW 6232222
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:58

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-3 SDG#: DE106-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.8		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.8		5
10138	Benzo(a)anthracene	56-55-3	3.5	U	3.5	8.8		5
10138	Benzo(a)pyrene	50-32-8	11		3.5	8.8		5
10138	Benzo(b)fluoranthene	205-99-2	16		3.5	8.8		5
10138	Benzo(g,h,i)perylene	191-24-2	4.9	J	3.5	8.8		5
10138	Benzo(k)fluoranthene	207-08-9	3.5	U	3.5	8.8		5
10138	Di-n-butylphthalate	84-74-2	56	J	32	95		5
10138	Chrysene	218-01-9	4.9	J	1.8	8.8		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.8		5
10138	Fluoranthene	206-44-0	3.5	U	3.5	8.8		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.8		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-128-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-9.0-10.0

LLI Sample # SW 6232222
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:58

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-3 SDG#: DE106-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.8		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8		5
10138	Di-n-octylphthalate	117-84-0	52	J	32	95		5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.8		5
10138	Pyrene	129-00-0	3.5	U	3.5	8.8		5

Reporting limits were raised due to interference from the sample matrix.

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 11 ug/kg
di-n-octylphthalate 11 ug/kg
These blank values were not subtracted from the analytical results.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.26
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1

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Sample Description: SL-128-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-9.0-10.0

LLI Sample # SW 6232222
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:58

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-3 SDG#: DE106-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.53	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	2.1		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	8.1		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	9.5	U	9.5	13		1
08283	Ethylene glycol	107-21-1	7.4	U	7.4	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the

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SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-9.0-10.0

LLI Sample # SW 6232222
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:58

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-3 SDG#: DE106-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limits attainable.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,200		5.21	20.7		1
07914	Boron	7440-42-8	2.01	J	0.922	5.18		1
01650	Calcium	7440-70-2	3,140		6.35	20.7		1
01654	Iron	7439-89-6	20,100		4.88	20.7		1
01656	Lithium	7439-93-2	22.6		0.23	2.1		1
01657	Magnesium	7439-95-4	4,390		2.63	10.4		1
06958	Manganese	7439-96-5	283		0.0808	0.518		1
10145	Phosphorus	7723-14-0	342		0.580	10.4		1
01662	Potassium	7440-09-7	2,820		18.7	51.8		1
01667	Sodium	7440-23-5	308		38.7	104		1
07968	Strontium	7440-24-6	21.3		0.0643	0.518		1
06969	Tin	7440-31-5	2.73	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,090		0.394	1.04		1
10146	Zirconium	7440-67-7	1.51	J	0.871	5.18		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.174	J	0.0622	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.98		0.0829	0.415		2
06126	Barium	7440-39-3	112		0.112	0.415		2
06127	Beryllium	7440-41-7	0.745		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.264		0.0415	0.104		2
06131	Chromium	7440-47-3	20.8		0.124	0.415		2
06132	Cobalt	7440-48-4	6.43		0.0207	0.104		2
06133	Copper	7440-50-8	10.9		0.0671	0.407		2
06135	Lead	7439-92-1	13.2		0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.749		0.0518	0.104		2
06139	Nickel	7440-02-0	13.2		0.104	0.415		2
06141	Selenium	7782-49-2	0.176	J	0.0415	0.415		2
06142	Silver	7440-22-4	0.0326	J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.331		0.0311	0.104		2
06148	Vanadium	7440-62-2	41.8		0.0228	0.104		2
06149	Zinc	7440-66-6	134		0.580	3.11		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.183		0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: SL-128-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-9.0-10.0

LLI Sample # SW 6232222
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:58

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-3 SDG#: DE106-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.7		0.85	1.6		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.21	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	320		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.89		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	5.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-128-SA5A-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110761AA	03/17/2011 16:51	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110761AA	03/17/2011 14:45	Jason M Long	26.88
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107623886	03/17/2011 12:56	Larry E Bevins	n.a.

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Sample Description: SL-128-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-9.0-10.0

LLI Sample # SW 6232222
LLI Group # 1237755
Account # 13013

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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106-3 SDG#: DE106-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107623886	03/17/2011 13:07	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107623886	03/17/2011 13:07	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107623886	03/17/2011 12:57	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11082SLE026	04/01/2011 11:24	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/29/2011 07:49	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011 14:14	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11082SLE026	03/24/2011 04:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11076A34A	03/18/2011 23:44	Elizabeth J Marin	26.26
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107623886	03/17/2011 12:56	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/26/2011 22:40	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/23/2011 22:37	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 16:15	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 19:12	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110800032A	03/21/2011 18:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110780020A	03/19/2011 21:16	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/29/2011 07:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110780020A	03/19/2011 07:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110800032A	03/21/2011 15:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1
07914	Boron	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1
01650	Calcium	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1
01654	Iron	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1
01656	Lithium	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1
06958	Manganese	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1
01662	Potassium	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1
01667	Sodium	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1
07968	Strontium	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1
06969	Tin	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1
06970	Titanium	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1

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Sample Description: **SL-128-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-9.0-10.0

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106-3 SDG#: DE106-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110805708002	03/22/2011 21:18	John P Hook	1
06124	Antimony	SW-846 6020	1	110801026001A	03/25/2011 13:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110801026001A	03/25/2011 13:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110801026001D	03/25/2011 13:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110801026001A	03/25/2011 13:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110801026001A	03/25/2011 13:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110801026001A	03/25/2011 13:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110801026001A	03/25/2011 13:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110871026001A	03/29/2011 08:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110801026001A	03/25/2011 13:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110801026001C	03/25/2011 13:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110801026001A	03/25/2011 13:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110801026001B	03/25/2011 13:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110801026001A	03/25/2011 13:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110801026001A	03/25/2011 13:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110801026001A	03/25/2011 13:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110801026001A	03/25/2011 13:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110805711002	03/22/2011 07:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110805708002	03/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110801026001	03/21/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110871026001	03/28/2011 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110805711002	03/21/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11080080201A	03/22/2011 01:46	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11080080201A	03/22/2011 01:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11080080202A	03/29/2011 04:38	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 19:30	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11084102201A	03/25/2011 16:21	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11080080201A	03/21/2011 17:33	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11080080202A	03/21/2011 17:33	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11084102201A	03/25/2011 10:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101B	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401B	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-133-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SB-4.0-5.0

LLI Sample # SW 6232223
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 15:18

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-4 SDG#: DE106-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.6		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.6		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.83
06192	Methylene Chloride	75-09-2	0.64	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.83

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Sample Description: SL-133-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SB-4.0-5.0

LLI Sample # SW 6232223
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 15:18

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-4 SDG#: DE106-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.83
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.19
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	188	U	188	375		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1

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Sample Description: SL-133-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SB-4.0-5.0

LLI Sample # SW 6232223
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 15:18

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-4 SDG#: DE106-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	4.5	J	3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	6.9	J	3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	3.7	U	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.2		5
10138	Di-n-butylphthalate	84-74-2	57	J	33	100		5
10138	Chrysene	218-01-9	1.8	U	1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2		5
10138	Fluoranthene	206-44-0	3.7	U	3.7	9.2		5

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Sample Description: **SL-133-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SB-4.0-5.0

LLI Sample # SW 6232223
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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106-4 SDG#: DE106-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.2		5
10138	Pyrene	129-00-0	3.7	U	3.7	9.2		5

Reporting limits were raised due to interference from the sample matrix.

Di-n-butylphthalate was detected in the method blank at a concentration of 11 ug/kg. The blank value was not subtracted from the analytical result.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.39
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SB-4.0-5.0

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106-4 SDG#: DE106-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.87	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	2.3		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	9.9		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-133-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SB-4.0-5.0

LLI Sample # SW 6232223
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 15:18

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-4 SDG#: DE106-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		5.55	22.1		1
07914	Boron	7440-42-8	2.37	J	0.983	5.52		1
01650	Calcium	7440-70-2	2,490		6.77	22.1		1
01654	Iron	7439-89-6	20,400		5.20	22.1		1
01656	Lithium	7439-93-2	23.1		0.24	2.2		1
01657	Magnesium	7439-95-4	4,260		2.80	11.0		1
06958	Manganese	7439-96-5	284		0.0861	0.552		1
10145	Phosphorus	7723-14-0	335		0.618	11.0		1
01662	Potassium	7440-09-7	2,910		19.9	55.2		1
01667	Sodium	7440-23-5	185		41.2	110		1
07968	Strontium	7440-24-6	18.7		0.0685	0.552		1
06969	Tin	7440-31-5	2.74	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,100		0.420	1.10		1
10146	Zirconium	7440-67-7	1.57	J	0.927	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.23		0.0866	0.433		2
06126	Barium	7440-39-3	105		0.117	0.433		2
06127	Beryllium	7440-41-7	0.725		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.162		0.0433	0.108		2
06131	Chromium	7440-47-3	19.8		0.130	0.433		2
06132	Cobalt	7440-48-4	6.14		0.0217	0.108		2
06133	Copper	7440-50-8	9.32		0.0729	0.442		2
06135	Lead	7439-92-1	6.77		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.647		0.0541	0.108		2
06139	Nickel	7440-02-0	12.4		0.108	0.433		2
06141	Selenium	7782-49-2	0.140	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0304	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.293		0.0325	0.108		2
06148	Vanadium	7440-62-2	39.2		0.0238	0.108		2
06149	Zinc	7440-66-6	72.8		0.606	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.205		0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.90	1.7		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-133-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SB-4.0-5.0

LLI Sample # SW 6232223
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 15:18

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-4 SDG#: DE106-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	355		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-133-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110761AA	03/17/2011 17:13	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110761AA	03/17/2011 15:05	Jason M Long	21.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107623886	03/17/2011 13:02	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107623886	03/17/2011 13:07	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107623886	03/17/2011 13:07	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107623886	03/17/2011 13:05	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11082SLE026	04/01/2011 11:41	Timothy J Trees	10

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Sample Description: **SL-133-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SB-4.0-5.0

LLI Sample # SW 6232223
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 15:18

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-4 SDG#: DE106-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/29/2011 08:14	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011 14:45	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11082SLE026	03/24/2011 04:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11076A34A	03/19/2011 00:20	Elizabeth J Marin	20.39
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107623886	03/17/2011 13:03	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/26/2011 23:22	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/23/2011 22:46	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 16:33	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 19:38	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110800032A	03/21/2011 18:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110760025A	03/19/2011 00:30	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/29/2011 03:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110760025A	03/17/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110800032A	03/21/2011 15:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
07914	Boron	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
01650	Calcium	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
01654	Iron	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
01656	Lithium	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
06958	Manganese	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
01662	Potassium	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
01667	Sodium	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
07968	Strontium	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
06969	Tin	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
06970	Titanium	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110805708002	03/22/2011 21:22	John P Hook	1
06124	Antimony	SW-846 6020	1	110801026001A	03/25/2011 13:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110801026001A	03/25/2011 13:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110801026001D	03/25/2011 13:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110801026001A	03/25/2011 13:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110801026001A	03/25/2011 13:37	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-133-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SB-4.0-5.0

LLI Sample # SW 6232223
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 15:18

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-4 SDG#: DE106-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110801026001A	03/25/2011 13:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110801026001A	03/25/2011 13:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110871026001A	03/29/2011 08:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110801026001A	03/25/2011 13:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110801026001C	03/25/2011 13:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110801026001A	03/25/2011 13:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110801026001B	03/25/2011 13:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110801026001A	03/25/2011 13:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110801026001A	03/25/2011 13:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110801026001A	03/25/2011 13:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110801026001A	03/25/2011 13:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110805711002	03/22/2011 07:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110805708002	03/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110801026001	03/21/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110871026001	03/28/2011 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110805711002	03/21/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11080080201A	03/22/2011 02:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11080080201A	03/22/2011 02:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11080080202A	03/29/2011 05:02	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11080243201A	03/22/2011 19:47	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11084102201A	03/25/2011 16:22	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11080080201A	03/21/2011 17:33	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11080080202A	03/21/2011 17:33	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11084102201A	03/25/2011 10:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101B	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401B	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-031611 Water**
SSFL Area IV Collocated Soil Sampling
TB-031611

LLI Sample # WW 6232224
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 08:00

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-5 SDG#: DE106-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-031611 Water**
SSFL Area IV Collocated Soil Sampling
TB-031611

LLI Sample # WW 6232224
LLI Group # 1237755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 08:00

Submitted: 03/17/2011 09:35
Reported: 04/06/2011 08:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

106-5 SDG#: DE106-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110772AA	03/18/2011	16:39	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110781AA	03/19/2011	07:51	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110772AA	03/18/2011	16:39	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110781AA	03/19/2011	07:51	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11079A20A	03/21/2011	12:23	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11079A20A	03/21/2011	12:23	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110761AA	Sample number(s): 6232220-6232223									
Acetone	6.7	U	6.7	8.0	ug/kg	157	156	32-209	1	30
Benzene	0.10	U	0.10	4.0	ug/kg	102	103	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	96	100	79-120	4	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	120	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	91	92	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	81	85	70-120	4	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	84	81	32-162	4	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	125	126	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	108	108	72-120	0	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	108	110	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	98	100	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	90	90	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	95	97	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	82	79	37-154	4	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	90	95	43-146	5	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	101	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	80	79	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98	101	78-120	3	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98	98	79-120	0	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	77	74	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	95	102	58-120	7	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	83	87	77-120	5	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96	99	80-120	4	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100	100	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	95	98	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	96	98	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	96	97	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	63	63	20-120	0	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100	100	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	98	101	71-129	3	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	109	107	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	100	101	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	100	101	79-120	1	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	100	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97	101	80-120	4	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	91	92	72-123	0	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	99	99	77-120	0	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	89	91	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86	90	77-120	5	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	97	99	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	115	112	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	105	103	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	99	99	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	116	121	45-155	4	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	97	99	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	106	107	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	98	101	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	106	112	61-134	6	30
Methylene Chloride	0.59	J	0.24	4.0	ug/kg	109	109	76-124	0	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	107	109	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	93	95	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	89	92	80-120	3	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103	107	71-123	4	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	93	98	77-120	5	30
Toluene	0.15	J	0.08	4.0	ug/kg	98	100	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95	98	64-120	3	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94	97	68-120	4	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	92	93	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97	99	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97	97	80-120	0	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	96	93	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	103	107	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	103	106	79-120	3	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	103	105	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	83	81	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	95	97	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	93	96	80-120	3	30
Batch number: E110761AA	Sample number(s): 6232220-6232223									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	114	112	70-130	1	30
Batch number: E110781AA	Sample number(s): 6232224									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	113	117	80-123	3	30
Batch number: Y110772AA	Sample number(s): 6232224									
Acetone	6	U	6.	20	ug/l	114	110	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	94	93	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	100	97	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	102	99	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	98	95	80-120	3	30
Bromoform	1	U	1.	5	ug/l	78	79	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	88	86	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	111	110	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	95	94	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	96	94	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	90	92	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	105	103	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	92	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	79	81	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	84	84	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	105	103	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	69	72	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	96	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	94	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	61	62	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	91	89	56-126	2	30
Dibromochloromethane	1	U	1.	5	ug/l	90	89	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	93	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	97	96	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	94	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	69	68	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	97	79-120	2	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	117	115	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	87	83	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	93	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	91	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	92	92	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	96	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	102	101	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	98	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	90	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	92	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	94	79-120	2	30
Freon 113	2	U	2.	10	ug/l	85	81	69-128	6	30
Freon 133a	2	U	2.	5	ug/l	96	99	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	90	88	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	99	97	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	94	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	96	95	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	98	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	94	93	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	92	88	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	99	98	80-120	1	30
Styrene	1	U	1.	5	ug/l	85	84	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	97	95	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	90	89	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	94	80-121	5	30
Toluene	0.7	U	0.7	5	ug/l	93	92	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	96	94	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	94	92	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	92	91	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	98	95	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	94	92	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	99	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	98	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	97	96	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	73	74	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	91	91	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	90	90	80-120	1	30
Batch number: 11080SLE026	Sample number(s): 6232220-6232223									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	44		15-121		
Benzoic acid	170 U		170.	500	ug/kg	79		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	80		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	94		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	89		79-112		
Carbazole	17	U	17.	170	ug/kg	86		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	78		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	38		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	82		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	80		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	72		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	93		49-128		

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chlorophenol	17	U	17.	170	ug/kg	88		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	41		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	91		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	84		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	82		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	90		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	88		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	82		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	73		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	82		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	88		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	84		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	92		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	86		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	90		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Isophorone	17	U	17.	170	ug/kg	74		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	83		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	84		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	85		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	80		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	59		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	72		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	87		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	63		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	70		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	107		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	82		51-117		
Phenol	17	U	17.	170	ug/kg	79		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	91		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11081SLB026	Sample number(s): 6232220-6232223									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	103		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	106		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	112		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	117		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	130		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	132		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	119		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	129		65-131		
Di-n-butylphthalate	11	J	6.0	18	ug/kg	126		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	112		73-114		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	137		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	123		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	116		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	143		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	113		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	115		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	135*		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	106		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	103		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	101		55-118		
Di-n-octylphthalate	11	J	6.0	18	ug/kg	145		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	105		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	105		56-121		
Batch number: 11082SLE026	Sample number(s): 6232220-6232223									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	85		70-130		
Batch number: 11076A34A	Sample number(s): 6232222-6232223									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	77	78	67-119	0	30
Batch number: 11079A20A	Sample number(s): 6232224									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	127	75-135	7	30
Batch number: 11080A34A	Sample number(s): 6232220-6232221									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	70	67-119	5	30
Batch number: 110820004A	Sample number(s): 6232220-6232223									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	103	106	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	103	106	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	106		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100 U		100.	300	ug/kg	102		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	104		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	94		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	111		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800 U		800.	2,400	ug/kg	115		80-120		
RDX	50	U	50.	120	ug/kg	115		75-131		
Tetryl	61	U	61.	120	ug/kg	93		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
Batch number: 110800003A	Sample number(s): 6232220-6232223									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	102		80-126		
Batch number: 110820012A	Sample number(s): 6232220-6232223									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	92	80	36-106	14	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	98		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	112		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110820032A	Sample number(s): 6232220-6232223									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	102		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	109		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	113		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	80		66-113		
Batch number: 110760025A	Sample number(s): 6232220-6232221,6232223									
Diethylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Ethylene glycol	8.8	J	5.0	13	mg/kg	107		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Batch number: 110780020A	Sample number(s): 6232222									
Diethylene glycol	5.0	U	5.0	13	mg/kg	114		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	109		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	97		75-125		
Batch number: 110800032A	Sample number(s): 6232220-6232223									
Ethanol	100	U	100.	500	ug/kg	91		71-129		
Isopropanol	100	U	100.	500	ug/kg	91		75-125		
Methanol	100	U	100.	500	ug/kg	90		68-129		
Batch number: 110840024A	Sample number(s): 6232220-6232223									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	81		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 110801026001A	Sample number(s): 6232220-6232223									
Antimony	0.0600	U	0.0600	0.200	mg/kg	85		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	98		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	101		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	100		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	106		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	98		82-118		
Lead	0.0104	U	0.0104	0.200	mg/kg	99		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	106		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	99		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	96		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	102		78-122		
Batch number: 110801026001B	Sample number(s): 6232220-6232223									
Selenium	0.0400	U	0.0400	0.400	mg/kg	108		79-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110801026001C	Sample number(s): 6232220-6232223									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	105		78-122		
Batch number: 110801026001D	Sample number(s): 6232220-6232223									
Barium	0.108	U	0.108	0.400	mg/kg	98		79-121		
Batch number: 110805708002	Sample number(s): 6232220-6232223									
Aluminum	5.03	U	5.03	20.0	mg/kg	91		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	95		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	92		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		81-119		
Phosphorus	1.33	J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	94		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	103		79-121		
Tin	1.57	J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	91		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		
Batch number: 110805711002	Sample number(s): 6232220-6232223									
Mercury	0.0028	U	0.0028	0.0970	mg/kg	93		88-123		
Batch number: 110871026001A	Sample number(s): 6232220-6232223									
Copper	0.139	J	0.0660	0.400	mg/kg	110		80-120		
Batch number: 11080080201A	Sample number(s): 6232220-6232223									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	105		90-110		
Batch number: 11080080202A	Sample number(s): 6232220-6232223									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11080243201A	Sample number(s): 6232220-6232223									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11084102201A	Sample number(s): 6232220-6232223									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11080039401A	Sample number(s): 6232220-6232221									
18a pH by 9045C						100		95-105		
Batch number: 11080039401B	Sample number(s): 6232222-6232223									
18a pH by 9045C						100		95-105		
Batch number: 11080182101A	Sample number(s): 6232220-6232221									
32a OR Potential						100		98-102		
Batch number: 11080182101B	Sample number(s): 6232222-6232223									
32a OR Potential						100		98-102		
Batch number: 11095162401A	Sample number(s): 6232220-6232223									
Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11080SLE026	Sample number(s): 6232220-6232223 UNSPK: P230061								
Aniline	44	48	35-95	9	30				
Benzidine	43	46	35-141	7	30				
Benzoic acid	48	45	10-173	6	30				
Benzyl alcohol	76	77	67-115	3	30				
4-Bromophenyl-phenylether	90	90	67-129	2	30				
Butylbenzylphthalate	87	87	73-134	1	30				
Di-n-butylphthalate	85	86	67-123	2	30				
Carbazole	87	89	64-120	3	30				
4-Chloro-3-methylphenol	71*	73*	76-110	4	30				
4-Chloroaniline	49	53	23-95	8	30				
bis(2-Chloroethoxy)methane	79	78	75-104	1	30				
bis(2-Chloroethyl)ether	76	77	60-116	2	30				
bis(2-Chloroisopropyl)ether	65	67	55-142	3	30				
2-Chloronaphthalene	74	73	50-141	1	30				
2-Chlorophenol	84	86	73-121	3	30				
4-Chlorophenyl-phenylether	85	85	80-109	1	30				
Dibenzofuran	86	85	71-112	1	30				
1,2-Dichlorobenzene	82	84	66-108	3	30				
1,3-Dichlorobenzene	80	81	63-109	2	30				
1,4-Dichlorobenzene	81	82	70-100	2	30				
3,3'-Dichlorobenzidine	69	74	16-119	8	30				
2,4-Dichlorophenol	85	85	78-117	1	30				
Diethylphthalate	79	79	66-118	1	30				
2,4-Dimethylphenol	77*	78	78-110	2	30				
3,5-Dimethylphenol	86	86	70-130	2	30				
Dimethylphthalate	84	84	64-118	1	30				
4,6-Dinitro-2-methylphenol	28	24	24-116	15	30				
2,4-Dinitrophenol	20	16*	20-143	20	30				
2,4-Dinitrotoluene	72*	72*	73-113	0	30				
2,6-Dinitrotoluene	77	80	69-123	4	30				
1,2-Diphenylhydrazine	77	78	71-129	2	30				
bis(2-Ethylhexyl)phthalate	86	87	63-122	1	30				
Hexachlorobenzene	91	92	77-114	1	30				
Hexachlorobutadiene	88	85	62-120	2	30				
Hexachlorocyclopentadiene	29	23	10-153	24	30				
Hexachloroethane	61	63	57-109	3	30				
Isophorone	74	73	73-102	0	30				
2-Methylphenol	76	78	75-111	4	30				
4-Methylphenol	78	79	71-111	3	30				
2-Nitroaniline	89	91	67-125	2	30				
3-Nitroaniline	85	85	59-122	1	30				
4-Nitroaniline	64	65	52-112	4	30				
Nitrobenzene	72	72	72-106	1	30				
2-Nitrophenol	78	79	74-115	2	30				
4-Nitrophenol	63	63	54-113	1	30				
N-Nitroso-di-n-propylamine	65	66	60-116	3	30				
N-Nitrosodiphenylamine	93	94	86-145	2	30				
Di-n-octylphthalate	97	97	56-126	1	30				
Pentachlorophenol	78	78	28-127	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phenol	74	76	58-126	4	30				
1,2,4-Trichlorobenzene	89	88	72-115	1	30				
2,4,5-Trichlorophenol	87	85	78-109	1	30				
2,4,6-Trichlorophenol	90	89	77-115	0	30				
Batch number: 11081SLB026	Sample number(s): 6232220-6232223 UNSPK: P230061								
Acenaphthene	104	94	63-105	9	30				
Acenaphthylene	104	96	67-114	8	30				
Anthracene	100	94	60-122	6	30				
Benzo(a)anthracene	97	92	59-128	5	30				
Benzo(a)pyrene	106	100	45-138	6	30				
Benzo(b)fluoranthene	105	99	43-155	5	30				
Benzo(g,h,i)perylene	118	112	33-141	5	30				
Benzo(k)fluoranthene	106	98	42-144	7	30				
Butylbenzylphthalate	126	120	57-173	5	30				
Di-n-butylphthalate	89	84	65-148	4	30				
Chrysene	93	89	48-134	5	30				
Dibenz(a,h)anthracene	132	125	22-133	5	30				
Diethylphthalate	116	108	70-136	7	30				
Dimethylphthalate	114	105	74-118	8	30				
Bis(2-Ethylhexyl)phthalate	141	134	39-167	6	30				
Fluoranthene	92	83	26-166	7	30				
Fluorene	106	98	66-122	7	30				
Indeno(1,2,3-cd)pyrene	127	120	21-143	6	30				
1-Methylnaphthalene	104	95	72-123	9	30				
2-Methylnaphthalene	96	88	64-103	9	30				
Naphthalene	100	91	61-102	10	30				
N-Nitrosodimethylamine	101	92	48-113	9	30				
Di-n-octylphthalate	97	93	40-192	3	30				
Phenanthrene	76	69	12-165	7	30				
Pyrene	72	68	15-153	4	30				
Batch number: 11082SLE026	Sample number(s): 6232220-6232223 UNSPK: P230971								
N-Nitrosodimethylamine	74	70	70-130	5	30				
Batch number: 110820004A	Sample number(s): 6232220-6232223 UNSPK: P230971								
4-Amino-2,6-Dinitrotoluene	110	108	80-127	4	50				
2-Amino-4,6-Dinitrotoluene	109	108	80-137	3	50				
1,3-Dinitrobenzene	109	108	38-166	3	50				
2,4-Dinitrotoluene	105	104	80-131	3	50				
2,6-Dinitrotoluene	110	106	80-127	5	50				
HMX	100	100	63-128	3	50				
Nitrobenzene	101	100	80-125	2	50				
Nitroglycerin	100	100	80-120	2	50				
2-Nitrotoluene	110	110	80-122	2	50				
3-Nitrotoluene	110	109	72-119	3	50				
4-Nitrotoluene	108	107	80-125	3	50				
PETN	117	116	80-121	3	50				
RDX	104	104	75-129	2	50				
Tetryl	77	79	55-174	2	50				
1,3,5-Trinitrobenzene	101	100	82-126	3	50				
2,4,6-Trinitrotoluene	108	107	82-130	3	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110800003A	Sample number(s): 6232220-6232223 UNSPK: P230971								
25a Formaldehyde 8315A	88	98	80-120	11	50				
Batch number: 110820012A	Sample number(s): 6232220-6232223 UNSPK: P230061								
PCB-1016	92	107	29-146	14	50				
PCB-1260	104	110	39-149	6	50				
Batch number: 110820032A	Sample number(s): 6232220-6232223 UNSPK: P230971								
EFH (C12-C14)	93	83	49-123	10	20				
EFH (C15-C20)	114	109	49-123	5	20				
EFH (C21-C30)	123	120	49-123	3	20				
EFH (C30 - C40)	86	86	49-123	0	20				
EFH (C8-C11)	72	65	49-123	9	20				
Batch number: 110760025A	Sample number(s): 6232220-6232221,6232223 UNSPK: P230062								
Diethylene glycol	129*	140*	59-109	8	20				
Ethylene glycol	132*	145*	63-107	10	20				
Propylene glycol	132*	140*	63-107	6	20				
Batch number: 110780020A	Sample number(s): 6232222 UNSPK: P233377								
Diethylene glycol	54*	79	59-109	39*	20				
Ethylene glycol	82	94	63-107	13	20				
Propylene glycol	85	92	63-107	8	20				
Batch number: 110800032A	Sample number(s): 6232220-6232223 UNSPK: P233378								
Ethanol	75	77	48-130	3	20				
Isopropanol	76	78	12-149	2	20				
Methanol	73	80	43-138	9	20				
Batch number: 110840024A	Sample number(s): 6232220-6232223 UNSPK: 6232220								
m-Terphenyl	79	73*	75-125	9	20				
o-Terphenyl	95	87	75-125	9	20				
p-Terphenyl	77	72*	75-125	7	20				
Batch number: 110801026001A	Sample number(s): 6232220-6232223 UNSPK: P234510 BKG: P234510								
Antimony	49*	30*	75-125	44*	20	0.0689 J	0.0659 J	4 (1)	20
Arsenic	96	168*	75-125	17	20	5.95	7.11	18	20
Beryllium	127*	145*	75-125	7	20	0.921	1.06	14	20
Cadmium	131*	139*	75-125	6	20	0.0490 J	0.0639 J	26* (1)	20
Chromium	130*	145*	75-125	4	20	21.3	24.8	15	20
Cobalt	112	119	75-125	5	20	4.21	4.69	11	20
Lead	142*	153*	75-125	3	20	7.15	8.17	13	20
Nickel	118	129*	75-125	5	20	10.4	11.9	13	20
Silver	129*	137*	75-125	6	20	0.0780 J	0.0729 J	7 (1)	20
Thallium	115	113	75-125	1	20	0.303	0.265	14 (1)	20
Vanadium	116 (2)	160 (2)	75-125	7	20	45.4	51.3	12	20
Zinc	89 (2)	129 (2)	75-125	6	20	55.6	59.7	7	20
Batch number: 110801026001B	Sample number(s): 6232220-6232223 UNSPK: P234510 BKG: P234510								
Selenium	117	121	75-125	4	20	0.149 J	0.180 J	19 (1)	20
Batch number: 110801026001C	Sample number(s): 6232220-6232223 UNSPK: P234510 BKG: P234510								
Molybdenum	124	135*	75-125	8	20	0.882	0.983	11	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110801026001D	Sample number(s): 6232220-6232223 UNSPK: P234510 BKG: P234510								
Barium	75 (2)	165 (2)	75-125	9	20	82.2	92.1	11	20
Batch number: 110805708002	Sample number(s): 6232220-6232223 UNSPK: P234510 BKG: P234510								
Aluminum	1500 (2)	1202 (2)	75-125	2	20	20,400	20,300	0	20
Boron	95	96	84-115	3	20	2.12 J	1.92 J	10 (1)	20
Calcium	110 (2)	98 (2)	75-125	2	20	2,070	2,090	1	20
Iron	-1069 (2)	-1156 (2)	75-125	1	20	21,500	21,300	1	20
Lithium	103	103	82-114	1	20	21.1	21.5	2	20
Magnesium	129 (2)	79 (2)	75-125	2	20	3,810	3,800	0	20
Manganese	9*	11*	75-125	1	20	181	141	25*	20
Phosphorus	81	85	75-125	2	20	154	157	1	20
Potassium	107	107	75-125	1	20	1,330	1,330	0	20
Sodium	93	93	75-125	2	20	100	99.5	1 (1)	20
Strontium	96	95	75-115	1	20	20.3	20.2	0	20
Tin	86	87	80-110	2	20	2.77 J	2.78 J	0 (1)	20
Titanium	266 (2)	266 (2)	75-125	0	20	1,010	1,050	4	20
Zirconium	99	98	75-125	2	20	1.78 J	2.52 J	35* (1)	20
Batch number: 110805711002	Sample number(s): 6232220-6232223 UNSPK: P234510 BKG: P234510								
Mercury	93	89	65-135	4	20	0.0098 J	0.0050 J	65* (1)	20
Batch number: 110871026001A	Sample number(s): 6232220-6232223 UNSPK: P234510 BKG: P234510								
Copper	114	116	75-125	0	20	6.93	5.39	25*	20
Batch number: 11080080201A	Sample number(s): 6232220-6232223 UNSPK: 6232220 BKG: 6232220								
11a Anions by 300.0 - Fluoride	41*		80-120			2.0	2.4	17 (1)	20
11a Anions by 300.0 - Nitrate	90		80-120			2.7	2.8	3 (1)	20
Batch number: 11080080202A	Sample number(s): 6232220-6232223 UNSPK: 6232220 BKG: 6232220								
7a Perchlorate EPA 314.0	116		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11080243201A	Sample number(s): 6232220-6232223 UNSPK: P230061 BKG: P230061								
3a Cr VI by EPA 7199	92		75-125			0.28 J	0.20 U	200* (1)	20
Batch number: 11084102201A	Sample number(s): 6232220-6232223 UNSPK: 6232220 BKG: 6232220								
17a Cyanide by 9012B	109		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11080039401A	Sample number(s): 6232220-6232221 BKG: P230061								
18a pH by 9045C						6.93	6.92	0	1
Batch number: 11080039401B	Sample number(s): 6232222-6232223 BKG: 6232222								
18a pH by 9045C						6.89	6.89	0	1
Batch number: 11080182101A	Sample number(s): 6232220-6232221 BKG: P230061								
32a OR Potential						390	389	0	6
Batch number: 11080182101B	Sample number(s): 6232222-6232223 BKG: 6232222								
32a OR Potential						320	320	0	6

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11095162401A	Sample number(s): 6232220-6232223					BKG: P230973			
Moisture Content by 160.3						11.1	11.1	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110761AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6232220	98	99	99	94
6232221	97	97	100	93
6232222	97	98	99	93
6232223	98	100	98	94
Blank	98	101	99	94
LCS	100	103	100	99
LCSD	100	104	102	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110761AA

	Toluene-d8
6232220	95
6232221	99
6232222	95
6232223	95
Blank	94
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110781AA

	Toluene-d8
6232224	102
Blank	100
LCS	101
LCSD	100
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110772AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Surrogate Quality Control

6232224	106	99	100	97
Blank	105	97	101	97
LCS	108	99	101	99
LCSD	105	101	100	98
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11080SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6232220	74	80	77	66	85	82
6232221	82	91	81	76	100	84
6232222	79	86	82	74	93	84
6232223	80	87	88	73	96	84
Blank	64	68	71	57	72	77
LCS	80	85	87	70	93	90
MS	77	85	85	73	92	81
MSD	80	87	86	73	93	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11081SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6232220	97	93	96
6232221	88	88	66
6232222	99	98	74
6232223	96	95	76
Blank	102	96	105
LCS	117	106	111
MS	112	104	100
MSD	102	94	96
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11082SLE026

	N-Nitrosodimethylamine-d6
6232220	107
6232221	102
6232222	96
6232223	99
Blank	98
LCS	100
MS	100
MSD	100
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11076A34A

	Trifluorotoluene-F

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Surrogate Quality Control

6232222	77
6232223	73
Blank	82
LCS	91
LCSD	90
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11079A20A
Trifluorotoluene-F

6232224	80
Blank	80
LCS	124
LCSD	122
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11080A34A
Trifluorotoluene-F

6232220	67
6232221	89
Blank	83
LCS	84
LCSD	79
Limits:	61-122

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110800003A
Butyraldehyde

6232220	98
6232221	91
6232222	100
6232223	96
Blank	105
LCS	100
MS	86
MSD	98
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 110820004A
2-Nitro-m-xylene

6232220	106
6232221	108
6232222	112
6232223	107
Blank	102
LCS	116

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Surrogate Quality Control

LCSD	115	
MS	107	
MSD	106	

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110820012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6232220	80	82
6232221	92	71
6232222	97	76
6232223	90	76
Blank	106	98
LCS	103	104
LCSD	102	108
MS	89	101
MSD	109	108

Limits: 53-139 45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110760025A

	Tetramethylene glycol
6232220	80
6232221	83
6232223	86
Blank	100
LCS	101
MS	128
MSD	123

Limits: 29-137

Analysis Name: 21a Glycols by 8015B
Batch number: 110780020A

	Tetramethylene glycol
6232222	58
Blank	102
LCS	101
MS	98
MSD	90

Limits: 29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 110800032A

	Acetone
6232220	75
6232221	79
6232222	83
6232223	80
Blank	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237755
Reported: 04/06/11 at 08:54 AM

Surrogate Quality Control

LCS	97	
MS	75	
MSD	77	
Limits:	42-138	

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110820032A

	Chlorobenzene	Orthoterphenyl
6232220	79	101
6232221	83	96
6232222	82	97
6232223	78	94
Blank	89	97
LCS	90	106
MS	83	100
MSD	77	96
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110840024A

	n-Triacontane-d62
6232220	67
6232221	96
6232222	105
6232223	79
Blank	73
LCS	72
MS	73
MSD	71
Limits:	50-150

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acct#13013 Cap#1237755 sample#6232220-24

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS										
SL-146-SA5A-SB-3.0-4.0	03.16.11	1016	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Amended COC
SL-146-SA5A-SB-3.5	03.16.11	1011	SOIL	NONE	5-Encores										X	X	X										
SL-128-SA5A-SB-4.0-5.0	03.16.11	1249	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-128-SA5A-SB-4.5	03.16.11	1245	SOIL	NONE	5-Encores										X	X	X										
SL-128-SA5A-SB-9.0-10.0	03.16.11	1258	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-128-SA5A-SB-9.5	03.16.11	1253	SOIL	NONE	5-Encores										X	X	X										
SL-133-SA5A-SB-4.0-5.0	03.16.11	1518	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-133-SA5A-SB-4.5	03.16.11	1513	SOIL	NONE	5-Encores										X	X	X										
~~SL-134-SA5A-SB-2.5-3.5~~	~~03.16.11~~	~~1608~~	~~SOIL~~	~~NONE~~	~~4-16 oz jars~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
~~SL-134-SA5A-SB-3.0~~	~~03.16.11~~	~~1603~~	~~SOIL~~	~~NONE~~	~~5-Encores~~										~~X~~	~~X~~	~~X~~										
TB-031611	03.16.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/16/2011 / 17:00	Gary Hedrick LLI 3/17/11 935	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8695 1432 5474	

acct# 13013 Cap# 1237755 Sample# 6232220-24

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by SM 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 8010/8020/8/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-146-SA5A-SB-3.0-4.0	03.16.11	1016	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-146-SA5A-SB-3.5	03.16.11	1011	SOIL	NONE	5-Encores										X	X	X										
SL-128-SA5A-SB-4.0-5.0	03.16.11	1249	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-128-SA5A-SB-4.5	03.16.11	1245	SOIL	NONE	5-Encores										X	X	X										
SL-128-SA5A-SB-9.0-10.0	03.16.11	1258	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-128-SA5A-SB-9.5	03.16.11	1253	SOIL	NONE	5-Encores										X	X	X										
SL-133-SA5A-SB-4.0-5.0	03.16.11	1518	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-133-SA5A-SB-4.5	03.16.11	1513	SOIL	NONE	5-Encores										X	X	X										
SL-134-SA5A-SB-2.5-3.5	03.16.11	1608	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-134-SA5A-SB-3.0	03.16.11	1603	SOIL	NONE	5-Encores										X	X	X										
TB-031611	03.16.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	03/16/2011 / 17:00	Mary Herlach LLI 3/17/11 935	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1432 5474	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/18/2011
Group Number: 1237986
SDG: DE107
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-136-SA5A-SB-4.0-5.0 Soil	6233377
SL-139-SA5A-SB-2.5-3.5 Soil	6233378
SL-158-SA5A-SB-4.0-5.0 Soil	6233379
TB-031711 Water	6233380

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-136-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SB-4.0-5.0

LLI Sample # SW 6233377
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 11:35

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-1 SDG#: DE107-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		1.03
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.03
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.03
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.03
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.03
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		1.03
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		1.03
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.03
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.03
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1.03
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.03
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.03
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.03
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1.03
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1.03
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1.03
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		1.03
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.03
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.03
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.03
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.03
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.03
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		1.03
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.03
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.03
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.03
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.03
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.03
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1.03
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1.03
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.03
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		1.03
06192	Methylene Chloride	75-09-2	0.80	J	0.26	4.4		1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.03

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SB-4.0-5.0

LLI Sample # SW 6233377
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 11:35

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-1 SDG#: DE107-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1.03
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.03
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.03
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		1.03
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.03
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.03
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.03
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		25.51
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	177	U	177	354		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-136-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SB-4.0-5.0

LLI Sample # SW 6233377
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 11:35

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-1 SDG#: DE107-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-136-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SB-4.0-5.0

LLI Sample # SW 6233377
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 11:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-1 SDG#: DE107-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1

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Sample Description: **SL-136-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SB-4.0-5.0

LLI Sample # SW 6233377
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 11:35

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-1 SDG#: DE107-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	1.1	J	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.4	U	6.4	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.
Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1

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Sample Description: SL-136-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SB-4.0-5.0

LLI Sample # SW 6233377
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 11:35

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-1 SDG#: DE107-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		5.24	20.8		1
07914	Boron	7440-42-8	2.05	J	0.926	5.20		1
01650	Calcium	7440-70-2	2,090		6.38	20.8		1
01654	Iron	7439-89-6	22,300		4.90	20.8		1
01656	Lithium	7439-93-2	23.2		0.23	2.1		1
01657	Magnesium	7439-95-4	4,540		2.64	10.4		1
06958	Manganese	7439-96-5	216		0.0812	0.520		1
10145	Phosphorus	7723-14-0	141		0.583	10.4		1
01662	Potassium	7440-09-7	1,940		18.7	52.0		1
01667	Sodium	7440-23-5	112		38.8	104		1
07968	Strontium	7440-24-6	20.7		0.0645	0.520		1
06969	Tin	7440-31-5	2.95	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,110		0.395	1.04		1
10146	Zirconium	7440-67-7	1.43	J	0.874	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.126	J	0.0624	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.66		0.0833	0.416		2
06126	Barium	7440-39-3	81.1		0.112	0.416		2
06127	Beryllium	7440-41-7	0.869		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.0647	J	0.0416	0.104		2
06131	Chromium	7440-47-3	22.6		0.125	0.416		2
06132	Cobalt	7440-48-4	6.70		0.0208	0.104		2
06133	Copper	7440-50-8	6.05		0.0694	0.420		2
06135	Lead	7439-92-1	6.80		0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.847		0.0520	0.104		2
06139	Nickel	7440-02-0	11.9		0.104	0.416		2
06141	Selenium	7782-49-2	0.138	J	0.0416	0.416		2
06142	Silver	7440-22-4	0.0395	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.346		0.0312	0.104		2
06148	Vanadium	7440-62-2	43.4		0.0229	0.104		2
06149	Zinc	7440-66-6	59.4		0.583	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0765	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: **SL-136-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SB-4.0-5.0

LLI Sample # SW 6233377
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 11:35

Submitted: 03/18/2011 09:40
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-1 SDG#: DE107-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	369		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-136-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110811AA	03/22/2011 15:29	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110782AA	03/19/2011 12:50	Jason M Long	25.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107723892	03/18/2011 14:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107723892	03/18/2011 14:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107723892	03/18/2011 14:23	Christopher D Meeks	n.a.

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Sample Description: SL-136-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SB-4.0-5.0

LLI Sample # SW 6233377
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 11:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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107-1 SDG#: DE107-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107723892	03/18/2011 14:11	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11082SLE026	04/01/2011 11:58	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/29/2011 13:21	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011 15:17	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11082SLE026	03/24/2011 04:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34A	03/21/2011 17:55	Marie D John	26.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107723892	03/18/2011 14:10	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/27/2011 01:30	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/23/2011 22:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 16:52	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 15:21	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110800032A	03/21/2011 18:57	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110780020A	03/19/2011 21:33	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/29/2011 01:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110780020A	03/19/2011 07:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110800032A	03/21/2011 15:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
07914	Boron	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
01654	Iron	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
01656	Lithium	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
06958	Manganese	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
01662	Potassium	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
07968	Strontium	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
06969	Tin	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
06970	Titanium	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110805708002	03/22/2011 21:26	John P Hook	1
06124	Antimony	SW-846 6020	1	110801026001A	03/25/2011 13:40	Choon Y Tian	2

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Sample Description: **SL-136-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SB-4.0-5.0

LLI Sample # SW 6233377
LLI Group # 1237986
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CDM Federal Programs Corp.
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107-1 SDG#: DE107-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110801026001A	03/25/2011 13:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110801026001D	03/25/2011 13:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110801026001A	03/25/2011 13:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110801026001A	03/25/2011 13:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110801026001A	03/25/2011 13:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110801026001A	03/25/2011 13:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110871026001A	03/29/2011 08:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110801026001A	03/25/2011 13:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110801026001C	03/25/2011 13:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110801026001A	03/25/2011 13:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110801026001B	03/25/2011 13:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110801026001A	03/25/2011 13:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110801026001A	03/25/2011 13:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110801026001A	03/25/2011 13:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110801026001A	03/25/2011 13:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110805711002	03/22/2011 07:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110805708002	03/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110801026001	03/21/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110871026001	03/28/2011 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110805711002	03/21/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11080080201A	03/22/2011 02:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11080080201A	03/22/2011 02:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11080080202A	03/29/2011 05:26	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 19:53	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11084102201A	03/25/2011 16:23	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11080080201A	03/21/2011 17:33	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11080080202A	03/21/2011 17:33	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11084102201A	03/25/2011 10:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101B	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401B	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-139-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5A-SB-2.5-3.5

LLI Sample # SW 6233378
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:58

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-2 SDG#: DE107-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		1
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		1
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		1
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		1
06192	Methylene Chloride	75-09-2	0.87	J	0.26	4.4		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1

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Sample Description: **SL-139-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5A-SB-2.5-3.5

LLI Sample # SW 6233378
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:58

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-2 SDG#: DE107-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		1
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.81
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	55.0		18.2	36.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1

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Sample Description: **SL-139-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5A-SB-2.5-3.5

LLI Sample # SW 6233378
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:58

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-2 SDG#: DE107-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1

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Sample Description: **SL-139-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5A-SB-2.5-3.5

LLI Sample # SW 6233378
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:58

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-2 SDG#: DE107-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.64
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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Sample Description: SL-139-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5A-SB-2.5-3.5

LLI Sample # SW 6233378
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:58

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-2 SDG#: DE107-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	1.5		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		5.39	21.4		1
07914	Boron	7440-42-8	1.29	J	0.954	5.36		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-139-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5A-SB-2.5-3.5

LLI Sample # SW 6233378
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:58

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-2 SDG#: DE107-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,650		6.57	21.4		1
01654	Iron	7439-89-6	20,900		5.05	21.4		1
01656	Lithium	7439-93-2	18.5		0.24	2.1		1
01657	Magnesium	7439-95-4	4,490		2.72	10.7		1
06958	Manganese	7439-96-5	239		0.0836	0.536		1
10145	Phosphorus	7723-14-0	277		0.600	10.7		1
01662	Potassium	7440-09-7	1,650		19.3	53.6		1
01667	Sodium	7440-23-5	110		40.0	107		1
07968	Strontium	7440-24-6	18.7		0.0664	0.536		1
06969	Tin	7440-31-5	2.89	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,050		0.407	1.07		1
10146	Zirconium	7440-67-7	0.917	J	0.900	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0784	J	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.93		0.0866	0.433		2
06126	Barium	7440-39-3	61.5		0.117	0.433		2
06127	Beryllium	7440-41-7	0.569		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0665	J	0.0433	0.108		2
06131	Chromium	7440-47-3	17.9		0.130	0.433		2
06132	Cobalt	7440-48-4	5.40		0.0216	0.108		2
06133	Copper	7440-50-8	8.34		0.0700	0.424		2
06135	Lead	7439-92-1	4.97		0.0113	0.216		2
06138	Molybdenum	7439-98-7	0.500		0.0541	0.108		2
06139	Nickel	7440-02-0	10.3		0.108	0.433		2
06141	Selenium	7782-49-2	0.136	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0130	U	0.0130	0.108		2
06145	Thallium	7440-28-0	0.279		0.0325	0.108		2
06148	Vanadium	7440-62-2	36.1		0.0238	0.108		2
06149	Zinc	7440-66-6	54.8		0.606	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0182	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-139-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5A-SB-2.5-3.5

LLI Sample # SW 6233378
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:58

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-2 SDG#: DE107-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	338		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.49		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-139-SA5A-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110811AA	03/22/2011	15:52	Chelsea B Eastep	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110782AA	03/19/2011	13:10	Jason M Long	23.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107723892	03/18/2011	14:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107723892	03/18/2011	14:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107723892	03/18/2011	14:23	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107723892	03/18/2011	14:14	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11082SLE026	04/01/2011	12:32	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/29/2011	13:47	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011	15:49	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11082SLE026	03/24/2011	04:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011	03:00	Sherry L Morrow	1

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Sample Description: SL-139-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5A-SB-2.5-3.5

LLI Sample # SW 6233378
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:58

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-2 SDG#: DE107-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34A	03/21/2011 18:31	Marie D John	22.64
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107723892	03/18/2011 14:14	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/27/2011 02:12	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/23/2011 23:05	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 17:10	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 15:47	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110800032A	03/21/2011 19:12	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110780020A	03/19/2011 21:51	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/28/2011 16:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110780020A	03/19/2011 07:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110800032A	03/21/2011 15:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
07914	Boron	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
01654	Iron	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
01656	Lithium	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
06958	Manganese	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
07968	Strontium	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
06969	Tin	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
06970	Titanium	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110805708002	03/22/2011 21:30	John P Hook	1
06124	Antimony	SW-846 6020	1	110801026001A	03/25/2011 13:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110801026001A	03/25/2011 13:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110801026001D	03/25/2011 13:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110801026001A	03/25/2011 13:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110801026001A	03/25/2011 13:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110801026001A	03/25/2011 13:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110801026001A	03/25/2011 13:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110871026001A	03/29/2011 08:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110801026001A	03/25/2011 13:43	Choon Y Tian	2

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Sample Description: **SL-139-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5A-SB-2.5-3.5

LLI Sample # SW 6233378
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:58

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-2 SDG#: DE107-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	110801026001C	03/25/2011 13:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110801026001A	03/25/2011 13:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110801026001B	03/25/2011 13:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110801026001A	03/25/2011 13:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110801026001A	03/25/2011 13:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110801026001A	03/25/2011 13:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110801026001A	03/25/2011 13:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110805711002	03/22/2011 07:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110805708002	03/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110801026001	03/21/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110871026001	03/28/2011 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110805711002	03/21/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11080080201A	03/22/2011 02:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11080080201A	03/22/2011 02:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11080080202A	03/29/2011 05:50	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 20:21	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11084102201A	03/25/2011 16:25	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11080080201A	03/21/2011 17:33	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11080080202A	03/21/2011 17:33	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11084102201A	03/25/2011 10:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101B	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401B	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-158-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5A-SB-4.0-5.0

LLI Sample # SW 6233379
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 15:40

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-3 SDG#: DE107-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.87
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.87
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.87
06192	Ethylbenzene	100-41-4	0.07	J	0.06	3.9		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.87
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.87
06192	Methylene Chloride	75-09-2	1.8	J	0.23	3.9		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.87

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Sample Description: SL-158-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5A-SB-4.0-5.0

LLI Sample # SW 6233379
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 15:40

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-3 SDG#: DE107-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.87
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.87
06192	Trichloroethene	79-01-6	0.16	J	0.15	3.9		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.87
06192	m+p-Xylene	179601-23-1	0.24	J	0.17	3.9		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.36
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	35.1	J	18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: **SL-158-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5A-SB-4.0-5.0

LLI Sample # SW 6233379
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 15:40

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-3 SDG#: DE107-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.47	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	1.3	J	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1

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Sample Description: **SL-158-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5A-SB-4.0-5.0

LLI Sample # SW 6233379
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 15:40

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-3 SDG#: DE107-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Phenanthrene	85-01-8	0.83	J	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.29
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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Sample Description: SL-158-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5A-SB-4.0-5.0

LLI Sample # SW 6233379
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 15:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-3 SDG#: DE107-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.91	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,900		5.59	22.2		1
07914	Boron	7440-42-8	1.91	J	0.989	5.56		1

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Sample Description: **SL-158-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5A-SB-4.0-5.0

LLI Sample # SW 6233379
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 15:40

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-3 SDG#: DE107-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,320		6.81	22.2		1
01654	Iron	7439-89-6	22,400		5.23	22.2		1
01656	Lithium	7439-93-2	21.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,270		2.82	11.1		1
06958	Manganese	7439-96-5	172		0.0867	0.556		1
10145	Phosphorus	7723-14-0	205		0.622	11.1		1
01662	Potassium	7440-09-7	1,850		20.0	55.6		1
01667	Sodium	7440-23-5	125		41.4	111		1
07968	Strontium	7440-24-6	18.6		0.0689	0.556		1
06969	Tin	7440-31-5	2.95	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,160		0.422	1.11		1
10146	Zirconium	7440-67-7	1.90	J	0.933	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0829	J	0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.32		0.0880	0.440		2
06126	Barium	7440-39-3	67.8		0.119	0.440		2
06127	Beryllium	7440-41-7	0.822		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0790	J	0.0440	0.110		2
06131	Chromium	7440-47-3	20.3		0.132	0.440		2
06132	Cobalt	7440-48-4	4.92		0.0220	0.110		2
06133	Copper	7440-50-8	8.87		0.0726	0.440		2
06135	Lead	7439-92-1	6.04		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.679		0.0550	0.110		2
06139	Nickel	7440-02-0	9.20		0.110	0.440		2
06141	Selenium	7782-49-2	0.162	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0551	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.273		0.0330	0.110		2
06148	Vanadium	7440-62-2	41.8		0.0242	0.110		2
06149	Zinc	7440-66-6	53.8		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-158-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5A-SB-4.0-5.0

LLI Sample # SW 6233379
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 15:40

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-3 SDG#: DE107-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	325		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.33		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-158-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110811AA	03/22/2011	16:14	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110782AA	03/19/2011	13:30	Jason M Long	22.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107723892	03/18/2011	14:18	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107723892	03/18/2011	14:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107723892	03/18/2011	14:23	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107723892	03/18/2011	14:18	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11082SLE026	04/01/2011	12:48	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11080SLE026	03/29/2011	14:12	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011	16:20	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11082SLE026	03/24/2011	04:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011	03:00	Sherry L Morrow	1

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Sample Description: **SL-158-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5A-SB-4.0-5.0

LLI Sample # SW 6233379
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 15:40

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-3 SDG#: DE107-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11080SLE026	03/22/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34A	03/21/2011 19:08	Marie D John	20.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107723892	03/18/2011 14:17	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/27/2011 02:54	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/23/2011 23:15	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110800023A	03/22/2011 16:27	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 17:29	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110800023A	03/22/2011 09:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 16:12	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110800032A	03/21/2011 19:57	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110780020A	03/19/2011 22:08	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/28/2011 17:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110780020A	03/19/2011 07:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110800032A	03/21/2011 15:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
07914	Boron	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
01650	Calcium	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
01654	Iron	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
01656	Lithium	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
06958	Manganese	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
01662	Potassium	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
01667	Sodium	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
07968	Strontium	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
06969	Tin	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
06970	Titanium	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110805708002	03/22/2011 21:34	John P Hook	1
06124	Antimony	SW-846 6020	1	110801026001A	03/25/2011 13:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110801026001A	03/25/2011 13:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110801026001D	03/25/2011 13:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110801026001A	03/25/2011 13:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110801026001A	03/25/2011 13:46	Choon Y Tian	2

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Sample Description: SL-158-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5A-SB-4.0-5.0

LLI Sample # SW 6233379
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 15:40

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-3 SDG#: DE107-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110801026001A	03/25/2011 13:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110801026001A	03/25/2011 13:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110871026001A	03/29/2011 08:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110801026001A	03/25/2011 13:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110801026001C	03/25/2011 13:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110801026001A	03/25/2011 13:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110801026001B	03/25/2011 13:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110801026001A	03/25/2011 13:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110801026001A	03/25/2011 13:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110801026001A	03/25/2011 13:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110801026001A	03/25/2011 13:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110805711002	03/22/2011 07:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110805708002	03/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110801026001	03/21/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110871026001	03/28/2011 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110805711002	03/21/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11080080201A	03/22/2011 02:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11080080201A	03/22/2011 02:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11080080202A	03/29/2011 06:14	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11080243201A	03/22/2011 20:38	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11084102201A	03/25/2011 16:26	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11080080201A	03/21/2011 17:33	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11080080202A	03/21/2011 17:33	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11084102201A	03/25/2011 10:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182101B	03/21/2011 09:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401B	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-031711 Water**
SSFL Area IV Collocated Soil Sampling
TB-031711

LLI Sample # WW 6233380
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:00

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-4 SDG#: DE107-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **TB-031711 Water**
SSFL Area IV Collocated Soil Sampling
TB-031711

LLI Sample # WW 6233380
LLI Group # 1237986
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:00

Submitted: 03/18/2011 09:40
Reported: 04/06/2011 09:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

107-4 SDG#: DE107-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110822AA	03/23/2011	21:35	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110781AA	03/19/2011	08:11	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110781AA	03/19/2011	08:11	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110822AA	03/23/2011	21:35	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11087A20A	03/28/2011	10:47	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11087A20A	03/28/2011	10:47	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237986
Reported: 04/06/11 at 09:04 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110811AA	Sample number(s): 6233377-6233379									
Acetone	6.7	U	6.7	8.0	ug/kg	103	108	32-209	5	30
Benzene	0.10	U	0.10	4.0	ug/kg	106	101	80-120	5	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	105	99	79-120	6	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	124	121	79-124	3	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93	91	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	78	79	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	76	73	32-162	5	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	105	105	46-153	0	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	111	104	72-120	7	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	116	105	75-120	10	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	108	96	75-120	12	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	85	84	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	95	80-120	5	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	76	74	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	97	100	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	104	99	80-120	5	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	82	78	54-132	5	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	108	99	78-120	9	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104	98	79-120	6	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	71	66	22-131	7	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	95	90	58-120	6	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	83	82	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99	97	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102	99	80-120	3	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	101	95	79-120	6	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	103	97	78-120	6	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	103	96	79-120	7	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	66	61	20-120	8	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104	100	80-120	4	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	102	98	71-129	4	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113	107	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	106	101	80-120	5	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	108	102	79-120	5	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	100	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	101	98	80-120	3	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92	88	72-123	4	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	103	99	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92	91	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87	86	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	103	98	80-120	6	30
Freon 113	0.11	U	0.11	4.0	ug/kg	111	104	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	104	98	78-120	6	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	104	94	57-120	10	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	106	105	45-155	1	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	104	96	76-120	8	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	113	103	75-120	9	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237986
Reported: 04/06/11 at 09:04 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	101	99	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	108	103	61-134	5	30
Methylene Chloride	1.2	J	0.24	4.0	ug/kg	115	109	76-124	5	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	114	110	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	98	94	76-120	4	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	87	84	80-120	4	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	106	101	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100	96	77-120	4	30
Toluene	0.20	J	0.08	4.0	ug/kg	104	98	80-120	7	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	97	91	64-120	7	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	98	91	68-120	8	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	96	93	71-125	3	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	95	80-120	5	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	96	80-120	7	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	91	85	58-133	7	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	108	103	71-123	4	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	110	102	79-120	7	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	110	101	78-120	9	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	85	80	53-120	6	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	101	95	80-120	7	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	99	93	80-120	6	30
Batch number: E110781AA	Sample number(s): 6233380									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	113	117	80-123	3	30
Batch number: E110782AA	Sample number(s): 6233377-6233379									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	113	110	70-130	3	30
Batch number: Y110822AA	Sample number(s): 6233380									
Acetone	6	U	6.	20	ug/l	92	82	49-234	12	30
Benzene	0.5	U	0.5	5	ug/l	91	92	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	97	99	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	96	97	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	91	90	80-120	1	30
Bromoform	1	U	1.	5	ug/l	79	78	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	103	101	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	88	86	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	91	91	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	92	95	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	89	91	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	99	98	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	93	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	97	97	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	96	95	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	97	96	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	73	74	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	91	93	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	62	62	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	84	81	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	86	85	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	92	92	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	94	93	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	91	91	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	80	80	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	93	93	79-120	0	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237986
Reported: 04/06/11 at 09:04 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	102	102	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	97	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	91	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	91	90	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	90	88	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	93	93	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	95	95	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	94	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	88	88	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	89	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	91	91	79-120	0	30
Freon 113	2	U	2.	10	ug/l	107	107	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	100	100	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	89	93	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	86	85	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	90	90	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	93	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	94	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	87	89	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	106	98	80-120	8	30
n-Propylbenzene	1	U	1.	5	ug/l	95	96	80-120	2	30
Styrene	1	U	1.	5	ug/l	85	84	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	94	93	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	88	89	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	96	96	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	92	91	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	94	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	92	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	99	99	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	91	92	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	92	92	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	114	113	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	94	97	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	95	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	92	95	75-120	3	30
Vinyl Chloride	1	U	1.	5	ug/l	76	75	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	90	90	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	88	90	80-120	2	30
Batch number: 11080SLE026	Sample number(s): 6233377-6233379									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	44		15-121		
Benzoic acid	170 U		170.	500	ug/kg	79		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	80		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117		
Di-n-butylphthalate	17	U	17.	170	ug/kg	89		79-112		
Carbazole	17	U	17.	170	ug/kg	86		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	78		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	38		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	82		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	80		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	72		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	93		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	88		72-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237986
Reported: 04/06/11 at 09:04 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	41		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	91		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	82		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	90		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	82		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	73		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	82		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	88		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	84		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	86		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	90		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Isophorone	17	U	17.	170	ug/kg	74		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	83		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	84		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	85		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	80		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	59		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	72		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	87		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	63		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	70		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	107		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	82		51-117		
Phenol	17	U	17.	170	ug/kg	79		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	91		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11081SLB026	Sample number(s): 6233377-6233379									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	103		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	106		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	112		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	117		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	130		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	132		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	119		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	129		65-131		
Chrysene	0.33	U	0.33	1.7	ug/kg	112		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	137		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	123		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	116		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	143		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	113		64-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237986
Reported: 04/06/11 at 09:04 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	0.67	U	0.67	1.7	ug/kg	115		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	135*		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	106		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	103		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	101		55-118		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	105		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	105		56-121		
Batch number: 11082SLE026	Sample number(s): 6233377-6233379									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	85		70-130		
Batch number: 11080A34A	Sample number(s): 6233377-6233379									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	70	67-119	5	30
Batch number: 11087A20A	Sample number(s): 6233380									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 110820004A	Sample number(s): 6233377-6233379									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	103	106	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	103	106	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	106		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100 U		100.	300	ug/kg	102		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	104		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	94		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	111		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800 U		800.	2,400	ug/kg	115		80-120		
RDX	50	U	50.	120	ug/kg	115		75-131		
Tetryl	61	U	61.	120	ug/kg	93		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
Batch number: 110800003A	Sample number(s): 6233377-6233379									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	102		80-126		
Batch number: 110800023A	Sample number(s): 6233379									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	100		85-115		
Batch number: 110820012A	Sample number(s): 6233377-6233379									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	92	80	36-106	14	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	98		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237986
Reported: 04/06/11 at 09:04 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	112		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110820032A	Sample number(s): 6233377-6233379									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	102		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	109		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	113		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	80		66-113		
Batch number: 110780020A	Sample number(s): 6233377-6233379									
Diethylene glycol	5.0	U	5.0	13	mg/kg	114		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	109		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	97		75-125		
Batch number: 110800032A	Sample number(s): 6233377-6233379									
Ethanol	100	U	100.	500	ug/kg	91		71-129		
Isopropanol	100	U	100.	500	ug/kg	91		75-125		
Methanol	100	U	100.	500	ug/kg	90		68-129		
Batch number: 110840024A	Sample number(s): 6233377-6233379									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	81		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 110801026001A	Sample number(s): 6233377-6233379									
Antimony	0.0600	U	0.0600	0.200	mg/kg	85		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	98		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	101		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	100		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	106		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	98		82-118		
Lead	0.0104	U	0.0104	0.200	mg/kg	99		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	106		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	99		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	96		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	102		78-122		
Batch number: 110801026001B	Sample number(s): 6233377-6233379									
Selenium	0.0400	U	0.0400	0.400	mg/kg	108		79-122		
Batch number: 110801026001C	Sample number(s): 6233377-6233379									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	105		78-122		
Batch number: 110801026001D	Sample number(s): 6233377-6233379									
Barium	0.108	U	0.108	0.400	mg/kg	98		79-121		
Batch number: 110805708002	Sample number(s): 6233377-6233379									
Aluminum	5.03	U	5.03	20.0	mg/kg	91		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	95		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	92		61-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237986
Reported: 04/06/11 at 09:04 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		81-119		
Phosphorus	1.33	J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	94		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	103		79-121		
Tin	1.57	J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	91		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		
Batch number: 110805711002	Sample number(s): 6233377-6233379									
Mercury	0.0028	U	0.0028	0.0970	mg/kg	93		88-123		
Batch number: 110871026001A	Sample number(s): 6233377-6233379									
Copper	0.139	J	0.0660	0.400	mg/kg	110		80-120		
Batch number: 11080080201A	Sample number(s): 6233377-6233379									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	105		90-110		
Batch number: 11080080202A	Sample number(s): 6233377-6233379									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11080243201A	Sample number(s): 6233377-6233379									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11084102201A	Sample number(s): 6233377-6233379									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11080039401B	Sample number(s): 6233377-6233379									
18a pH by 9045C						100		95-105		
Batch number: 11080182101B	Sample number(s): 6233377-6233379									
32a OR Potential						100		98-102		
Batch number: 11095162401A	Sample number(s): 6233377-6233379									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11080SLE026	Sample number(s): 6233377-6233379 UNSPK: P230061								
Aniline	44	48	35-95	9	30				
Benzidine	43	46	35-141	7	30				
Benzoic acid	48	45	10-173	6	30				
Benzyl alcohol	76	77	67-115	3	30				
4-Bromophenyl-phenylether	90	90	67-129	2	30				
Di-n-butylphthalate	85	86	67-123	2	30				
Carbazole	87	89	64-120	3	30				

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Quality Control Summary

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Reported: 04/06/11 at 09:04 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chloro-3-methylphenol	71*	73*	76-110	4	30				
4-Chloroaniline	49	53	23-95	8	30				
bis(2-Chloroethoxy)methane	79	78	75-104	1	30				
bis(2-Chloroethyl)ether	76	77	60-116	2	30				
bis(2-Chloroisopropyl)ether	65	67	55-142	3	30				
2-Chloronaphthalene	74	73	50-141	1	30				
2-Chlorophenol	84	86	73-121	3	30				
4-Chlorophenyl-phenylether	85	85	80-109	1	30				
Dibenzofuran	86	85	71-112	1	30				
1,2-Dichlorobenzene	82	84	66-108	3	30				
1,3-Dichlorobenzene	80	81	63-109	2	30				
1,4-Dichlorobenzene	81	82	70-100	2	30				
3,3'-Dichlorobenzidine	69	74	16-119	8	30				
2,4-Dichlorophenol	85	85	78-117	1	30				
2,4-Dimethylphenol	77*	78	78-110	2	30				
3,5-Dimethylphenol	86	86	70-130	2	30				
4,6-Dinitro-2-methylphenol	28	24	24-116	15	30				
2,4-Dinitrophenol	20	16*	20-143	20	30				
2,4-Dinitrotoluene	72*	72*	73-113	0	30				
2,6-Dinitrotoluene	77	80	69-123	4	30				
1,2-Diphenylhydrazine	77	78	71-129	2	30				
Hexachlorobenzene	91	92	77-114	1	30				
Hexachlorobutadiene	88	85	62-120	2	30				
Hexachlorocyclopentadiene	29	23	10-153	24	30				
Hexachloroethane	61	63	57-109	3	30				
Isophorone	74	73	73-102	0	30				
2-Methylphenol	76	78	75-111	4	30				
4-Methylphenol	78	79	71-111	3	30				
2-Nitroaniline	89	91	67-125	2	30				
3-Nitroaniline	85	85	59-122	1	30				
4-Nitroaniline	64	65	52-112	4	30				
Nitrobenzene	72	72	72-106	1	30				
2-Nitrophenol	78	79	74-115	2	30				
4-Nitrophenol	63	63	54-113	1	30				
N-Nitroso-di-n-propylamine	65	66	60-116	3	30				
N-Nitrosodiphenylamine	93	94	86-145	2	30				
Di-n-octylphthalate	97	97	56-126	1	30				
Pentachlorophenol	78	78	28-127	1	30				
Phenol	74	76	58-126	4	30				
1,2,4-Trichlorobenzene	89	88	72-115	1	30				
2,4,5-Trichlorophenol	87	85	78-109	1	30				
2,4,6-Trichlorophenol	90	89	77-115	0	30				
Batch number: 11081SLB026	Sample number(s): 6233377-6233379 UNSPK: P230061								
Acenaphthene	104	94	63-105	9	30				
Acenaphthylene	104	96	67-114	8	30				
Anthracene	100	94	60-122	6	30				
Benzo(a)anthracene	97	92	59-128	5	30				
Benzo(a)pyrene	106	100	45-138	6	30				
Benzo(b)fluoranthene	105	99	43-155	5	30				
Benzo(g,h,i)perylene	118	112	33-141	5	30				
Benzo(k)fluoranthene	106	98	42-144	7	30				
Butylbenzylphthalate	126	120	57-173	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237986
Reported: 04/06/11 at 09:04 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chrysene	93	89	48-134	5	30				
Dibenz(a,h)anthracene	132	125	22-133	5	30				
Diethylphthalate	116	108	70-136	7	30				
Dimethylphthalate	114	105	74-118	8	30				
Bis(2-Ethylhexyl)phthalate	141	134	39-167	6	30				
Fluoranthene	92	83	26-166	7	30				
Fluorene	106	98	66-122	7	30				
Indeno(1,2,3-cd)pyrene	127	120	21-143	6	30				
1-Methylnaphthalene	104	95	72-123	9	30				
2-Methylnaphthalene	96	88	64-103	9	30				
Naphthalene	100	91	61-102	10	30				
N-Nitrosodimethylamine	101	92	48-113	9	30				
Phenanthrene	76	69	12-165	7	30				
Pyrene	72	68	15-153	4	30				
Batch number: 11082SLE026	Sample number(s): 6233377-6233379 UNSPK: P230971								
N-Nitrosodimethylamine	74	70	70-130	5	30				
Batch number: 110820004A	Sample number(s): 6233377-6233379 UNSPK: P230971								
4-Amino-2,6-Dinitrotoluene	110	108	80-127	4	50				
2-Amino-4,6-Dinitrotoluene	109	108	80-137	3	50				
1,3-Dinitrobenzene	109	108	38-166	3	50				
2,4-Dinitrotoluene	105	104	80-131	3	50				
2,6-Dinitrotoluene	110	106	80-127	5	50				
HMX	100	100	63-128	3	50				
Nitrobenzene	101	100	80-125	2	50				
Nitroglycerin	100	100	80-120	2	50				
2-Nitrotoluene	110	110	80-122	2	50				
3-Nitrotoluene	110	109	72-119	3	50				
4-Nitrotoluene	108	107	80-125	3	50				
PETN	117	116	80-121	3	50				
RDX	104	104	75-129	2	50				
Tetryl	77	79	55-174	2	50				
1,3,5-Trinitrobenzene	101	100	82-126	3	50				
2,4,6-Trinitrotoluene	108	107	82-130	3	50				
Batch number: 110800003A	Sample number(s): 6233377-6233379 UNSPK: P230971								
25a Formaldehyde 8315A	88	98	80-120	11	50				
Batch number: 110800023A	Sample number(s): 6233379 UNSPK: P229292								
6a Perchlorate EPA 6850	98	103	80-120	5	20				
Batch number: 110820012A	Sample number(s): 6233377-6233379 UNSPK: P230061								
PCB-1016	92	107	29-146	14	50				
PCB-1260	104	110	39-149	6	50				
Batch number: 110820032A	Sample number(s): 6233377-6233379 UNSPK: P230971								
EFH (C12-C14)	93	83	49-123	10	20				
EFH (C15-C20)	114	109	49-123	5	20				
EFH (C21-C30)	123	120	49-123	3	20				
EFH (C30 - C40)	86	86	49-123	0	20				
EFH (C8-C11)	72	65	49-123	9	20				

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Quality Control Summary

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Reported: 04/06/11 at 09:04 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110780020A	Sample number(s): 6233377-6233379 UNSPK: 6233377								
Diethylene glycol	54*	79	59-109	39*	20				
Ethylene glycol	82	94	63-107	13	20				
Propylene glycol	85	92	63-107	8	20				
Batch number: 110800032A	Sample number(s): 6233377-6233379 UNSPK: 6233378								
Ethanol	75	77	48-130	3	20				
Isopropanol	76	78	12-149	2	20				
Methanol	73	80	43-138	9	20				
Batch number: 110840024A	Sample number(s): 6233377-6233379 UNSPK: P232220								
m-Terphenyl	79	73*	75-125	9	20				
o-Terphenyl	95	87	75-125	9	20				
p-Terphenyl	77	72*	75-125	7	20				
Batch number: 110801026001A	Sample number(s): 6233377-6233379 UNSPK: P234510 BKG: P234510								
Antimony	49*	30*	75-125	44*	20	0.0689 J	0.0659 J	4 (1)	20
Arsenic	96	168*	75-125	17	20	5.95	7.11	18	20
Beryllium	127*	145*	75-125	7	20	0.921	1.06	14	20
Cadmium	131*	139*	75-125	6	20	0.0490 J	0.0639 J	26* (1)	20
Chromium	130*	145*	75-125	4	20	21.3	24.8	15	20
Cobalt	112	119	75-125	5	20	4.21	4.69	11	20
Lead	142*	153*	75-125	3	20	7.15	8.17	13	20
Nickel	118	129*	75-125	5	20	10.4	11.9	13	20
Silver	129*	137*	75-125	6	20	0.0780 J	0.0729 J	7 (1)	20
Thallium	115	113	75-125	1	20	0.303	0.265	14 (1)	20
Vanadium	116 (2)	160 (2)	75-125	7	20	45.4	51.3	12	20
Zinc	89 (2)	129 (2)	75-125	6	20	55.6	59.7	7	20
Batch number: 110801026001B	Sample number(s): 6233377-6233379 UNSPK: P234510 BKG: P234510								
Selenium	117	121	75-125	4	20	0.149 J	0.180 J	19 (1)	20
Batch number: 110801026001C	Sample number(s): 6233377-6233379 UNSPK: P234510 BKG: P234510								
Molybdenum	124	135*	75-125	8	20	0.882	0.983	11	20
Batch number: 110801026001D	Sample number(s): 6233377-6233379 UNSPK: P234510 BKG: P234510								
Barium	75 (2)	165 (2)	75-125	9	20	82.2	92.1	11	20
Batch number: 110805708002	Sample number(s): 6233377-6233379 UNSPK: P234510 BKG: P234510								
Aluminum	1500 (2)	1202 (2)	75-125	2	20	20,400	20,300	0	20
Boron	95	96	84-115	3	20	2.12 J	1.92 J	10 (1)	20
Calcium	110 (2)	98 (2)	75-125	2	20	2,070	2,090	1	20
Iron	-1069 (2)	-1156 (2)	75-125	1	20	21,500	21,300	1	20
Lithium	103	103	82-114	1	20	21.1	21.5	2	20
Magnesium	129 (2)	79 (2)	75-125	2	20	3,810	3,800	0	20
Manganese	9*	11*	75-125	1	20	181	141	25*	20
Phosphorus	81	85	75-125	2	20	154	157	1	20
Potassium	107	107	75-125	1	20	1,330	1,330	0	20
Sodium	93	93	75-125	2	20	100	99.5	1 (1)	20
Strontium	96	95	75-115	1	20	20.3	20.2	0	20
Tin	86	87	80-110	2	20	2.77 J	2.78 J	0 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237986
Reported: 04/06/11 at 09:04 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Titanium	266 (2)	266 (2)	75-125	0	20	1,010	1,050	4	20
Zirconium	99	98	75-125	2	20	1.78 J	2.52 J	35* (1)	20
Batch number: 110805711002	Sample number(s): 6233377-6233379 UNSPK: P234510 BKG: P234510								
Mercury	93	89	65-135	4	20	0.0098 J	0.0050 J	65* (1)	20
Batch number: 110871026001A	Sample number(s): 6233377-6233379 UNSPK: P234510 BKG: P234510								
Copper	114	116	75-125	0	20	6.93	5.39	25*	20
Batch number: 11080080201A	Sample number(s): 6233377-6233379 UNSPK: P232220 BKG: P232220								
11a Anions by 300.0 - Fluoride	41*		80-120			2.0	2.4	17 (1)	20
11a Anions by 300.0 - Nitrate	90		80-120			2.7	2.8	3 (1)	20
Batch number: 11080080202A	Sample number(s): 6233377-6233379 UNSPK: P232220 BKG: P232220								
7a Perchlorate EPA 314.0	116		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11080243201A	Sample number(s): 6233377-6233379 UNSPK: P230061 BKG: P230061								
3a Cr VI by EPA 7199	92		75-125			0.28 J	0.20 U	200* (1)	20
Batch number: 11084102201A	Sample number(s): 6233377-6233379 UNSPK: P232220 BKG: P232220								
17a Cyanide by 9012B	109		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11080039401B	Sample number(s): 6233377-6233379 BKG: P232222								
18a pH by 9045C						6.89	6.89	0	1
Batch number: 11080182101B	Sample number(s): 6233377-6233379 BKG: P232222								
32a OR Potential						320	320	0	6
Batch number: 11095162401A	Sample number(s): 6233377-6233379 BKG: P230973								
Moisture Content by 160.3						11.1	11.1	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110811AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6233377	98	101	99	96
6233378	99	102	99	96
6233379	97	98	97	94
Blank	98	101	99	95
LCS	99	103	100	98
LCSD	99	102	99	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237986
Reported: 04/06/11 at 09:04 AM

Surrogate Quality Control

Batch number: E110781AA

	Toluene-d8
6233380	97
Blank	100
LCS	101
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110782AA

	Toluene-d8
6233377	95
6233378	95
6233379	95
Blank	95
LCS	96
LCSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110822AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6233380	104	99	100	94
Blank	102	101	100	94
LCS	103	105	101	97
LCSD	103	102	101	98
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11080SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6233377	71	76	80	62	78	80
6233378	74	78	87	63	83	84
6233379	81	85	89	69	90	91
Blank	64	68	71	57	72	77
LCS	80	85	87	70	93	90
MS	77	85	85	73	92	81
MSD	80	87	86	73	93	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11081SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6233377	90	88	89
6233378	101	95	95
6233379	104	100	109
Blank	102	96	105
LCS	117	106	111

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237986
Reported: 04/06/11 at 09:04 AM

Surrogate Quality Control

MS	112	104	100
MSD	102	94	96
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11082SLE026

	N-Nitrosodimethylamine-d6
6233377	99
6233378	97
6233379	100
Blank	98
LCS	100
MS	100
MSD	100
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11080A34A

	Trifluorotoluene-F
6233377	74
6233378	74
6233379	74
Blank	83
LCS	84
LCSD	79
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11087A20A

	Trifluorotoluene-F
6233380	78
Blank	77
LCS	121
LCSD	113
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110800003A

	Butyraldehyde
6233377	96
6233378	96
6233379	99
Blank	105
LCS	100
MS	86
MSD	98
Limits:	64-126

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237986
Reported: 04/06/11 at 09:04 AM

Surrogate Quality Control

Analysis Name: 16a Energetics by 8330A
Batch number: 110820004A

	2-Nitro-m-xylene
6233377	112
6233378	101
6233379	109
Blank	102
LCS	116
LCSD	115
MS	107
MSD	106
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110820012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6233377	85	97
6233378	93	92
6233379	95	85
Blank	106	98
LCS	103	104
LCSD	102	108
MS	89	101
MSD	109	108
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110780020A

	Tetramethylene glycol
6233377	55
6233378	62
6233379	42
Blank	102
LCS	101
MS	98
MSD	90
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 110800032A

	Acetone
6233377	89
6233378	78
6233379	81
Blank	98
LCS	97
MS	75
MSD	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237986
Reported: 04/06/11 at 09:04 AM

Surrogate Quality Control

Limits: 42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110820032A

	Chlorobenzene	Orthoterphenyl
6233377	79	91
6233378	79	92
6233379	58	85
Blank	89	97
LCS	90	106
MS	83	100
MSD	77	96
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110840024A

	n-Triacontane-d62
6233377	77
6233378	73
6233379	75
Blank	73
LCS	72
MS	73
MSD	71
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1237986 Sample#62333371-80

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-136-SA5A-SB-4.0-5.0	03.17.11	1135	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-136-SA5A-SB-4.5	03.17.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-139-SA5A-SB-2.5-3.5	03.17.11	0858	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-139-SA5A-SB-3.0	03.17.11	0852	SOIL	NONE	5-Encores										X	X	X										
SL-158-SA5A-SB-4.0-5.0	03.17.11	1540	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-158-SA5A-SB-4.5	03.17.11	1536	SOIL	NONE	5-Encores										X	X	X										
TB-031711	03.17.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/17/2011 / 17:00 — Received for Laboratory by: (*Signature*) LLI 3/18/11 940

Received by: (*Signature*) — Date/Time — Airbill No.(s) 8695 1452 5485

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/19/2011
Group Number: 1238148
SDG: DE108
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-159-SA5A-SB-4.0-5.0 Soil	6234506
SL-169-SA5A-SB-4.0-5.0 Soil	6234507
SL-168-SA5A-SB-4.0-5.0 Soil	6234508
SL-160-SA5A-SB-4.0-5.0 Soil	6234509
SL-160-SA5A-SB-9.0-10.0 Soil	6234510
TB-031811 Water	6234511

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-159-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5A-SB-4.0-5.0

LLI Sample # SW 6234506
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 09:24

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-1 SDG#: DE108-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.5		0.86
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.86
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.86
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.7		0.86
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.86
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.86
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.86
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.86
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.86
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.86
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.86
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.86
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.86
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.86
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.86
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.86
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.86
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.86
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.86
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.86
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.86
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.86
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.86
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.86
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.7		0.86
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.86
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.86
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.86
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.86
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.86
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.86
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.5		0.86
06192	Methylene Chloride	75-09-2	0.71	J	0.22	3.7		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.86

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-159-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5A-SB-4.0-5.0

LLI Sample # SW 6234506
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 09:24

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-1 SDG#: DE108-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.86
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.7		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.86
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.86
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.86
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.86
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.86
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.89
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.0	U	18.0	36.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1

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Sample Description: **SL-159-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5A-SB-4.0-5.0

LLI Sample # SW 6234506
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 09:24

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Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-1 SDG#: DE108-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.69	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.95	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	1.1	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	J	0.71	1.8		1

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Sample Description: **SL-159-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5A-SB-4.0-5.0

LLI Sample # SW 6234506
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 09:24

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-1 SDG#: DE108-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	1.4	J	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Phenanthrene	85-01-8	1.2	J	0.71	1.8		1
10138	Pyrene	129-00-0	1.2	J	0.71	1.8		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: indeno(1,2,3-cd)pyrene								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.61
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1

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Sample Description: **SL-159-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5A-SB-4.0-5.0

LLI Sample # SW 6234506
LLI Group # 1238148
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Project Name: SSFL Area IV Collocated Soil Sampling

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108-1 SDG#: DE108-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.73	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1

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SSFL Area IV Collocated Soil Sampling
SL-159-SA5A-SB-4.0-5.0

LLI Sample # SW 6234506
LLI Group # 1238148
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108-1 SDG#: DE108-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,000		5.37	21.4		1
07914	Boron	7440-42-8	2.63	J	0.950	5.34		1
01650	Calcium	7440-70-2	2,230		6.55	21.4		1
01654	Iron	7439-89-6	24,300		5.03	21.4		1
01656	Lithium	7439-93-2	28.0		0.23	2.1		1
01657	Magnesium	7439-95-4	4,590		2.71	10.7		1
06958	Manganese	7439-96-5	209		0.0833	0.534		1
10145	Phosphorus	7723-14-0	174		0.598	10.7		1
01662	Potassium	7440-09-7	1,620		19.2	53.4		1
01667	Sodium	7440-23-5	111		39.8	107		1
07968	Strontium	7440-24-6	21.9		0.0662	0.534		1
06969	Tin	7440-31-5	3.11	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,150		0.406	1.07		1
10146	Zirconium	7440-67-7	2.11	J	0.897	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.129	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.97		0.0863	0.431		2
06126	Barium	7440-39-3	135		0.116	0.431		2
06127	Beryllium	7440-41-7	1.26		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0854	J	0.0431	0.108		2
06131	Chromium	7440-47-3	26.5		0.129	0.431		2
06132	Cobalt	7440-48-4	6.58		0.0216	0.108		2
06133	Copper	7440-50-8	6.47		0.0698	0.423		2
06135	Lead	7439-92-1	9.14		0.0112	0.216		2
06138	Molybdenum	7439-98-7	1.11		0.0539	0.108		2
06139	Nickel	7440-02-0	14.5		0.108	0.431		2
06141	Selenium	7782-49-2	0.165	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0778	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.336		0.0324	0.108		2
06148	Vanadium	7440-62-2	56.1		0.0237	0.108		2
06149	Zinc	7440-66-6	62.3		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0054	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.87	1.6		1

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SSFL Area IV Collocated Soil Sampling
SL-159-SA5A-SB-4.0-5.0

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108-1 SDG#: DE108-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	337		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.08		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-159-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110811AA	03/22/2011 16:36	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110802AA	03/21/2011 15:23	Jason M Long	22.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107823898	03/19/2011 12:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107823898	03/19/2011 13:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107823898	03/19/2011 13:04	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-159-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5A-SB-4.0-5.0

LLI Sample # SW 6234506
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 09:24

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-1 SDG#: DE108-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107823898	03/19/2011 12:50	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11084SLB026	04/05/2011 11:35	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 03:51	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011 16:52	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11084SLB026	03/26/2011 09:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34A	03/21/2011 19:44	Marie D John	24.61
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107823898	03/19/2011 12:49	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/27/2011 03:37	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/23/2011 23:24	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 19:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 16:38	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110800032A	03/21/2011 20:12	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110800030A	03/22/2011 19:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/28/2011 18:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110800030A	03/21/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110800032A	03/21/2011 15:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
07914	Boron	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
01650	Calcium	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
01654	Iron	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
01656	Lithium	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
06958	Manganese	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
01662	Potassium	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
01667	Sodium	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
07968	Strontium	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
06969	Tin	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
06970	Titanium	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110805708002	03/22/2011 21:38	John P Hook	1
06124	Antimony	SW-846 6020	1	110801026001A	03/25/2011 13:49	Choon Y Tian	2

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Sample Description: SL-159-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5A-SB-4.0-5.0

LLI Sample # SW 6234506
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 09:24

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-1 SDG#: DE108-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110801026001A	03/25/2011 13:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110801026001D	03/25/2011 13:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110801026001A	03/25/2011 13:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110801026001A	03/25/2011 13:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110801026001A	03/25/2011 13:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110801026001A	03/25/2011 13:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110871026001A	03/29/2011 08:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110801026001A	03/25/2011 13:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110801026001C	03/25/2011 13:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110801026001A	03/25/2011 13:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110801026001B	03/25/2011 13:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110801026001A	03/25/2011 13:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110801026001A	03/25/2011 13:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110801026001A	03/25/2011 13:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110801026001A	03/25/2011 13:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110805711002	03/22/2011 07:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110805708002	03/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110801026001	03/21/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110871026001	03/28/2011 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110805711002	03/21/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11080080201B	03/22/2011 03:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11080080201B	03/22/2011 03:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11080080202B	03/29/2011 06:38	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 20:55	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201A	03/29/2011 17:24	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11080080201B	03/21/2011 17:33	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11080080202B	03/21/2011 17:33	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201A	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182102A	03/21/2011 10:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401B	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-169-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA5A-SB-4.0-5.0

LLI Sample # SW 6234507
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 10:47

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-2 SDG#: DE108-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	9.0		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.97
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.97
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.97
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.97
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.97
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		0.97
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		0.97
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.97
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.97
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.97
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.97
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		0.97
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.97
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.97
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.97
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.97
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		0.97
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.97
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.97
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.97
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.97
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		0.97
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.97
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.97
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.97
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.97
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.97
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.97
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		0.97
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		0.97
06192	Methylene Chloride	75-09-2	1.0	J	0.27	4.5		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.97

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-169-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA5A-SB-4.0-5.0

LLI Sample # SW 6234507
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 10:47

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-2 SDG#: DE108-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.97
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		0.97
06192	Toluene	108-88-3	0.09	U	0.09	4.5		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.97
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.97
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.97
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		0.97
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.97
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.52
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.2	U	19.2	38.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1

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Sample Description: **SL-169-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA5A-SB-4.0-5.0

LLI Sample # SW 6234507
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 10:47

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-2 SDG#: DE108-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1

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Sample Description: **SL-169-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA5A-SB-4.0-5.0

LLI Sample # SW 6234507
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 10:47

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-2 SDG#: DE108-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.08
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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Sample Description: SL-169-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA5A-SB-4.0-5.0

LLI Sample # SW 6234507
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 10:47

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-2 SDG#: DE108-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.5		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: SL-169-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA5A-SB-4.0-5.0

LLI Sample # SW 6234507
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 10:47

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-2 SDG#: DE108-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,900		5.67	22.5		1
07914	Boron	7440-42-8	1.99	J	1.00	5.63		1
01650	Calcium	7440-70-2	2,470		6.90	22.5		1
01654	Iron	7439-89-6	21,200		5.30	22.5		1
01656	Lithium	7439-93-2	18.0		0.25	2.3		1
01657	Magnesium	7439-95-4	5,160		2.86	11.3		1
06958	Manganese	7439-96-5	195		0.0879	0.563		1
10145	Phosphorus	7723-14-0	104		0.631	11.3		1
01662	Potassium	7440-09-7	1,140		20.3	56.3		1
01667	Sodium	7440-23-5	96.2	J	42.0	113		1
07968	Strontium	7440-24-6	20.3		0.0698	0.563		1
06969	Tin	7440-31-5	3.11	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,140		0.428	1.13		1
10146	Zirconium	7440-67-7	1.19	J	0.946	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.199	J	0.0676	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.15		0.0901	0.451		2
06126	Barium	7440-39-3	136		0.122	0.451		2
06127	Beryllium	7440-41-7	0.955		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.0752	J	0.0451	0.113		2
06131	Chromium	7440-47-3	27.4		0.135	0.451		2
06132	Cobalt	7440-48-4	7.29		0.0225	0.113		2
06133	Copper	7440-50-8	8.56		0.0743	0.451		2
06135	Lead	7439-92-1	8.10		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.521		0.0563	0.113		2
06139	Nickel	7440-02-0	14.7		0.113	0.451		2
06141	Selenium	7782-49-2	0.222	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0484	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.263		0.0338	0.113		2
06148	Vanadium	7440-62-2	51.7		0.0248	0.113		2
06149	Zinc	7440-66-6	64.0		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0116	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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Sample Description: SL-169-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA5A-SB-4.0-5.0

LLI Sample # SW 6234507
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 10:47

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-2 SDG#: DE108-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	332		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.39		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-169-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110811AA	03/22/2011	16:59	Chelsea B Eastep	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110802AA	03/21/2011	15:43	Jason M Long	22.52
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107823898	03/19/2011	12:52	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107823898	03/19/2011	13:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107823898	03/19/2011	13:04	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107823898	03/19/2011	12:53	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11084SLB026	04/05/2011	12:26	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011	05:07	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011	17:24	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11084SLB026	03/26/2011	09:00	Olivia Arosemena	1

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Sample Description: **SL-169-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA5A-SB-4.0-5.0

LLI Sample # SW 6234507
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 10:47

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14420 Albemarle Point Place
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108-2 SDG#: DE108-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34A	03/21/2011 20:20	Marie D John	21.08
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107823898	03/19/2011 12:52	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/27/2011 04:19	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/23/2011 23:34	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 19:20	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 17:04	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110800032A	03/21/2011 20:26	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110830001A	03/24/2011 15:47	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/28/2011 19:09	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110830001A	03/24/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110800032A	03/21/2011 15:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
07914	Boron	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
01650	Calcium	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
01654	Iron	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
01656	Lithium	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
06958	Manganese	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
01662	Potassium	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
01667	Sodium	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
07968	Strontium	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
06969	Tin	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
06970	Titanium	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110805708002	03/22/2011 21:42	John P Hook	1
06124	Antimony	SW-846 6020	1	110801026001A	03/25/2011 13:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110801026001A	03/25/2011 13:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110801026001D	03/25/2011 13:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110801026001A	03/25/2011 13:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110801026001A	03/25/2011 13:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110801026001A	03/25/2011 13:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110801026001A	03/25/2011 13:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110871026001A	03/29/2011 08:46	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-169-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA5A-SB-4.0-5.0

LLI Sample # SW 6234507
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 10:47

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-2 SDG#: DE108-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110801026001A	03/25/2011 13:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110801026001C	03/25/2011 13:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110801026001A	03/25/2011 13:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110801026001B	03/25/2011 13:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110801026001A	03/25/2011 13:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110801026001A	03/25/2011 13:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110801026001A	03/25/2011 13:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110801026001A	03/25/2011 13:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110805711002	03/22/2011 07:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110805708002	03/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110801026001	03/21/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110871026001	03/28/2011 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110805711002	03/21/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11080080201B	03/22/2011 03:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11080080201B	03/22/2011 03:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11080080202B	03/29/2011 07:50	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 21:07	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201A	03/29/2011 17:28	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11080080201B	03/21/2011 17:33	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11080080202B	03/21/2011 17:33	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201A	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182102A	03/21/2011 10:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401B	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-168-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234508
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-3 SDG#: DE108-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.88
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	J	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.88
06192	Methylene Chloride	75-09-2	0.77	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

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Sample Description: SL-168-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234508
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-3 SDG#: DE108-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.18	J	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.4
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	56.8		18.5	37.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: SL-168-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234508
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-3 SDG#: DE108-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.89	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.88	J	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.4	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1

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Sample Description: **SL-168-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234508
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-3 SDG#: DE108-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	2.3		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.88	J	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Phenanthrene	85-01-8	1.6	J	0.74	1.8		1
10138	Pyrene	129-00-0	1.7	J	0.74	1.8		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: indeno(1,2,3-cd)pyrene								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.33
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1

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Sample Description: SL-168-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234508
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-3 SDG#: DE108-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.70	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1

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Sample Description: **SL-168-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234508
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-3 SDG#: DE108-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,600		5.59	22.2		1
07914	Boron	7440-42-8	1.80	J	0.989	5.56		1
01650	Calcium	7440-70-2	1,900		6.81	22.2		1
01654	Iron	7439-89-6	21,200		5.23	22.2		1
01656	Lithium	7439-93-2	16.0		0.24	2.2		1
01657	Magnesium	7439-95-4	3,750		2.82	11.1		1
06958	Manganese	7439-96-5	179		0.0867	0.556		1
10145	Phosphorus	7723-14-0	95.8		0.622	11.1		1
01662	Potassium	7440-09-7	1,580		20.0	55.6		1
01667	Sodium	7440-23-5	117		41.4	111		1
07968	Strontium	7440-24-6	26.9		0.0689	0.556		1
06969	Tin	7440-31-5	2.98	J	1.11	11.1		1
06970	Titanium	7440-32-6	968		0.422	1.11		1
10146	Zirconium	7440-67-7	1.45	J	0.933	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0905	J	0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.19		0.0880	0.440		2
06126	Barium	7440-39-3	81.8		0.119	0.440		2
06127	Beryllium	7440-41-7	0.922		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0615	J	0.0440	0.110		2
06131	Chromium	7440-47-3	22.8		0.132	0.440		2
06132	Cobalt	7440-48-4	5.89		0.0220	0.110		2
06133	Copper	7440-50-8	7.15		0.0726	0.440		2
06135	Lead	7439-92-1	8.20		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.570		0.0550	0.110		2
06139	Nickel	7440-02-0	8.90		0.110	0.440		2
06141	Selenium	7782-49-2	0.128	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.490		0.0132	0.110		2
06145	Thallium	7440-28-0	0.314		0.0330	0.110		2
06148	Vanadium	7440-62-2	45.6		0.0242	0.110		2
06149	Zinc	7440-66-6	56.2		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1

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Sample Description: **SL-168-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234508
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-3 SDG#: DE108-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.90	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	335		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.36		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-168-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110811AA	03/22/2011	17:21	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110802AA	03/21/2011	16:03	Jason M Long	21.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107823898	03/19/2011	12:55	Christopher D Meeks	n.a.

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Sample Description: SL-168-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234508
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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108-3 SDG#: DE108-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107823898	03/19/2011 13:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107823898	03/19/2011 13:04	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107823898	03/19/2011 12:55	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11084SLB026	04/05/2011 12:43	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 05:32	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/25/2011 17:56	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11084SLB026	03/26/2011 09:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34A	03/21/2011 20:57	Marie D John	20.33
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107823898	03/19/2011 12:55	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/27/2011 05:01	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/23/2011 23:53	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110800023A	03/22/2011 16:33	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 19:39	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110800023A	03/22/2011 09:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 17:29	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110800032A	03/21/2011 20:41	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110800030A	03/22/2011 21:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/29/2011 04:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110800030A	03/21/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110800032A	03/21/2011 15:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1
07914	Boron	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1
01650	Calcium	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1
01654	Iron	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1
01656	Lithium	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1
06958	Manganese	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1

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Sample Description: **SL-168-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234508
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

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14420 Albemarle Point Place
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108-3 SDG#: DE108-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1
01662	Potassium	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1
01667	Sodium	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1
07968	Strontium	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1
06969	Tin	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1
06970	Titanium	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110805708002	03/22/2011 21:46	John P Hook	1
06124	Antimony	SW-846 6020	1	110801026001A	03/25/2011 14:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110801026001A	03/25/2011 14:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110801026001D	03/25/2011 14:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110801026001A	03/25/2011 14:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110801026001A	03/25/2011 14:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110801026001A	03/25/2011 14:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110801026001A	03/25/2011 14:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110871026001A	03/29/2011 08:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110801026001A	03/25/2011 14:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110801026001C	03/25/2011 14:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110801026001A	03/25/2011 14:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110801026001B	03/25/2011 14:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110801026001A	03/25/2011 14:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110801026001A	03/25/2011 14:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110801026001A	03/25/2011 14:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110801026001A	03/25/2011 14:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110805711002	03/22/2011 07:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110805708002	03/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110801026001	03/21/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110871026001	03/28/2011 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110805711002	03/21/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11080080201B	03/22/2011 04:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11080080201B	03/22/2011 04:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11080080202B	03/29/2011 08:14	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 21:18	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201A	03/29/2011 17:29	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11080080201B	03/21/2011 17:33	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11080080202B	03/21/2011 17:33	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201A	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182102A	03/21/2011 10:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401B	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-168-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234508
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-3 SDG#: DE108-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-160-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-4.0-5.0

LLI Sample # SW 6234509
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:14

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-4 SDG#: DE108-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.88
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.88
06192	Methylene Chloride	75-09-2	0.80	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

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Sample Description: **SL-160-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-4.0-5.0

LLI Sample # SW 6234509
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:14

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-4 SDG#: DE108-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.51
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.8	U	18.8	37.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-160-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-4.0-5.0

LLI Sample # SW 6234509
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:14

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-4 SDG#: DE108-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-160-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-4.0-5.0

LLI Sample # SW 6234509
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:14

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-4 SDG#: DE108-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.29
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1

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Sample Description: SL-160-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-4.0-5.0

LLI Sample # SW 6234509
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:14

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-4 SDG#: DE108-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.58	J	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	1.9		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

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Sample Description: **SL-160-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-4.0-5.0

LLI Sample # SW 6234509
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:14

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-4 SDG#: DE108-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,900		5.48	21.8		1
07914	Boron	7440-42-8	2.71	J	0.969	5.44		1
01650	Calcium	7440-70-2	2,140		6.68	21.8		1
01654	Iron	7439-89-6	22,400		5.13	21.8		1
01656	Lithium	7439-93-2	24.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,340		2.77	10.9		1
06958	Manganese	7439-96-5	254		0.0849	0.544		1
10145	Phosphorus	7723-14-0	224		0.610	10.9		1
01662	Potassium	7440-09-7	2,330		19.6	54.4		1
01667	Sodium	7440-23-5	90.7	J	40.6	109		1
07968	Strontium	7440-24-6	17.9		0.0675	0.544		1
06969	Tin	7440-31-5	2.82	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,090		0.414	1.09		1
10146	Zirconium	7440-67-7	2.14	J	0.915	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.153	J	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.66		0.0897	0.449		2
06126	Barium	7440-39-3	116		0.121	0.449		2
06127	Beryllium	7440-41-7	0.924		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0708	J	0.0449	0.112		2
06131	Chromium	7440-47-3	21.8		0.135	0.449		2
06132	Cobalt	7440-48-4	5.99		0.0224	0.112		2
06133	Copper	7440-50-8	8.58		0.0740	0.449		2
06135	Lead	7439-92-1	6.79		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.792		0.0561	0.112		2
06139	Nickel	7440-02-0	13.2		0.112	0.449		2
06141	Selenium	7782-49-2	0.141	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0612	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.291		0.0336	0.112		2
06148	Vanadium	7440-62-2	44.2		0.0247	0.112		2
06149	Zinc	7440-66-6	55.8		0.628	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.23	1.1		1

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Sample Description: SL-160-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-4.0-5.0

LLI Sample # SW 6234509
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:14

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-4 SDG#: DE108-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	422		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.30		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-160-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110811AA	03/22/2011	17:43	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110802AA	03/21/2011	16:23	Jason M Long	21.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107823898	03/19/2011	12:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107823898	03/19/2011	13:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107823898	03/19/2011	13:04	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107823898	03/19/2011	12:58	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11084SLB026	04/05/2011	12:59	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011	05:57	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/28/2011	09:58	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11084SLB026	03/26/2011	09:00	Olivia Arosemena	1

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Sample Description: SL-160-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-4.0-5.0

LLI Sample # SW 6234509
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:14

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-4 SDG#: DE108-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34A	03/21/2011 21:33	Marie D John	21.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107823898	03/19/2011 12:58	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/27/2011 05:44	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/24/2011 00:03	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 19:57	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 17:55	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110800032A	03/21/2011 20:56	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110800030A	03/22/2011 21:27	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/28/2011 19:55	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110800030A	03/21/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110800032A	03/21/2011 15:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
07914	Boron	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
01650	Calcium	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
01654	Iron	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
06958	Manganese	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
07968	Strontium	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
06969	Tin	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
06970	Titanium	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110805708002	03/22/2011 21:50	John P Hook	1
06124	Antimony	SW-846 6020	1	110801026001A	03/25/2011 14:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110801026001A	03/25/2011 14:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110801026001D	03/25/2011 14:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110801026001A	03/25/2011 14:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110801026001A	03/25/2011 14:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110801026001A	03/25/2011 14:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110801026001A	03/25/2011 14:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110871026001A	03/29/2011 08:50	Choon Y Tian	2

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Sample Description: **SL-160-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-4.0-5.0

LLI Sample # SW 6234509
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:14

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-4 SDG#: DE108-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110801026001A	03/25/2011 14:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110801026001C	03/25/2011 14:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110801026001A	03/25/2011 14:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110801026001B	03/25/2011 14:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110801026001A	03/25/2011 14:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110801026001A	03/25/2011 14:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110801026001A	03/25/2011 14:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110801026001A	03/25/2011 14:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110805711002	03/22/2011 07:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110805708002	03/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110801026001	03/21/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110871026001	03/28/2011 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110805711002	03/21/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11080080201B	03/22/2011 04:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11080080201B	03/22/2011 04:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11080080202B	03/29/2011 09:03	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 21:30	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201A	03/29/2011 17:30	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11080080201B	03/21/2011 17:33	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11080080202B	03/21/2011 17:33	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201A	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182102A	03/21/2011 10:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401B	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-160-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-9.0-10.0

LLI Sample # SW 6234510
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:24

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-5 SDG#: DE108-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.99
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.99
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.99
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.99
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.99
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.99
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.99
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.99
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.99
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.99
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.99
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.99
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.99
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.99
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.99
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.99
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.99
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.99
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.99
06192	Methylene Chloride	75-09-2	1.4	J	0.26	4.3		0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.99

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Sample Description: SL-160-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-9.0-10.0

LLI Sample # SW 6234510
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:24

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-5 SDG#: DE108-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.99
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.99
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.99
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.99
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.99
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.99
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.99
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.99
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		25.35
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.6	U	17.6	35.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1

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Sample Description: SL-160-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-9.0-10.0

LLI Sample # SW 6234510
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:24

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-5 SDG#: DE108-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1

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Sample Description: SL-160-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-9.0-10.0

LLI Sample # SW 6234510
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:24

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-5 SDG#: DE108-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Phenanthrene	85-01-8	0.90	J	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		26.88
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1

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Sample Description: SL-160-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-9.0-10.0

LLI Sample # SW 6234510
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:24

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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108-5 SDG#: DE108-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.84	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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Sample Description: SL-160-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-9.0-10.0

LLI Sample # SW 6234510
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:24

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-5 SDG#: DE108-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,900		5.25	20.9		1
07914	Boron	7440-42-8	2.28	J	0.929	5.22		1
01650	Calcium	7440-70-2	2,230		6.40	20.9		1
01654	Iron	7439-89-6	23,100		4.92	20.9		1
01656	Lithium	7439-93-2	22.7		0.23	2.1		1
01657	Magnesium	7439-95-4	4,100		2.65	10.4		1
06958	Manganese	7439-96-5	194		0.0814	0.522		1
10145	Phosphorus	7723-14-0	166		0.585	10.4		1
01662	Potassium	7440-09-7	1,430		18.8	52.2		1
01667	Sodium	7440-23-5	108		38.9	104		1
07968	Strontium	7440-24-6	21.8		0.0647	0.522		1
06969	Tin	7440-31-5	2.98	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,090		0.397	1.04		1
10146	Zirconium	7440-67-7	1.91	J	0.877	5.22		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0741	J	0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.40		0.0852	0.426		2
06126	Barium	7440-39-3	88.4		0.115	0.426		2
06127	Beryllium	7440-41-7	0.991		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0527	J	0.0426	0.106		2
06131	Chromium	7440-47-3	22.9		0.128	0.426		2
06132	Cobalt	7440-48-4	4.52		0.0213	0.106		2
06133	Copper	7440-50-8	7.45		0.0696	0.422		2
06135	Lead	7439-92-1	7.69		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.949		0.0532	0.106		2
06139	Nickel	7440-02-0	11.2		0.106	0.426		2
06141	Selenium	7782-49-2	0.160	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0839	J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.326		0.0319	0.106		2
06148	Vanadium	7440-62-2	48.8		0.0234	0.106		2
06149	Zinc	7440-66-6	59.8		0.596	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0105	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-160-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-9.0-10.0

LLI Sample # SW 6234510
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:24

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-5 SDG#: DE108-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	420		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.45		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-160-SA5A-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110811AA	03/22/2011	18:05	Chelsea B Eastep	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110802AA	03/21/2011	16:42	Jason M Long	25.35
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107823898	03/19/2011	13:01	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107823898	03/19/2011	13:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107823898	03/19/2011	13:04	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107823898	03/19/2011	13:01	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11084SLB026	04/05/2011	13:16	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011	06:22	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11081SLB026	03/28/2011	10:29	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11084SLB026	03/26/2011	09:00	Olivia Arosemena	1

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Sample Description: **SL-160-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-9.0-10.0

LLI Sample # SW 6234510
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:24

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-5 SDG#: DE108-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11081SLB026	03/23/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34A	03/21/2011 22:10	Marie D John	26.88
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107823898	03/19/2011 13:00	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/27/2011 06:26	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110800003A	03/24/2011 00:12	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110820012A	03/28/2011 20:16	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110820012A	03/23/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110800003A	03/21/2011 19:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110820032A	03/25/2011 18:21	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110800032A	03/21/2011 21:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110800030A	03/22/2011 21:44	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/28/2011 21:25	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110820032A	03/24/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110800030A	03/21/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110800032A	03/21/2011 15:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
07914	Boron	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
01650	Calcium	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
01654	Iron	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
01656	Lithium	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
06958	Manganese	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
01662	Potassium	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
01667	Sodium	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
07968	Strontium	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
06969	Tin	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
06970	Titanium	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110805708002	03/22/2011 20:39	John P Hook	1
06124	Antimony	SW-846 6020	1	110801026001A	03/25/2011 13:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110801026001A	03/25/2011 13:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110801026001D	03/25/2011 13:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110801026001A	03/25/2011 13:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110801026001A	03/25/2011 13:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110801026001A	03/25/2011 13:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110801026001A	03/25/2011 13:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110871026001A	03/29/2011 08:17	Choon Y Tian	2

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Sample Description: SL-160-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-9.0-10.0

LLI Sample # SW 6234510
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:24

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-5 SDG#: DE108-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110801026001A	03/25/2011 13:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110801026001C	03/25/2011 13:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110801026001A	03/25/2011 13:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110801026001B	03/25/2011 13:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110801026001A	03/25/2011 13:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110801026001A	03/25/2011 13:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110801026001A	03/25/2011 13:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110801026001A	03/25/2011 13:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110805711002	03/22/2011 08:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110805708002	03/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110801026001	03/21/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110871026001	03/28/2011 21:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110805711002	03/21/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11080080201B	03/22/2011 05:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11080080201B	03/22/2011 05:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11080080202B	03/29/2011 09:27	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11080243201A	03/22/2011 21:41	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201A	03/29/2011 17:31	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11080080201B	03/21/2011 17:33	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11080080202B	03/21/2011 17:33	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201A	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11080182102A	03/21/2011 10:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11080039401B	03/21/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11080243201A	03/21/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: TB-031811 Water
SSFL Area IV Collocated Soil Sampling
TB-031811

LLI Sample # WW 6234511
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 08:00

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-6 SDG#: DE108-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **TB-031811 Water**
SSFL Area IV Collocated Soil Sampling
TB-031811

LLI Sample # WW 6234511
LLI Group # 1238148
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 08:00

Submitted: 03/19/2011 09:30
Reported: 04/06/2011 23:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

108-6 SDG#: DE108-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110822AA	03/23/2011 21:56	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110801AA	03/21/2011 11:01	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110801AA	03/21/2011 11:01	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110822AA	03/23/2011 21:56	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11087A20A	03/28/2011 20:31	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11087A20A	03/28/2011 20:31	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110811AA	Sample number(s): 6234506-6234510									
Acetone	6.7	U	6.7	8.0	ug/kg	103	108	32-209	5	30
Benzene	0.10	U	0.10	4.0	ug/kg	106	101	80-120	5	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	105	99	79-120	6	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	124	121	79-124	3	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93	91	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	78	79	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	76	73	32-162	5	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	105	105	46-153	0	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	111	104	72-120	7	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	116	105	75-120	10	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	108	96	75-120	12	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	85	84	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	95	80-120	5	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	76	74	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	97	100	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	104	99	80-120	5	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	82	78	54-132	5	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	108	99	78-120	9	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104	98	79-120	6	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	71	66	22-131	7	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	95	90	58-120	6	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	83	82	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99	97	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102	99	80-120	3	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	101	95	79-120	6	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	103	97	78-120	6	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	103	96	79-120	7	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	66	61	20-120	8	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104	100	80-120	4	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	102	98	71-129	4	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113	107	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	106	101	80-120	5	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	108	102	79-120	5	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	100	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	101	98	80-120	3	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92	88	72-123	4	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	103	99	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92	91	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87	86	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	103	98	80-120	6	30
Freon 113	0.11	U	0.11	4.0	ug/kg	111	104	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	104	98	78-120	6	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	104	94	57-120	10	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	106	105	45-155	1	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	104	96	76-120	8	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	113	103	75-120	9	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	101	99	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	108	103	61-134	5	30
Methylene Chloride	1.2	J	0.24	4.0	ug/kg	115	109	76-124	5	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	114	110	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	98	94	76-120	4	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	87	84	80-120	4	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	106	101	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100	96	77-120	4	30
Toluene	0.20	J	0.08	4.0	ug/kg	104	98	80-120	7	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	97	91	64-120	7	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	98	91	68-120	8	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	96	93	71-125	3	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	95	80-120	5	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	96	80-120	7	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	91	85	58-133	7	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	108	103	71-123	4	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	110	102	79-120	7	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	110	101	78-120	9	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	85	80	53-120	6	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	101	95	80-120	7	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	99	93	80-120	6	30
Batch number: E110801AA	Sample number(s): 6234511									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	114	80-123	3	30
Batch number: E110802AA	Sample number(s): 6234506-6234510									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	104	104	70-130	0	30
Batch number: Y110822AA	Sample number(s): 6234511									
Acetone	6	U	6.	20	ug/l	92	82	49-234	12	30
Benzene	0.5	U	0.5	5	ug/l	91	92	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	97	99	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	96	97	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	91	90	80-120	1	30
Bromoform	1	U	1.	5	ug/l	79	78	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	103	101	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	88	86	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	91	91	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	92	95	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	89	91	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	99	98	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	93	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	97	97	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	96	95	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	97	96	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	73	74	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	91	93	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	62	62	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	84	81	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	86	85	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	92	92	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	94	93	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	91	91	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	80	80	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	93	93	79-120	0	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	102	102	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	97	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	91	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	91	90	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	90	88	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	93	93	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	95	95	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	94	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	88	88	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	89	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	91	91	79-120	0	30
Freon 113	2	U	2.	10	ug/l	107	107	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	100	100	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	89	93	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	86	85	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	90	90	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	93	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	94	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	87	89	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	106	98	80-120	8	30
n-Propylbenzene	1	U	1.	5	ug/l	95	96	80-120	2	30
Styrene	1	U	1.	5	ug/l	85	84	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	94	93	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	88	89	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	96	96	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	92	91	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	94	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	92	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	99	99	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	91	92	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	92	92	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	114	113	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	94	97	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	95	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	92	95	75-120	3	30
Vinyl Chloride	1	U	1.	5	ug/l	76	75	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	90	90	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	88	90	80-120	2	30

Batch number: 11081SLB026 Sample number(s): 6234506-6234510

Acenaphthene	0.67	U	0.67	1.7	ug/kg	103		63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	106		55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	112		74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	117		58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	130		63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	132		44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	119		54-142
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	129		65-131
Chrysene	0.33	U	0.33	1.7	ug/kg	112		73-114
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	137		53-138
Diethylphthalate	6.0	U	6.0	18	ug/kg	123		68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	116		79-121
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	143		67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	113		64-120
Fluorene	0.67	U	0.67	1.7	ug/kg	115		71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	135*		56-134
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	106		72-120

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	103		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	101		55-118		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	105		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	105		56-121		
Batch number: 11084SLB026	Sample number(s): 6234506-6234510									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	84		70-130		
Batch number: 11087SLC026	Sample number(s): 6234506-6234510									
Aniline	170 U		170.	500	ug/kg	61		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	40		15-121		
Benzoic acid	170 U		170.	500	ug/kg	77		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	78		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Di-n-butylphthalate	17	U	17.	170	ug/kg	88		79-112		
Carbazole	17	U	17.	170	ug/kg	89		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	76		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	44		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	79		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	76		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	63*		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	86		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	88		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	88		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	67		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	92		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	81		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	87		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	83		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	70		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	83		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	87		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	78		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	86		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Isophorone	17	U	17.	170	ug/kg	73		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	80		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	82		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	86		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	80		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	57		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	70*		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrophenol	170 U		170.	500	ug/kg	60		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	64		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	110		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	80		51-117		
Phenol	17	U	17.	170	ug/kg	76		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	87		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11080A34A	Sample number(s): 6234506-6234510									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	70	67-119	5	30
Batch number: 11087A20A	Sample number(s): 6234511									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 110820004A	Sample number(s): 6234506-6234510									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	103	106	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	103	106	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	106		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100 U		100.	300	ug/kg	102		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	104		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	94		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	111		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800 U		800.	2,400	ug/kg	115		80-120		
RDX	50	U	50.	120	ug/kg	115		75-131		
Tetryl	61	U	61.	120	ug/kg	93		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
Batch number: 110800003A	Sample number(s): 6234506-6234510									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	102		80-126		
Batch number: 110800023A	Sample number(s): 6234508									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	100		85-115		
Batch number: 110820012A	Sample number(s): 6234506-6234510									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	92	80	36-106	14	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	98		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	112		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110820032A	Sample number(s): 6234506-6234510									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	102		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	109		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	113		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	80		66-113		
Batch number: 110800030A	Sample number(s): 6234506,6234508-6234510									
Diethylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Ethylene glycol	7.5	J	5.0	13	mg/kg	102		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Batch number: 110800032A	Sample number(s): 6234506-6234510									
Ethanol	100	U	100.	500	ug/kg	91		71-129		
Isopropanol	100	U	100.	500	ug/kg	91		75-125		
Methanol	100	U	100.	500	ug/kg	90		68-129		
Batch number: 110830001A	Sample number(s): 6234507									
Diethylene glycol	5.0	U	5.0	13	mg/kg	103		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	103		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	108		75-125		
Batch number: 110840024A	Sample number(s): 6234506-6234510									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	81		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 110801026001A	Sample number(s): 6234506-6234510									
Antimony	0.0600	U	0.0600	0.200	mg/kg	85		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	98		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	101		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	100		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	106		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	98		82-118		
Lead	0.0104	U	0.0104	0.200	mg/kg	99		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	106		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	99		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	96		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	102		78-122		
Batch number: 110801026001B	Sample number(s): 6234506-6234510									
Selenium	0.0400	U	0.0400	0.400	mg/kg	108		79-122		
Batch number: 110801026001C	Sample number(s): 6234506-6234510									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	105		78-122		
Batch number: 110801026001D	Sample number(s): 6234506-6234510									
Barium	0.108	U	0.108	0.400	mg/kg	98		79-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110805708002	Sample number(s): 6234506-6234510									
Aluminum	5.03	U	5.03	20.0	mg/kg	91		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	95		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	92		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		81-119		
Phosphorus	1.33	J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	94		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	103		79-121		
Tin	1.57	J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	91		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		
Batch number: 110805711002	Sample number(s): 6234506-6234510									
Mercury	0.0028	U	0.0028	0.0970	mg/kg	93		88-123		
Batch number: 110871026001A	Sample number(s): 6234506-6234510									
Copper	0.139	J	0.0660	0.400	mg/kg	110		80-120		
Batch number: 11080080201B	Sample number(s): 6234506-6234510									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	105		90-110		
Batch number: 11080080202B	Sample number(s): 6234506-6234510									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11080243201A	Sample number(s): 6234506-6234510									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11088102201A	Sample number(s): 6234506-6234510									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	96		80-120		
Batch number: 11080039401B	Sample number(s): 6234506-6234510									
18a pH by 9045C						100		95-105		
Batch number: 11080182102A	Sample number(s): 6234506-6234510									
32a OR Potential						99		98-102		
Batch number: 11095162401B	Sample number(s): 6234506-6234510									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11081SLB026	Sample number(s): 6234506-6234510 UNSPK: P230061								
Acenaphthene	104	94	63-105	9	30				
Acenaphthylene	104	96	67-114	8	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Anthracene	100	94	60-122	6	30				
Benzo(a)anthracene	97	92	59-128	5	30				
Benzo(a)pyrene	106	100	45-138	6	30				
Benzo(b)fluoranthene	105	99	43-155	5	30				
Benzo(g,h,i)perylene	118	112	33-141	5	30				
Benzo(k)fluoranthene	106	98	42-144	7	30				
Butylbenzylphthalate	126	120	57-173	5	30				
Chrysene	93	89	48-134	5	30				
Dibenz(a,h)anthracene	132	125	22-133	5	30				
Diethylphthalate	116	108	70-136	7	30				
Dimethylphthalate	114	105	74-118	8	30				
Bis(2-Ethylhexyl)phthalate	141	134	39-167	6	30				
Fluoranthene	92	83	26-166	7	30				
Fluorene	106	98	66-122	7	30				
Indeno(1,2,3-cd)pyrene	127	120	21-143	6	30				
1-Methylnaphthalene	104	95	72-123	9	30				
2-Methylnaphthalene	96	88	64-103	9	30				
Naphthalene	100	91	61-102	10	30				
N-Nitrosodimethylamine	101	92	48-113	9	30				
Phenanthrene	76	69	12-165	7	30				
Pyrene	72	68	15-153	4	30				
Batch number: 11084SLB026	Sample number(s): 6234506-6234510 UNSPK: 6234506								
N-Nitrosodimethylamine	80	78	70-130	3	30				
Batch number: 11087SLC026	Sample number(s): 6234506-6234510 UNSPK: 6234506								
Aniline	62	60	35-95	4	30				
Benzidine	23*	20*	35-141	14	30				
Benzoic acid	52	48	10-173	8	30				
Benzyl alcohol	81	79	67-115	3	30				
4-Bromophenyl-phenylether	94	88	67-129	7	30				
Di-n-butylphthalate	85	82	67-123	4	30				
Carbazole	86	85	64-120	2	30				
4-Chloro-3-methylphenol	76	75*	76-110	1	30				
4-Chloroaniline	59	57	23-95	3	30				
bis(2-Chloroethoxy)methane	77	73*	75-104	4	30				
bis(2-Chloroethyl)ether	75	75	60-116	0	30				
bis(2-Chloroisopropyl)ether	63	60	55-142	5	30				
2-Chloronaphthalene	72	67	50-141	7	30				
2-Chlorophenol	90	85	73-121	6	30				
4-Chlorophenyl-phenylether	88	84	80-109	4	30				
Dibenzofuran	90	84	71-112	6	30				
1,2-Dichlorobenzene	82	78	66-108	5	30				
1,3-Dichlorobenzene	79	78	63-109	1	30				
1,4-Dichlorobenzene	81	79	70-100	2	30				
3,3'-Dichlorobenzidine	57	55	16-119	3	30				
2,4-Dichlorophenol	91	88	78-117	4	30				
2,4-Dimethylphenol	80	76*	78-110	5	30				
3,5-Dimethylphenol	83	81	70-130	2	30				
4,6-Dinitro-2-methylphenol	79	80	24-116	0	30				
2,4-Dinitrophenol	57	60	20-143	4	30				
2,4-Dinitrotoluene	83	81	73-113	3	30				
2,6-Dinitrotoluene	85	81	69-123	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Diphenylhydrazine	76	72	71-129	6	30				
Hexachlorobenzene	94	88	77-114	6	30				
Hexachlorobutadiene	83	79	62-120	4	30				
Hexachlorocyclopentadiene	75	71	10-153	5	30				
Hexachloroethane	71	71	57-109	0	30				
Isophorone	71*	69*	73-102	2	30				
2-Methylphenol	84	80	75-111	5	30				
4-Methylphenol	87	84	71-111	4	30				
2-Nitroaniline	85	81	67-125	4	30				
3-Nitroaniline	82	78	59-122	5	30				
4-Nitroaniline	60	59	52-112	2	30				
Nitrobenzene	67*	64*	72-106	6	30				
2-Nitrophenol	88	84	74-115	4	30				
4-Nitrophenol	57	62	54-113	9	30				
N-Nitroso-di-n-propylamine	65	63	60-116	4	30				
N-Nitrosodiphenylamine	95	91	86-145	5	30				
Di-n-octylphthalate	108	103	56-126	5	30				
Pentachlorophenol	74	68	28-127	7	30				
Phenol	78	75	58-126	5	30				
1,2,4-Trichlorobenzene	87	85	72-115	3	30				
2,4,5-Trichlorophenol	87	85	78-109	3	30				
2,4,6-Trichlorophenol	88	85	77-115	3	30				
Batch number: 110820004A	Sample number(s): 6234506-6234510 UNSPK: P230971								
4-Amino-2,6-Dinitrotoluene	110	108	80-127	4	50				
2-Amino-4,6-Dinitrotoluene	109	108	80-137	3	50				
1,3-Dinitrobenzene	109	108	38-166	3	50				
2,4-Dinitrotoluene	105	104	80-131	3	50				
2,6-Dinitrotoluene	110	106	80-127	5	50				
HMX	100	100	63-128	3	50				
Nitrobenzene	101	100	80-125	2	50				
Nitroglycerin	100	100	80-120	2	50				
2-Nitrotoluene	110	110	80-122	2	50				
3-Nitrotoluene	110	109	72-119	3	50				
4-Nitrotoluene	108	107	80-125	3	50				
PETN	117	116	80-121	3	50				
RDX	104	104	75-129	2	50				
Tetryl	77	79	55-174	2	50				
1,3,5-Trinitrobenzene	101	100	82-126	3	50				
2,4,6-Trinitrotoluene	108	107	82-130	3	50				
Batch number: 110800003A	Sample number(s): 6234506-6234510 UNSPK: P230971								
25a Formaldehyde 8315A	88	98	80-120	11	50				
Batch number: 110800023A	Sample number(s): 6234508 UNSPK: P229292								
6a Perchlorate EPA 6850	98	103	80-120	5	20				
Batch number: 110820012A	Sample number(s): 6234506-6234510 UNSPK: P230061								
PCB-1016	92	107	29-146	14	50				
PCB-1260	104	110	39-149	6	50				
Batch number: 110820032A	Sample number(s): 6234506-6234510 UNSPK: P230971								
EFH (C12-C14)	93	83	49-123	10	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C15-C20)	114	109	49-123	5	20				
EFH (C21-C30)	123	120	49-123	3	20				
EFH (C30 - C40)	86	86	49-123	0	20				
EFH (C8-C11)	72	65	49-123	9	20				
Batch number: 110800030A	Sample number(s): 6234506,6234508-6234510 UNSPK: 6234506								
Diethylene glycol	85	83	59-109	2	20				
Ethylene glycol	83	82	63-107	2	20				
Propylene glycol	87	84	63-107	4	20				
Batch number: 110800032A	Sample number(s): 6234506-6234510 UNSPK: P233378								
Ethanol	75	77	48-130	3	20				
Isopropanol	76	78	12-149	2	20				
Methanol	73	80	43-138	9	20				
Batch number: 110830001A	Sample number(s): 6234507 UNSPK: P235702								
Diethylene glycol	84	81	59-109	4	20				
Ethylene glycol	86	80	63-107	8	20				
Propylene glycol	93	84	63-107	11	20				
Batch number: 110840024A	Sample number(s): 6234506-6234510 UNSPK: P232220								
m-Terphenyl	79	73*	75-125	9	20				
o-Terphenyl	95	87	75-125	9	20				
p-Terphenyl	77	72*	75-125	7	20				
Batch number: 110801026001A	Sample number(s): 6234506-6234510 UNSPK: 6234510 BKG: 6234510								
Antimony	49*	30*	75-125	44*	20	0.0689 J	0.0659 J	4 (1)	20
Arsenic	96	168*	75-125	17	20	5.95	7.11	18	20
Beryllium	127*	145*	75-125	7	20	0.921	1.06	14	20
Cadmium	131*	139*	75-125	6	20	0.0490 J	0.0639 J	26* (1)	20
Chromium	130*	145*	75-125	4	20	21.3	24.8	15	20
Cobalt	112	119	75-125	5	20	4.21	4.69	11	20
Lead	142*	153*	75-125	3	20	7.15	8.17	13	20
Nickel	118	129*	75-125	5	20	10.4	11.9	13	20
Silver	129*	137*	75-125	6	20	0.0780 J	0.0729 J	7 (1)	20
Thallium	115	113	75-125	1	20	0.303	0.265	14 (1)	20
Vanadium	116 (2)	160 (2)	75-125	7	20	45.4	51.3	12	20
Zinc	89 (2)	129 (2)	75-125	6	20	55.6	59.7	7	20
Batch number: 110801026001B	Sample number(s): 6234506-6234510 UNSPK: 6234510 BKG: 6234510								
Selenium	117	121	75-125	4	20	0.149 J	0.180 J	19 (1)	20
Batch number: 110801026001C	Sample number(s): 6234506-6234510 UNSPK: 6234510 BKG: 6234510								
Molybdenum	124	135*	75-125	8	20	0.882	0.983	11	20
Batch number: 110801026001D	Sample number(s): 6234506-6234510 UNSPK: 6234510 BKG: 6234510								
Barium	75 (2)	165 (2)	75-125	9	20	82.2	92.1	11	20
Batch number: 110805708002	Sample number(s): 6234506-6234510 UNSPK: 6234510 BKG: 6234510								
Aluminum	1500 (2)	1202 (2)	75-125	2	20	20,400	20,300	0	20
Boron	95	96	84-115	3	20	2.12 J	1.92 J	10 (1)	20
Calcium	110 (2)	98 (2)	75-125	2	20	2,070	2,090	1	20

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Iron	-1069 (2)	-1156 (2)	75-125	1	20	21,500	21,300	1	20
Lithium	103	103	82-114	1	20	21.1	21.5	2	20
Magnesium	129 (2)	79 (2)	75-125	2	20	3,810	3,800	0	20
Manganese	9*	11*	75-125	1	20	181	141	25*	20
Phosphorus	81	85	75-125	2	20	154	157	1	20
Potassium	107	107	75-125	1	20	1,330	1,330	0	20
Sodium	93	93	75-125	2	20	100	99.5	1 (1)	20
Strontium	96	95	75-115	1	20	20.3	20.2	0	20
Tin	86	87	80-110	2	20	2.77 J	2.78 J	0 (1)	20
Titanium	266 (2)	266 (2)	75-125	0	20	1,010	1,050	4	20
Zirconium	99	98	75-125	2	20	1.78 J	2.52 J	35* (1)	20
Batch number: 110805711002	Sample number(s): 6234506-6234510 UNSPK: 6234510 BKG: 6234510								
Mercury	93	89	65-135	4	20	0.0098 J	0.0050 J	65* (1)	20
Batch number: 110871026001A	Sample number(s): 6234506-6234510 UNSPK: 6234510 BKG: 6234510								
Copper	114	116	75-125	0	20	6.93	5.39	25*	20
Batch number: 11080080201B	Sample number(s): 6234506-6234510 UNSPK: 6234506 BKG: 6234506								
11a Anions by 300.0 - Fluoride	54*		80-120			1.9	1.9	1 (1)	20
11a Anions by 300.0 - Nitrate	89		80-120			2.2	1.9	18 (1)	20
Batch number: 11080080202B	Sample number(s): 6234506-6234510 UNSPK: 6234506 BKG: 6234506								
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11080243201A	Sample number(s): 6234506-6234510 UNSPK: P230061 BKG: P230061								
3a Cr VI by EPA 7199	92		75-125			0.28 J	0.20 U	200* (1)	20
Batch number: 11088102201A	Sample number(s): 6234506-6234510 UNSPK: 6234506 BKG: 6234506								
17a Cyanide by 9012B	106		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11080039401B	Sample number(s): 6234506-6234510 BKG: P232222								
18a pH by 9045C						6.89	6.89	0	1
Batch number: 11080182102A	Sample number(s): 6234506-6234510 BKG: 6234506								
32a OR Potential						337	339	1	6
Batch number: 11095162401B	Sample number(s): 6234506-6234510 BKG: P235704								
Moisture Content by 160.3						13.7	13.2	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110811AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Surrogate Quality Control

6234506	99	104	98	96
6234507	98	102	97	95
6234508	97	98	99	95
6234509	99	102	98	95
6234510	97	99	97	95
Blank	98	101	99	95
LCS	99	103	100	98
LCSD	99	102	99	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110801AA

	Toluene-d8
6234511	100
Blank	97
LCS	97
LCSD	96
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110802AA

	Toluene-d8
6234506	94
6234507	93
6234508	94
6234509	94
6234510	95
Blank	99
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110822AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6234511	104	99	99	94
Blank	102	101	100	94
LCS	103	105	101	97
LCSD	103	102	101	98
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11081SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6234506	98	91	92
6234507	101	96	98
6234508	106	100	100
6234509	102	94	101
6234510	100	93	99

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Surrogate Quality Control

Blank	102	96	105
LCS	117	106	111
MS	112	104	100
MSD	102	94	96
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11084SLB026

	N-Nitrosodimethylamine-d6
6234506	92
6234507	97
6234508	100
6234509	93
6234510	94
Blank	95
LCS	94
MS	94
MSD	88
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11087SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6234506	73	79	77	63	84	87
6234507	73	79	82	62	83	88
6234508	71	77	79	60	80	88
6234509	73	78	75	60	82	86
6234510	76	82	81	65	87	90
Blank	76	84	85	68	89	86
LCS	76	82	85	68	89	86
MS	79	84	85	65	88	86
MSD	77	82	84	64	84	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11080A34A

	Trifluorotoluene-F
6234506	75
6234507	67
6234508	70
6234509	72
6234510	78
Blank	83
LCS	84
LCSD	79
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11087A20A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Surrogate Quality Control

	Trifluorotoluene-F
6234511	77
Blank	77
LCS	121
LCSD	113
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110800003A

	Butyraldehyde
6234506	98
6234507	95
6234508	103
6234509	99
6234510	98
Blank	105
LCS	100
MS	86
MSD	98
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 110820004A

	2-Nitro-m-xylene
6234506	114
6234507	103
6234508	106
6234509	105
6234510	109
Blank	102
LCS	116
LCSD	115
MS	107
MSD	106
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110820012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6234506	95	93
6234507	102	94
6234508	99	81
6234509	118	109
6234510	106	103
Blank	106	98
LCS	103	104
LCSD	102	108
MS	89	101
MSD	109	108

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Surrogate Quality Control

Limits: 53-139 45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110800030A

	Tetramethylene glycol
6234506	80
6234508	65
6234509	59
6234510	72
Blank	94
LCS	101
MS	88
MSD	83

Limits: 29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 110800032A

	Acetone
6234506	80
6234507	75
6234508	75
6234509	77
6234510	80
Blank	98
LCS	97
MS	75
MSD	77

Limits: 42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110820032A

	Chlorobenzene	Orthoterphenyl
6234506	56	86
6234507	72	94
6234508	62	87
6234509	51	73
6234510	57	93
Blank	89	97
LCS	90	106
MS	83	100
MSD	77	96

Limits: 37-125 47-145

Analysis Name: 21a Glycols by 8015B
Batch number: 110830001A

	Tetramethylene glycol
6234507	77
Blank	90
LCS	102
MS	91

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238148
Reported: 04/06/11 at 11:03 PM

Surrogate Quality Control

MSD	83
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110840024A

n-Triacontane-d62

6234506	72
6234507	72
6234508	79
6234509	73
6234510	76
Blank	73
LCS	72
MS	73
MSD	71
Limits:	50-150

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1238148 sample# 62345506-11

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signature: [signature]

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-159-SA5A-SB-4.0-5.0	03.18.11	0924	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-159-SA5A-SB-4.5	03.18.11	0919	SOIL	NONE	5-Encores										X	X	X										
SL-169-SA5A-SB-4.0-5.0	03.18.11	1047	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-169-SA5A-SB-4.5	03.18.11	1041	SOIL	NONE	5-Encores										X	X	X										
SL-168-SA5A-SB-4.0-5.0	03.18.11	1249	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-168-SA5A-SB-4.5	03.18.11	1244	SOIL	NONE	5-Encores										X	X	X										
SL-160-SA5A-SB-4.0-5.0	03.18.11	1514	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-160-SA5A-SB-4.5	03.18.11	1509	SOIL	NONE	5-Encores										X	X	X										
SL-160-SA5A-SB-9.0-10.0	03.18.11	1524	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-160-SA5A-SB-9.5	03.18.11	1521	SOIL	NONE	5-Encores										X	X	X										
TB-031811	03.18.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*) [signature] — Date/Time: 03/18/2011 / 17:00 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) [signature] — Date/Time: 3/19/11 0930 — Airbill No.(s): 8695 1432 5496

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/23/2011
Group Number: 1238575
SDG: DE110
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-231-SA5A-SB-2.0-3.0 Soil	6236853
SL-181-SA5A-SB-4.0-5.0 Soil	6236854
SL-180-SA5A-SB-4.0-5.0 Soil	6236855
EB08-SA5A-032211 Water	6236856
TB-032211 Water	6236857

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Andrea J. Covey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-231-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-231-SA5A-SB-2.0-3.0

LLI Sample # SW 6236853
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 11:03

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-1 SDG#: DE110-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.6		0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.84
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.84
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.84
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.84
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.84
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.84
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.84
06192	Methylene Chloride	75-09-2	7.1		0.23	3.8		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.84

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Sample Description: SL-231-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-231-SA5A-SB-2.0-3.0

LLI Sample # SW 6236853
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 11:03

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-1 SDG#: DE110-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.84
06192	Toluene	108-88-3	0.12	J	0.08	3.8		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13		19.81
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-231-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-231-SA5A-SB-2.0-3.0

LLI Sample # SW 6236853
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 11:03

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-1 SDG#: DE110-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.85	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1

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Sample Description: SL-231-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-231-SA5A-SB-2.0-3.0

LLI Sample # SW 6236853
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 11:03

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-1 SDG#: DE110-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	2.2		0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,200		5.70	22.7		1
07914	Boron	7440-42-8	1.01	U	1.01	5.66		1
01650	Calcium	7440-70-2	3,750		6.94	22.7		1
01654	Iron	7439-89-6	28,500		5.33	22.7		1
01656	Lithium	7439-93-2	27.4		0.25	2.3		1
01657	Magnesium	7439-95-4	6,180		2.88	11.3		1
06958	Manganese	7439-96-5	430		0.0883	0.566		1
10145	Phosphorus	7723-14-0	586		0.634	11.3		1
01662	Potassium	7440-09-7	2,890		20.4	56.6		1
01667	Sodium	7440-23-5	339		42.2	113		1
07968	Strontium	7440-24-6	21.4		0.0702	0.566		1
06969	Tin	7440-31-5	3.42	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,310		0.430	1.13		1
10146	Zirconium	7440-67-7	3.54	J	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.229		0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.05		0.0897	0.449		2
06126	Barium	7440-39-3	107		0.121	0.449		2
06127	Beryllium	7440-41-7	0.690		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.104	J	0.0449	0.112		2

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Sample Description: SL-231-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-231-SA5A-SB-2.0-3.0

LLI Sample # SW 6236853
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 11:03

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-1 SDG#: DE110-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	28.3	0.135	0.449		2
06132	Cobalt	7440-48-4	8.92	0.0224	0.112		2
06133	Copper	7440-50-8	15.6	0.0740	0.449		2
06135	Lead	7439-92-1	7.39	0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.619	0.0561	0.112		2
06139	Nickel	7440-02-0	16.8	0.112	0.449		2
06141	Selenium	7782-49-2	0.117 J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0557 J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.307	0.0336	0.112		2
06148	Vanadium	7440-62-2	48.5	0.0247	0.112		2
06149	Zinc	7440-66-6	68.1	0.628	3.36		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	446	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.28	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-231-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-231-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5A-SB-2.0-3.0

LLI Sample # SW 6236853
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 11:03

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-1 SDG#: DE110-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110831AA	03/24/2011 16:41	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110832AA	03/24/2011 21:46	Sara E Johnson	19.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108223918	03/23/2011 18:58	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108223918	03/23/2011 19:27	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108223918	03/23/2011 19:27	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108223918	03/23/2011 18:55	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 10:19	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11087SLD026	04/01/2011 20:28	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11087SLD026	03/29/2011 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	03/31/2011 22:06	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011 17:35	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110825708002	03/24/2011 10:39	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110825708002	03/24/2011 10:39	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110825708002	03/24/2011 10:39	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110825708002	03/24/2011 10:39	Joanne M Gates	1
01656	Lithium	SW-846 6010B	2	110825708002	03/24/2011 13:47	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110825708002	03/24/2011 10:39	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110825708002	03/24/2011 10:39	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110825708002	03/24/2011 13:47	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110825708002	03/24/2011 10:39	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110825708002	03/24/2011 10:39	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110825708002	03/24/2011 10:39	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110825708002	03/24/2011 10:39	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110825708002	03/24/2011 13:47	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110825708002	03/24/2011 10:39	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110821026001A	03/27/2011 13:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	110821026001A	03/27/2011 13:00	David K Beck	2
06126	Barium	SW-846 6020	1	110821026001D	03/27/2011 13:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	110821026001A	03/27/2011 13:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	110821026001A	03/27/2011 13:00	David K Beck	2
06131	Chromium	SW-846 6020	1	110821026001A	03/27/2011 13:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	110821026001A	03/27/2011 13:00	David K Beck	2
06133	Copper	SW-846 6020	1	110821026001A	03/27/2011 13:00	David K Beck	2
06135	Lead	SW-846 6020	1	110821026001A	03/27/2011 13:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110821026001C	03/27/2011 13:00	David K Beck	2
06139	Nickel	SW-846 6020	1	110821026001A	03/27/2011 13:00	David K Beck	2
06141	Selenium	SW-846 6020	1	110821026001B	03/27/2011 13:00	David K Beck	2
06142	Silver	SW-846 6020	1	110821026001A	03/27/2011 13:00	David K Beck	2
06145	Thallium	SW-846 6020	1	110821026001A	03/27/2011 13:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	110821026001A	03/27/2011 13:00	David K Beck	2
06149	Zinc	SW-846 6020	1	110821026001A	03/27/2011 13:00	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-231-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5A-SB-2.0-3.0

LLI Sample # SW 6236853
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 11:03

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-1 SDG#: DE110-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	110825711002	03/24/2011 09:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110825708002	03/23/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110821026001	03/23/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110825711002	03/23/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201A	03/29/2011 17:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201A	03/29/2011 15:16	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11089243201A	04/04/2011 15:52	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201A	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201A	03/25/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11083182102A	03/24/2011 09:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11083039402A	03/24/2011 09:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-181-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SB-4.0-5.0

LLI Sample # SW 6236854
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:13

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-2 SDG#: DE110-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	9.0		0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.92
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.92
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.92
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.92
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.92
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.92
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		0.92
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.92
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.92
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.92
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.92
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		0.92
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.92
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.92
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.92
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.92
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		0.92
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.92
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.92
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.92
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		0.92
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.92
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.92
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.92
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.92
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.92
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.92
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.92
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		0.92
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		0.92
06192	Methylene Chloride	75-09-2	4.1	J	0.27	4.5		0.92
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.92

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-181-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SB-4.0-5.0

LLI Sample # SW 6236854
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:13

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-2 SDG#: DE110-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.92
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		0.92
06192	Toluene	108-88-3	0.09	U	0.09	4.5		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.92
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.92
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.92
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		0.92
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.92
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		22.85
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	202	U	202	404		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	82	U	82	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-181-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SB-4.0-5.0

LLI Sample # SW 6236854
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:13

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-2 SDG#: DE110-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	82	U	82	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	82	U	82	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	1.1	J	0.41	2.0		1
10138	Anthracene	120-12-7	1.3	J	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	4.5		0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	7.1		0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	6.0		0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	8.0		0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	5.4		0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	7.5		0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	1.3	J	0.81	2.0		1

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Sample Description: **SL-181-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SB-4.0-5.0

LLI Sample # SW 6236854
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:13

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-2 SDG#: DE110-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	8.0		0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.8		0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	0.81	U	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	2.5		0.81	2.0		1
10138	Pyrene	129-00-0	8.4		0.81	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		19.9
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	72	U	72	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	96	U	96	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	96	U	96	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	960	U	960	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	96	U	96	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	96	U	96	140	10000000	1
10132	PETN	78-11-5	960	U	960	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1

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Sample Description: SL-181-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SB-4.0-5.0

LLI Sample # SW 6236854
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:13

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-2 SDG#: DE110-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	730	U	730	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	5.4		0.40	2.1		1
10225	PCB-1260	11096-82-5	3.3		0.48	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C15-C20)	n.a.	0.85	J	0.49	1.5		1
10199	EFH (C21-C30)	n.a.	5.7		0.49	1.5		1
10199	EFH (C30 - C40)	n.a.	14		0.49	1.5		1
10199	EFH (C8-C11)	n.a.	0.49	U	0.49	1.5		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	120	U	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Sample Description: **SL-181-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SB-4.0-5.0

LLI Sample # SW 6236854
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:13

Submitted: 03/23/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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110-2 SDG#: DE110-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.3		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.3		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,800		6.04	24.0		1
07914	Boron	7440-42-8	1.07	U	1.07	6.00		1
01650	Calcium	7440-70-2	4,530		7.36	24.0		1
01654	Iron	7439-89-6	24,600		5.65	24.0		1
01656	Lithium	7439-93-2	26.3		0.26	2.4		1
01657	Magnesium	7439-95-4	5,320		3.05	12.0		1
06958	Manganese	7439-96-5	346		0.0936	0.600		1
10145	Phosphorus	7723-14-0	303		0.672	12.0		1
01662	Potassium	7440-09-7	2,440		21.6	60.0		1
01667	Sodium	7440-23-5	168		44.8	120		1
07968	Strontium	7440-24-6	27.1		0.0744	0.600		1
06969	Tin	7440-31-5	3.23	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,250		0.456	1.20		1
10146	Zirconium	7440-67-7	3.75	J	1.01	6.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0938	J	0.0727	0.242		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.60		0.0969	0.485		2
06126	Barium	7440-39-3	115		0.131	0.485		2
06127	Beryllium	7440-41-7	0.620		0.0194	0.121		2
06128	Cadmium	7440-43-9	0.171		0.0485	0.121		2
06131	Chromium	7440-47-3	23.6		0.145	0.485		2
06132	Cobalt	7440-48-4	7.31		0.0242	0.121		2
06133	Copper	7440-50-8	10.2		0.0800	0.485		2
06135	Lead	7439-92-1	5.92		0.0126	0.242		2
06138	Molybdenum	7439-98-7	0.497		0.0606	0.121		2
06139	Nickel	7440-02-0	15.2		0.121	0.485		2
06141	Selenium	7782-49-2	0.128	J	0.0485	0.485		2
06142	Silver	7440-22-4	0.0710	J	0.0145	0.121		2
06145	Thallium	7440-28-0	0.276		0.0364	0.121		2
06148	Vanadium	7440-62-2	42.5		0.0267	0.121		2
06149	Zinc	7440-66-6	61.5		0.679	3.64		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0199	J	0.0034	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.98	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.98	1.8		1

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Sample Description: **SL-181-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SB-4.0-5.0

LLI Sample # SW 6236854
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:13

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-2 SDG#: DE110-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0	U	11.0	36.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.61		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	471		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.85		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	18.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-181-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110831AA	03/24/2011 17:03	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110832AA	03/24/2011 22:06	Sara E Johnson	22.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108223918	03/23/2011 19:15	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108223918	03/23/2011 19:27	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108223918	03/23/2011 19:27	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108223918	03/23/2011 19:12	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11084SLB026	04/05/2011 14:57	Timothy J Trees	10

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LLI Sample # SW 6236854
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110-2 SDG#: DE110-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 10:44	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11087SLD026	04/01/2011 20:59	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11084SLB026	03/26/2011 09:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11087SLD026	03/29/2011 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34B	03/24/2011 17:13	Elizabeth J Marin	19.9
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108223918	03/23/2011 19:09	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 02:35	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 21:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	03/31/2011 22:24	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 11:44	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110830025A	03/25/2011 01:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110830001A	03/24/2011 18:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/29/2011 02:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110830001A	03/24/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110830025A	03/24/2011 17:40	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110825708002	03/24/2011 10:42	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110825708002	03/24/2011 10:42	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110825708002	03/24/2011 10:42	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110825708002	03/24/2011 10:42	Joanne M Gates	1
01656	Lithium	SW-846 6010B	2	110825708002	03/24/2011 13:51	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110825708002	03/24/2011 10:42	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110825708002	03/24/2011 10:42	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110825708002	03/24/2011 13:51	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110825708002	03/24/2011 10:42	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110825708002	03/24/2011 10:42	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110825708002	03/24/2011 10:42	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110825708002	03/24/2011 10:42	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110825708002	03/24/2011 13:51	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110825708002	03/24/2011 10:42	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110821026001A	03/27/2011 13:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	110821026001A	03/27/2011 13:03	David K Beck	2
06126	Barium	SW-846 6020	1	110821026001D	03/27/2011 13:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	110821026001A	03/27/2011 13:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	110821026001A	03/27/2011 13:03	David K Beck	2

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Sample Description: SL-181-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SB-4.0-5.0

LLI Sample # SW 6236854
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:13

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-2 SDG#: DE110-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110821026001A	03/27/2011 13:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	110821026001A	03/27/2011 13:03	David K Beck	2
06133	Copper	SW-846 6020	1	110821026001A	03/27/2011 13:03	David K Beck	2
06135	Lead	SW-846 6020	1	110821026001A	03/27/2011 13:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110821026001C	03/27/2011 13:03	David K Beck	2
06139	Nickel	SW-846 6020	1	110821026001A	03/27/2011 13:03	David K Beck	2
06141	Selenium	SW-846 6020	1	110821026001B	03/27/2011 13:03	David K Beck	2
06142	Silver	SW-846 6020	1	110821026001A	03/27/2011 13:03	David K Beck	2
06145	Thallium	SW-846 6020	1	110821026001A	03/27/2011 13:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	110821026001A	03/27/2011 13:03	David K Beck	2
06149	Zinc	SW-846 6020	1	110821026001A	03/27/2011 13:03	David K Beck	2
00159	Mercury	SW-846 7471A	1	110825711002	03/24/2011 09:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110825708002	03/23/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110821026001	03/23/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110825711002	03/23/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201A	03/29/2011 17:46	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11087495201A	03/29/2011 17:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201A	03/29/2011 15:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11089243201A	04/04/2011 15:57	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201A	03/29/2011 17:40	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201A	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201A	03/25/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201A	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11083182102A	03/24/2011 09:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11083039402A	03/24/2011 09:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-180-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SB-4.0-5.0

LLI Sample # SW 6236855
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 13:49

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-3 SDG#: DE110-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.88
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.88
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.88
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.88
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.88
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.88
06192	Ethylbenzene	100-41-4	0.07	J	0.06	4.1		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.88
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.88
06192	Methylene Chloride	75-09-2	2.3	J	0.24	4.1		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.88

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Sample Description: SL-180-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SB-4.0-5.0

LLI Sample # SW 6236855
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 13:49

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-3 SDG#: DE110-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.88
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.88
06192	m+p-Xylene	179601-23-1	0.21	J	0.17	4.1		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.52
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.2	U	19.2	38.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-180-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SB-4.0-5.0

LLI Sample # SW 6236855
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 13:49

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-3 SDG#: DE110-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1

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Sample Description: **SL-180-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SB-4.0-5.0

LLI Sample # SW 6236855
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 13:49

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-3 SDG#: DE110-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.80	J	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.76
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1

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Sample Description: SL-180-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SB-4.0-5.0

LLI Sample # SW 6236855
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 13:49

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-3 SDG#: DE110-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.92	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	J	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Sample Description: SL-180-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SB-4.0-5.0

LLI Sample # SW 6236855
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 13:49

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-3 SDG#: DE110-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,900		5.73	22.8		1
07914	Boron	7440-42-8	2.05	J	1.01	5.70		1
01650	Calcium	7440-70-2	13,300		6.99	22.8		1
01654	Iron	7439-89-6	27,700		5.37	22.8		1
01656	Lithium	7439-93-2	37.8		0.25	2.3		1
01657	Magnesium	7439-95-4	6,990		2.90	11.4		1
06958	Manganese	7439-96-5	680		0.0889	0.570		1
10145	Phosphorus	7723-14-0	133		0.638	11.4		1
01662	Potassium	7440-09-7	1,640		20.5	57.0		1
01667	Sodium	7440-23-5	217		42.5	114		1
07968	Strontium	7440-24-6	53.1		0.0707	0.570		1
06969	Tin	7440-31-5	3.50	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,370		0.433	1.14		1
10146	Zirconium	7440-67-7	4.54	J	0.958	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0691	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.46		0.0921	0.461		2
06126	Barium	7440-39-3	256		0.311	1.15		5
06127	Beryllium	7440-41-7	0.806		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.203		0.0461	0.115		2
06131	Chromium	7440-47-3	28.8		0.138	0.461		2
06132	Cobalt	7440-48-4	8.52		0.0230	0.115		2
06133	Copper	7440-50-8	12.0		0.0760	0.461		2
06135	Lead	7439-92-1	6.57		0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.524		0.0576	0.115		2
06139	Nickel	7440-02-0	18.5		0.115	0.461		2
06141	Selenium	7782-49-2	0.198	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0820	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.246		0.0345	0.115		2
06148	Vanadium	7440-62-2	53.6		0.0253	0.115		2
06149	Zinc	7440-66-6	60.6		0.645	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0092	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.8		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.93	1.7		1

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Sample Description: SL-180-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SB-4.0-5.0

LLI Sample # SW 6236855
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 13:49

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-3 SDG#: DE110-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	469		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.12		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-180-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110831AA	03/24/2011 17:26	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110832AA	03/24/2011 22:26	Sara E Johnson	22.52
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108223918	03/23/2011 19:22	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108223918	03/23/2011 19:27	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108223918	03/23/2011 19:27	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108223918	03/23/2011 19:18	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11084SLB026	04/05/2011 15:14	Timothy J Trees	1

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Sample Description: **SL-180-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SB-4.0-5.0

LLI Sample # SW 6236855
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 13:49

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-3 SDG#: DE110-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 11:09	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11087SLD026	04/01/2011 21:30	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11084SLB026	03/26/2011 09:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11087SLD026	03/29/2011 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34B	03/24/2011 17:50	Elizabeth J Marin	20.76
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108223918	03/23/2011 19:17	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 03:17	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 22:09	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	03/31/2011 22:43	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 11:18	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110830025A	03/25/2011 01:57	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110830001A	03/24/2011 19:00	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/29/2011 01:09	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110830001A	03/24/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110830025A	03/24/2011 17:40	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110825708002	03/24/2011 10:46	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110825708002	03/24/2011 10:46	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110825708002	03/24/2011 10:46	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110825708002	03/24/2011 10:46	Joanne M Gates	1
01656	Lithium	SW-846 6010B	2	110825708002	03/24/2011 13:55	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110825708002	03/24/2011 10:46	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110825708002	03/24/2011 10:46	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110825708002	03/24/2011 13:55	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110825708002	03/24/2011 10:46	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110825708002	03/24/2011 10:46	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110825708002	03/24/2011 10:46	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110825708002	03/24/2011 10:46	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110825708002	03/24/2011 13:55	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110825708002	03/24/2011 10:46	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110821026001A	03/27/2011 13:06	David K Beck	2
06125	Arsenic	SW-846 6020	1	110821026001A	03/27/2011 13:06	David K Beck	2
06126	Barium	SW-846 6020	1	110821026001D	03/29/2011 09:59	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	110821026001A	03/27/2011 13:06	David K Beck	2
06128	Cadmium	SW-846 6020	1	110821026001A	03/29/2011 10:00	Choon Y Tian	2

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Sample Description: **SL-180-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SB-4.0-5.0

LLI Sample # SW 6236855
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 13:49

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-3 SDG#: DE110-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110821026001A	03/27/2011 13:06	David K Beck	2
06132	Cobalt	SW-846 6020	1	110821026001A	03/27/2011 13:06	David K Beck	2
06133	Copper	SW-846 6020	1	110821026001A	03/27/2011 13:06	David K Beck	2
06135	Lead	SW-846 6020	1	110821026001A	03/27/2011 13:06	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110821026001C	03/27/2011 13:06	David K Beck	2
06139	Nickel	SW-846 6020	1	110821026001A	03/27/2011 13:06	David K Beck	2
06141	Selenium	SW-846 6020	1	110821026001B	03/27/2011 13:06	David K Beck	2
06142	Silver	SW-846 6020	1	110821026001A	03/27/2011 13:06	David K Beck	2
06145	Thallium	SW-846 6020	1	110821026001A	03/27/2011 13:06	David K Beck	2
06148	Vanadium	SW-846 6020	1	110821026001A	03/27/2011 13:06	David K Beck	2
06149	Zinc	SW-846 6020	1	110821026001A	03/27/2011 13:06	David K Beck	2
00159	Mercury	SW-846 7471A	1	110825711002	03/24/2011 09:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110825708002	03/23/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110821026001	03/23/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110825711002	03/23/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201A	03/29/2011 18:29	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11087495201A	03/29/2011 18:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201A	03/29/2011 16:01	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11089243201A	04/04/2011 16:20	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201B	03/29/2011 17:41	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201A	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201A	03/25/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201B	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11083182102A	03/24/2011 09:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11083039402A	03/24/2011 09:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB08-SA5A-032211 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5A-032211

LLI Sample # WW 6236856
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:30

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-4 SDG#: DE110-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB08-SA5A-032211 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5A-032211

LLI Sample # WW 6236856
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:30

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-4 SDG#: DE110-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	60		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

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Sample Description: **EB08-SA5A-032211 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5A-032211

LLI Sample # WW 6236856
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:30

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-4 SDG#: DE110-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.0099	U	0.0099	0.049		1
10137	Acenaphthylene	208-96-8	0.0099	U	0.0099	0.049		1
10137	Anthracene	120-12-7	0.0099	U	0.0099	0.049		1
10137	Benzo(a)anthracene	56-55-3	0.0099	U	0.0099	0.049		1
10137	Benzo(a)pyrene	50-32-8	0.0099	U	0.0099	0.049		1
10137	Benzo(b)fluoranthene	205-99-2	0.0099	U	0.0099	0.049		1
10137	Benzo(g,h,i)perylene	191-24-2	0.0099	U	0.0099	0.049		1
10137	Benzo(k)fluoranthene	207-08-9	0.0099	U	0.0099	0.049		1
10137	Butylbenzylphthalate	85-68-7	0.049	U	0.049	0.99		1
10137	Di-n-butylphthalate	84-74-2	0.60	J	0.049	0.99		1
10137	Chrysene	218-01-9	0.0099	U	0.0099	0.049		1
10137	Dibenz(a,h)anthracene	53-70-3	0.0099	U	0.0099	0.049		1
10137	Diethylphthalate	84-66-2	0.071	J	0.049	0.99		1
10137	Dimethylphthalate	131-11-3	0.049	U	0.049	0.99		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.22	J	0.049	0.99		1

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Sample Description: **EB08-SA5A-032211 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5A-032211

LLI Sample # WW 6236856
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:30

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-4 SDG#: DE110-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10137	Fluoranthene	206-44-0	0.0099 U	0.0099	0.049		1
10137	Fluorene	86-73-7	0.0099 U	0.0099	0.049		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0099 U	0.0099	0.049		1
10137	1-Methylnaphthalene	90-12-0	0.0099 U	0.0099	0.049		1
10137	2-Methylnaphthalene	91-57-6	0.0099 U	0.0099	0.049		1
10137	Naphthalene	91-20-3	0.030 U	0.030	0.049		1
10137	N-Nitrosodimethylamine	62-75-9	0.0099 U	0.0099	0.049		1
10137	Di-n-octylphthalate	117-84-0	0.31 J	0.049	0.99		1
10137	Phenanthrene	85-01-8	0.0099 U	0.0099	0.049		1
10137	Pyrene	129-00-0	0.0099 U	0.0099	0.049		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .32 ug/l
di-n-octylphthalate .30 ug/l
These blank values were not subtracted from the analytical results.

Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098 U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098 U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098 U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098 U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098 U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20 U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098 U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098 U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098 U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.098 U	0.098	0.49		1
10227	PCB-1262	37324-23-5	0.20 U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16 U	0.16	0.49		1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0035 J	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1

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Sample Description: **EB08-SA5A-032211 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5A-032211

LLI Sample # WW 6236856
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:30

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-4 SDG#: DE110-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.9	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110822AA	03/23/2011 22:38	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110831AA	03/24/2011 13:08	Jason M Long	1

*=This limit was used in the evaluation of the final result
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Sample Description: **EB08-SA5A-032211 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5A-032211

LLI Sample # WW 6236856
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:30

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-4 SDG#: DE110-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110822AA	03/23/2011 22:38	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110831AA	03/24/2011 13:08	Jason M Long	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11082WAH026	03/30/2011 02:00	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11083WAC026	03/28/2011 11:00	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11082WAH026	03/24/2011 00:55	David V Hershey Jr	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11083WAC026	03/24/2011 22:40	Elaine F Stoltzfus	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110840017A	03/28/2011 23:21	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110840017A	03/26/2011 07:30	Karen L Beyer	1
01743	Aluminum	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
07058	Manganese	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
08068	Strontium	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	110831848003	03/25/2011 21:48	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	110836050003A	03/26/2011 17:17	David K Beck	1
06025	Arsenic	SW-846 6020	1	110836050003A	03/26/2011 17:17	David K Beck	1
06026	Barium	SW-846 6020	1	110836050003D	03/26/2011 17:17	David K Beck	1
06027	Beryllium	SW-846 6020	1	110836050003A	03/26/2011 17:17	David K Beck	1
06028	Cadmium	SW-846 6020	1	110836050003A	03/26/2011 17:17	David K Beck	1
06031	Chromium	SW-846 6020	1	110836050003A	03/26/2011 17:17	David K Beck	1
06032	Cobalt	SW-846 6020	1	110836050003A	03/26/2011 17:17	David K Beck	1
06033	Copper	SW-846 6020	1	110836050003A	03/26/2011 17:17	David K Beck	1
06035	Lead	SW-846 6020	1	110836050003A	03/26/2011 17:17	David K Beck	1
06038	Molybdenum	SW-846 6020	1	110836050003C	03/26/2011 17:17	David K Beck	1
06039	Nickel	SW-846 6020	1	110836050003A	03/26/2011 17:17	David K Beck	1
06041	Selenium	SW-846 6020	1	110836050003B	03/26/2011 17:17	David K Beck	1
06042	Silver	SW-846 6020	1	110836050003A	03/26/2011 17:17	David K Beck	1
06045	Thallium	SW-846 6020	1	110836050003A	03/26/2011 17:17	David K Beck	1
06048	Vanadium	SW-846 6020	1	110836050003A	03/26/2011 17:17	David K Beck	1
06049	Zinc	SW-846 6020	1	110836050003A	03/26/2011 17:17	David K Beck	1
00259	Mercury	SW-846 7470A	1	110905713003	04/01/2011 09:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110831848003	03/25/2011 10:00	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110836050003	03/25/2011 09:58	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110905713003	03/31/2011 15:40	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11082196602C	03/24/2011 02:32	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11088196701A	03/29/2011 22:24	Ashley M Adams	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB08-SA5A-032211 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5A-032211

LLI Sample # WW 6236856
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:30

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-4 SDG#: DE110-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11082196401C	03/23/2011 13:14	Ashley M Adams	1
00200	18b pH by 9040B	SW-846 9040B	1	11084020001A	03/25/2011 20:30	Luz M Groff	1

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Analysis Report

Sample Description: **TB-032211 Water**
SSFL Area IV Collocated Soil Sampling
TB-032211

LLI Sample # WW 6236857
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 08:00

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-5 SDG#: DE110-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-032211 Water**
SSFL Area IV Collocated Soil Sampling
TB-032211

LLI Sample # WW 6236857
LLI Group # 1238575
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 08:00

Submitted: 03/23/2011 09:00
Reported: 04/12/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

110-5 SDG#: DE110-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110822AA	03/23/2011	22:59	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110831AA	03/24/2011	13:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110822AA	03/23/2011	22:59	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110831AA	03/24/2011	13:28	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11087A20A	03/28/2011	11:52	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11087A20A	03/28/2011	11:52	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110831AA	Sample number(s): 6236853-6236855									
Acetone	6.7	U	6.7	8.0	ug/kg	196	175	32-209	11	30
Benzene	0.10	U	0.10	4.0	ug/kg	107	100	80-120	7	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	97	97	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	125*	118	79-124	6	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93	89	78-120	4	30
Bromoform	0.40	U	0.40	4.0	ug/kg	79	74	70-120	5	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	85	81	32-162	4	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	147	129	46-153	13	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	107	104	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	109	105	75-120	4	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	100	98	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	87	84	69-122	4	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97	93	80-120	4	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	84	82	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	100	90	43-146	11	30
Chloroform	0.12	U	0.12	4.0	ug/kg	103	98	80-120	5	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	88	81	54-132	8	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100	99	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99	96	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	68	64	22-131	6	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	90	81	58-120	11	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	84	78	77-120	6	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99	92	80-120	7	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102	96	80-120	5	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	96	94	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97	95	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	98	95	79-120	3	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	74	68	20-120	9	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104	99	80-120	5	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	102	96	71-129	6	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112	102	73-123	9	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105	99	80-120	6	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	107	100	79-120	7	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103	98	80-120	5	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	100	94	80-120	6	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92	89	72-123	4	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	105	97	77-120	8	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	93	88	80-120	5	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87	83	77-120	5	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101	95	80-120	6	30
Freon 113	0.11	U	0.11	4.0	ug/kg	117	107	61-126	9	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	106	101	78-120	5	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98	96	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	132	118	45-155	12	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100	95	76-120	6	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	107	104	75-120	3	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	101	96	74-121	5	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	107	94	61-134	13	30
Methylene Chloride	1.5	J	0.24	4.0	ug/kg	119	110	76-124	8	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	112	105	77-120	7	30
Styrene	0.10	U	0.10	4.0	ug/kg	95	90	76-120	5	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	86	84	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	102	97	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	97	92	77-120	5	30
Toluene	0.11	J	0.08	4.0	ug/kg	101	96	80-120	5	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92	92	64-120	0	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94	93	68-120	1	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95	90	71-125	6	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	99	95	80-120	5	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	95	80-120	6	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	100	91	58-133	9	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101	96	71-123	5	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102	101	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	103	100	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	90	81	53-120	10	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	97	92	80-120	5	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	95	91	80-120	4	30
Batch number: E110831AA	Sample number(s): 6236856-6236857									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	106	80-123	2	30
Batch number: E110832AA	Sample number(s): 6236853-6236855									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	111	119	70-130	7	30
Batch number: Y110822AA	Sample number(s): 6236856-6236857									
Acetone	6	U	6.	20	ug/l	92	82	49-234	12	30
Benzene	0.5	U	0.5	5	ug/l	91	92	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	97	99	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	96	97	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	91	90	80-120	1	30
Bromoform	1	U	1.	5	ug/l	79	78	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	103	101	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	88	86	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	91	91	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	92	95	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	89	91	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	99	98	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	93	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	97	97	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	96	95	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	97	96	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	73	74	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	91	93	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	62	62	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	84	81	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	86	85	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	92	92	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	94	93	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	91	91	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	80	80	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	93	93	79-120	0	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	102	102	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	97	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	91	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	91	90	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	90	88	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	93	93	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	95	95	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	94	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	88	88	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	89	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	91	91	79-120	0	30
Freon 113	2	U	2.	10	ug/l	107	107	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	100	100	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	89	93	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	86	85	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	90	90	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	93	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	94	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	87	89	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	106	98	80-120	8	30
n-Propylbenzene	1	U	1.	5	ug/l	95	96	80-120	2	30
Styrene	1	U	1.	5	ug/l	85	84	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	94	93	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	88	89	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	96	96	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	92	91	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	94	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	92	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	99	99	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	91	92	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	92	92	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	114	113	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	94	97	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	95	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	92	95	75-120	3	30
Vinyl Chloride	1	U	1.	5	ug/l	76	75	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	90	90	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	88	90	80-120	2	30
Batch number: 11082WAH026	Sample number(s): 6236856									
Aniline	1	U	1.	5	ug/l	55	67	49-101	19	30
Benzidine	20	U	20.	60	ug/l	52	63	34-117	19	30
Benzoic acid	6	U	6.	15	ug/l	34	34	10-69	1	30
Benzyl alcohol	5	U	5.	15	ug/l	67	71	66-97	6	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	92	91	82-117	1	30
Carbazole	1	U	1.	5	ug/l	92	91	81-114	0	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	81	82	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	57	74	42-124	26	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	82	83	74-124	1	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	84	86	77-108	2	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	69	70	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	71	69	54-132	3	30
2-Chlorophenol	1	U	1.	5	ug/l	86	86	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	92	93	82-111	0	30
Dibenzofuran	1	U	1.	5	ug/l	93	93	83-108	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	83	80	55-118	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	80	78	50-119	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	82	79	53-119	3	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	56	66	49-111	17	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	93	94	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	82	83	72-110	0	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	85	89	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	91	89	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	79	82	52-131	4	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	90	93	81-115	3	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	90	93	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	78	78	78-116	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	92	92	81-118	0	30
Hexachlorobutadiene	1	U	1.	5	ug/l	81	79	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	73	70	36-118	4	30
Hexachloroethane	1	U	1.	5	ug/l	71	69	52-113	3	30
Isophorone	1	U	1.	5	ug/l	78	81	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	73	73	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	69	71	61-103	3	30
2-Nitroaniline	1	U	1.	5	ug/l	90	91	83-116	1	30
3-Nitroaniline	1	U	1.	5	ug/l	86	89	74-113	4	30
4-Nitroaniline	1	U	1.	5	ug/l	69	74	59-100	7	30
Nitrobenzene	1	U	1.	5	ug/l	73*	74*	75-109	1	30
2-Nitrophenol	1	U	1.	5	ug/l	92	96	86-120	3	30
4-Nitrophenol	10	U	10.	30	ug/l	29	31	16-78	4	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	72	73	69-110	2	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	95	67-136	1	30
Pentachlorophenol	3	U	3.	15	ug/l	77	80	53-110	4	30
Phenol	1	U	1.	5	ug/l	36	36	21-67	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	88	87	71-112	1	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	90	92	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	93	93	81-113	0	30
Batch number: 11083WAC026	Sample number(s): 6236856									
Acenaphthene	0.010	U	0.010	0.050	ug/l	103	101	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	103	102	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	105	104	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	105	104	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	113	112	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	120	118	69-123	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	119	117	57-131	2	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	113	113	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	99	98	40-138	1	30
Di-n-butylphthalate	0.32	J	0.050	1.0	ug/l	111	110	74-131	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	104	103	76-116	1	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	125	123	55-134	2	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	103	102	57-134	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	87	83	40-119	5	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	122	125	57-154	3	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	105	105	75-116	1	30
Fluorene	0.010	U	0.010	0.050	ug/l	113	112	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	123	122	69-124	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	103	102	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	94	93	75-115	1	30
Naphthalene	0.030	U	0.030	0.050	ug/l	99	98	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	67	68	36-89	2	30
Di-n-octylphthalate	0.30	J	0.050	1.0	ug/l	123	124	57-145	1	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	100	100	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	98	97	69-118	1	30
Batch number: 11084SLB026	Sample number(s): 6236854-6236855									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	84		70-130		
Batch number: 11087SLC026	Sample number(s): 6236853-6236855									
Aniline	170	U	170.	500	ug/kg	61		34-94		
Benzidine	1,200	U	1,200.	3,300	ug/kg	40		15-121		
Benzoic acid	170	U	170.	500	ug/kg	77		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	78		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Carbazole	17	U	17.	170	ug/kg	89		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	76		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	44		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	79		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	76		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	63*		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	86		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	88		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	88		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	67		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	92		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	81		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	87		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	83		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	70		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	83		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	87		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	78		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	88		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	86		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Isophorone	17	U	17.	170	ug/kg	73		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	80		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	82		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	86		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	80		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	57		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	70*		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	60		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	64		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	80		51-117		
Phenol	17	U	17.	170	ug/kg	76		58-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	87		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11087SLD026	Sample number(s): 6236853-6236855									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	100		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	106		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	97		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	102		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	103		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	107		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	108		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	115		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	91		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	111		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	120		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	119		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	110		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	109		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	109		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	106		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	97		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	111		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	109		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	94		56-121		
Batch number: 11080A34B	Sample number(s): 6236854-6236855									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	70	67-119	5	30
Batch number: 11087A20A	Sample number(s): 6236857									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 110900049A	Sample number(s): 6236854-6236855									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	95	107	54-134	13	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	94	107	54-134	13	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	106		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	101		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
HMX	100 U		100.	300	ug/kg	97		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	99		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	89		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	106		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	105		80-120		
PETN	800 U		800.	2,400	ug/kg	110		80-120		
RDX	50	U	50.	120	ug/kg	96		75-131		
Tetryl	61	U	61.	120	ug/kg	89		70-168		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	107		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 110870004A	Sample number(s): 6236854-6236855									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	97		80-126		
Batch number: 110840017A	Sample number(s): 6236856									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	82	74	35-84	10	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	94	92	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	96	94	56-135	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110870009A	Sample number(s): 6236853-6236855									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	79	76	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	91		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110900035A	Sample number(s): 6236854-6236855									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	95		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	85		66-113		
Batch number: 110830001A	Sample number(s): 6236854-6236855									
Diethylene glycol	5.0	U	5.0	13	mg/kg	103		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	103		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	108		75-125		
Batch number: 110830025A	Sample number(s): 6236854-6236855									
Ethanol	100 U		100.	500	ug/kg	91		71-129		
Isopropanol	100 U		100.	500	ug/kg	95		75-125		
Methanol	100 U		100.	500	ug/kg	84		68-129		
Batch number: 110840024A	Sample number(s): 6236854-6236855									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	81		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 110821026001A	Sample number(s): 6236853-6236855									
Antimony	0.0600	U	0.0600	0.200	mg/kg	114		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	104		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	113		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	111		82-118		
Copper	0.0716	J	0.0660	0.400	mg/kg	106		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	103		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	113		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	105		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	105		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	103		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	105		78-122		
Batch number: 110821026001B	Sample number(s): 6236853-6236855									
Selenium	0.0400	U	0.0400	0.400	mg/kg	113		79-122		
Batch number: 110821026001C	Sample number(s): 6236853-6236855									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	114		78-122		
Batch number: 110821026001D	Sample number(s): 6236853-6236855									
Barium	0.108	U	0.108	0.400	mg/kg	109		79-121		
Batch number: 110825708002	Sample number(s): 6236853-6236855									
Aluminum	21.6		5.03	20.0	mg/kg	93		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	101		78-110		
Calcium	7.09	J	6.13	20.0	mg/kg	98		88-110		
Iron	17.0	J	4.71	20.0	mg/kg	97		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	4.17	J	2.54	10.0	mg/kg	99		82-110		
Manganese	0.383	J	0.0780	0.500	mg/kg	105		81-119		
Phosphorus	0.932	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3	U	37.3	100	mg/kg	100		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	108		79-121		
Tin	1.58	J	1.00	10.0	mg/kg	111		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	102		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	106		80-120		
Batch number: 110825711002	Sample number(s): 6236853-6236855									
Mercury	0.0028	U	0.0028	0.0977	mg/kg	98		88-123		
Batch number: 110831848003	Sample number(s): 6236856									
Aluminum	0.0834	U	0.0834	0.200	mg/l	93	93	90-112	0	20
Boron	0.0138	U	0.0138	0.0500	mg/l	96	96	90-110	0	20
Calcium	0.0702	U	0.0702	0.200	mg/l	101	102	90-112	1	20
Iron	0.0522	U	0.0522	0.200	mg/l	100	101	90-112	1	20
Lithium	0.0024	J	0.0024	0.0200	mg/l	101	101	80-120	0	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	99	100	89-110	1	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	101	101	90-110	1	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	102	102	80-120	0	20
Potassium	0.239	U	0.239	0.500	mg/l	99	99	85-115	0	20
Sodium	0.433	U	0.433	1.00	mg/l	96	96	87-114	0	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	100	101	90-110	1	20
Tin	0.0098	U	0.0098	0.0200	mg/l	100	99	90-110	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Titanium	0.0038 U	0.0038	0.0100	mg/l	100	101	90-113	0	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	103	103	80-120	1	20
Batch number: 110836050003A	Sample number(s): 6236856								
Antimony	0.00030 U	0.00030	0.0010	mg/l	100	103	87-110	3	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	104	113*	86-111	8	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	106	107	90-112	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	112	102	90-114	9	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	106	104	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	100	99	80-120	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	109	107	90-113	2	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	105	109	90-115	4	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	108	90-113	1	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	108	108	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	112	107	89-116	4	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	108	104	80-120	4	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	107	104	80-120	3	20
Batch number: 110836050003B	Sample number(s): 6236856								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	105	85-114	2	20
Batch number: 110836050003C	Sample number(s): 6236856								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	106	106	80-120	1	20
Batch number: 110836050003D	Sample number(s): 6236856								
Barium	0.00053 U	0.00053	0.0020	mg/l	107	110	88-113	3	20
Batch number: 110905713003	Sample number(s): 6236856								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	93	87	80-120	7	20
Batch number: 11082196401C	Sample number(s): 6236856								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	100	90-110	1	20
Batch number: 11082196602C	Sample number(s): 6236856								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	102	90-110	2	20
Batch number: 11083495201A	Sample number(s): 6236853-6236855								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11087495201A	Sample number(s): 6236853-6236855								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	100		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11088102201A	Sample number(s): 6236854								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	96		80-120		
Batch number: 11088102201B	Sample number(s): 6236855								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	96		80-120		
Batch number: 11088196701A	Sample number(s): 6236856								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	100	99	85-115	1	20
Batch number: 11089243201A	Sample number(s): 6236853-6236855								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	90		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11083039402A	Sample number(s): 6236853-6236855								
18a pH by 9045C					100		95-105		
Batch number: 11083182102A	Sample number(s): 6236853-6236855								
32a OR Potential					99		98-102		
Batch number: 11084020001A	Sample number(s): 6236856								
18b pH by 9040B					100	100	90-110	0	1
Batch number: 11090162401A	Sample number(s): 6236853								
Moisture Content by 160.3					100		80-120		
Batch number: 11101162401A	Sample number(s): 6236854-6236855								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11084SLB026	Sample number(s): 6236854-6236855 UNSPK: P234506								
N-Nitrosodimethylamine	80	78	70-130	3	30				
Batch number: 11087SLC026	Sample number(s): 6236853-6236855 UNSPK: P234506								
Aniline	62	60	35-95	4	30				
Benzidine	23*	20*	35-141	14	30				
Benzoic acid	52	48	10-173	8	30				
Benzyl alcohol	81	79	67-115	3	30				
4-Bromophenyl-phenylether	94	88	67-129	7	30				
Carbazole	86	85	64-120	2	30				
4-Chloro-3-methylphenol	76	75*	76-110	1	30				
4-Chloroaniline	59	57	23-95	3	30				
bis(2-Chloroethoxy)methane	77	73*	75-104	4	30				
bis(2-Chloroethyl)ether	75	75	60-116	0	30				
bis(2-Chloroisopropyl)ether	63	60	55-142	5	30				
2-Chloronaphthalene	72	67	50-141	7	30				
2-Chlorophenol	90	85	73-121	6	30				
4-Chlorophenyl-phenylether	88	84	80-109	4	30				
Dibenzofuran	90	84	71-112	6	30				
1,2-Dichlorobenzene	82	78	66-108	5	30				
1,3-Dichlorobenzene	79	78	63-109	1	30				
1,4-Dichlorobenzene	81	79	70-100	2	30				
3,3'-Dichlorobenzidine	57	55	16-119	3	30				
2,4-Dichlorophenol	91	88	78-117	4	30				
2,4-Dimethylphenol	80	76*	78-110	5	30				
3,5-Dimethylphenol	83	81	70-130	2	30				
4,6-Dinitro-2-methylphenol	79	80	24-116	0	30				
2,4-Dinitrophenol	57	60	20-143	4	30				
2,4-Dinitrotoluene	83	81	73-113	3	30				
2,6-Dinitrotoluene	85	81	69-123	4	30				
1,2-Diphenylhydrazine	76	72	71-129	6	30				
bis(2-Ethylhexyl)phthalate	85	81	63-122	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorobenzene	94	88	77-114	6	30				
Hexachlorobutadiene	83	79	62-120	4	30				
Hexachlorocyclopentadiene	75	71	10-153	5	30				
Hexachloroethane	71	71	57-109	0	30				
Isophorone	71*	69*	73-102	2	30				
2-Methylphenol	84	80	75-111	5	30				
4-Methylphenol	87	84	71-111	4	30				
2-Nitroaniline	85	81	67-125	4	30				
3-Nitroaniline	82	78	59-122	5	30				
4-Nitroaniline	60	59	52-112	2	30				
Nitrobenzene	67*	64*	72-106	6	30				
2-Nitrophenol	88	84	74-115	4	30				
4-Nitrophenol	57	62	54-113	9	30				
N-Nitroso-di-n-propylamine	65	63	60-116	4	30				
N-Nitrosodiphenylamine	95	91	86-145	5	30				
Pentachlorophenol	74	68	28-127	7	30				
Phenol	78	75	58-126	5	30				
1,2,4-Trichlorobenzene	87	85	72-115	3	30				
2,4,5-Trichlorophenol	87	85	78-109	3	30				
2,4,6-Trichlorophenol	88	85	77-115	3	30				
Batch number: 11087SLD026	Sample number(s): 6236853-6236855 UNSPK: P235702								
Acenaphthene	95	99	63-105	4	30				
Acenaphthylene	102	105	67-114	2	30				
Anthracene	72	94	60-122	27	30				
Benzo(a)anthracene	96	103	59-128	6	30				
Benzo(a)pyrene	97	103	45-138	6	30				
Benzo(b)fluoranthene	98	105	43-155	7	30				
Benzo(g,h,i)perylene	99	104	33-141	5	30				
Benzo(k)fluoranthene	96	100	42-144	4	30				
Butylbenzylphthalate	103	111	57-173	8	30				
Di-n-butylphthalate	110	114	65-148	3	30				
Chrysene	83	90	48-134	8	30				
Dibenz(a,h)anthracene	101	106	22-133	5	30				
Diethylphthalate	114	118	70-136	4	30				
Dimethylphthalate	110	117	74-118	6	30				
Bis(2-Ethylhexyl)phthalate	106	111	39-167	5	30				
Fluoranthene	102	110	26-166	8	30				
Fluorene	100	105	66-122	5	30				
Indeno(1,2,3-cd)pyrene	99	104	21-143	5	30				
1-Methylnaphthalene	90	93	72-123	4	30				
2-Methylnaphthalene	101	104*	64-103	3	30				
Naphthalene	94	96	61-102	2	30				
N-Nitrosodimethylamine	84	86	48-113	3	30				
Di-n-octylphthalate	101	108	40-192	7	30				
Phenanthrene	134	111	12-165	19	30				
Pyrene	91	96	15-153	6	30				
Batch number: 110900049A	Sample number(s): 6236854-6236855 UNSPK: P239176								
4-Amino-2,6-Dinitrotoluene	106	103	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	103	103	80-137	0	50				
1,3-Dinitrobenzene	104	101	38-166	2	50				
2,4-Dinitrotoluene	99	97	80-131	1	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,6-Dinitrotoluene	104	103	80-127	1	50				
HMX	96	94	63-128	2	50				
Nitrobenzene	92	90	80-125	2	50				
Nitroglycerin	95	93	80-120	1	50				
2-Nitrotoluene	103	102	80-122	1	50				
3-Nitrotoluene	104	102	72-119	2	50				
4-Nitrotoluene	102	101	80-125	1	50				
PETN	112	110	80-121	2	50				
RDX	99	99	75-129	1	50				
Tetryl	81	87	55-174	8	50				
1,3,5-Trinitrobenzene	98	100	82-126	2	50				
2,4,6-Trinitrotoluene	105	104	82-130	1	50				
Batch number: 110870004A	Sample number(s): 6236854-6236855 UNSPK: P239176								
25a Formaldehyde 8315A	98	106	80-120	7	50				
Batch number: 110870009A	Sample number(s): 6236853-6236855 UNSPK: P235702								
PCB-1016	85	97	29-146	13	50				
PCB-1260	102	115	39-149	12	50				
Batch number: 110900035A	Sample number(s): 6236854-6236855 UNSPK: P239176								
EFH (C12-C14)	100	92	49-123	9	20				
EFH (C15-C20)	234*	114	49-123	69*	20				
EFH (C21-C30)	1671*	-112*	49-123	167*	20				
EFH (C30 - C40)	2421 (2)	-308 (2)	49-123	168*	20				
EFH (C8-C11)	79	67	49-123	10	20				
Batch number: 110830001A	Sample number(s): 6236854-6236855 UNSPK: P235702								
Diethylene glycol	84	81	59-109	4	20				
Ethylene glycol	86	80	63-107	8	20				
Propylene glycol	93	84	63-107	11	20				
Batch number: 110830025A	Sample number(s): 6236854-6236855 UNSPK: P235705								
Ethanol	78	75	48-130	3	20				
Isopropanol	81	79	12-149	3	20				
Methanol	78	74	43-138	5	20				
Batch number: 110840024A	Sample number(s): 6236854-6236855 UNSPK: P232220								
m-Terphenyl	79	73*	75-125	9	20				
o-Terphenyl	95	87	75-125	9	20				
p-Terphenyl	77	72*	75-125	7	20				
Batch number: 110821026001A	Sample number(s): 6236853-6236855 UNSPK: P235702 BKG: P235702								
Antimony	48*	42*	75-125	10	20	0.176 J	0.0577 U	200* (1)	20
Arsenic	102	88	75-125	4	20	4.77	3.52	30*	20
Beryllium	100	93	75-125	3	20	0.565	0.510	10	20
Cadmium	100	91	75-125	8	20	0.0890 J	0.0932 J	5 (1)	20
Chromium	120	109	75-125	4	20	17.4	15.0	15	20
Cobalt	105	101	75-125	3	20	5.98	4.95	19	20
Copper	113	102	75-125	6	20	7.37	6.21	17	20
Lead	99	90	75-125	3	20	4.92	4.09	18	20
Nickel	114	98	75-125	7	20	10.1	8.57	16	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Silver	104	98	75-125	4	20	0.0271 J	0.0217 J	22* (1)	20
Thallium	90	90	75-125	0	20	0.259	0.207	22* (1)	20
Vanadium	130*	114	75-125	3	20	35.2	30.8	13	20
Zinc	123 (2)	82 (2)	75-125	7	20	44.8	40.2	11	20
Batch number: 110821026001B	Sample number(s): 6236853-6236855 UNSPK: P235702 BKG: P235702								
Selenium	106	107	75-125	2	20	0.105 J	0.0776 J	30* (1)	20
Batch number: 110821026001C	Sample number(s): 6236853-6236855 UNSPK: P235702 BKG: P235702								
Molybdenum	99	92	75-125	6	20	0.587	0.316	60* (1)	20
Batch number: 110821026001D	Sample number(s): 6236853-6236855 UNSPK: P235702 BKG: P235702								
Barium	118 (2)	63 (2)	75-125	6	20	82.7	77.4	7	20
Batch number: 110825708002	Sample number(s): 6236853-6236855 UNSPK: P235702 BKG: P235702								
Aluminum	2023 (2)	2543 (2)	75-125	5	20	15,200	15,600	3	20
Boron	105	106	84-115	2	20	0.873 U	0.873 U	0 (1)	20
Calcium	129 (2)	158 (2)	75-125	5	20	1,980	1,980	0	20
Iron	-237 (2)	895 (2)	75-125	6	20	19,700	20,300	3	20
Lithium	100	102	82-114	2	20	18.6	19.3	4	20
Magnesium	138 (2)	244 (2)	75-125	5	20	3,850	3,970	3	20
Manganese	157 (2)	195 (2)	75-125	6	20	246	264	7	20
Phosphorus	90	89	75-125	0	20	250	248	1	20
Potassium	108	128*	75-125	6	20	2,370	2,470	4	20
Sodium	101	102	75-125	2	20	73.2 J	75.3 J	3 (1)	20
Strontium	104	106	75-115	3	20	16.3	16.3	0	20
Tin	100	101	80-110	2	20	2.96 J	2.76 J	7 (1)	20
Titanium	192 (2)	262 (2)	75-125	6	20	1,050	1,040	1	20
Zirconium	99	98	75-125	0	20	2.96 J	3.99 J	30* (1)	20
Batch number: 110825711002	Sample number(s): 6236853-6236855 UNSPK: P235702 BKG: P235702								
Mercury	100	96	65-135	3	20	0.0027 U	0.0028 U	0 (1)	20
Batch number: 11083495201A	Sample number(s): 6236853-6236855 UNSPK: P235702 BKG: P235702								
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11087495201A	Sample number(s): 6236853-6236855 UNSPK: P235702 BKG: P235702								
11a Anions by 300.0 - Fluoride	44*		80-120			1.9	0.97 J	64* (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			1.7	2.4	32* (1)	20
Batch number: 11088102201A	Sample number(s): 6236854 UNSPK: P234506 BKG: P234506								
17a Cyanide by 9012B	106		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11088102201B	Sample number(s): 6236855 UNSPK: P239176 BKG: P239176								
17a Cyanide by 9012B	101		75-125			0.17 U	0.17 U	0 (1)	20
Batch number: 11089243201A	Sample number(s): 6236853-6236855 UNSPK: 6236854 BKG: 6236854								
3a Cr VI by EPA 7199	88		75-125			0.34 J	0.69 J	67* (1)	20
Batch number: 11083039402A	Sample number(s): 6236853-6236855 BKG: P235702								
18a pH by 9045C						6.17	6.15	0	1

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11083182102A	Sample number(s): 6236853-6236855					BKG: P235702			
32a OR Potential						419	432	3	6
Batch number: 11090162401A	Sample number(s): 6236853					BKG: P237969			
Moisture Content by 160.3						15.5	15.6	1	20
Batch number: 11101162401A	Sample number(s): 6236854-6236855					BKG: P239176			
Moisture Content by 160.3						12.0	11.0	9	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110831AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6236853	97	99	98	94
6236854	96	96	100	93
6236855	97	98	98	94
Blank	100	101	99	96
LCS	100	102	99	99
LCSD	99	98	100	99
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110831AA

	Toluene-d8
6236856	96
6236857	96
Blank	101
LCS	97
LCSD	102
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110832AA

	Toluene-d8
6236853	95
6236854	95
6236855	95
Blank	96
LCS	95
LCSD	97

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Surrogate Quality Control

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110822AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6236856	105	101	99	94
6236857	105	100	100	93
Blank	102	101	100	94
LCS	103	105	101	97
LCSD	103	102	101	98
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11082WAH026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6236856	39	22	93	71	93	87
Blank	54	33	90	72	88	84
LCS	52	32	91	72	89	82
LCSD	52	32	92	73	90	84
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11083WAC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6236856	97	89	100
Blank	98	94	101
LCS	109	102	100
LCSD	106	99	96
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11084SLB026

	N-Nitrosodimethylamine-d6
6236854	108
6236855	112
Blank	95
LCS	94
MS	94
MSD	88
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11087SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6236853	78	83	79	66	85	86
6236854	75	79	79	63	82	81

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Surrogate Quality Control

6236855	80	85	86	66	84	86
Blank	76	84	85	68	89	86
LCS	76	82	85	68	89	86
MS	79	84	85	65	88	86
MSD	77	82	84	64	84	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11087SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6236853	97	90	108
6236854	99	91	102
6236855	92	88	104
Blank	111	111	128
LCS	97	98	107
MS	95	93	103
MSD	96	96	106
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11080A34B

	Trifluorotoluene-F
6236854	78
6236855	78
Blank	86
LCS	84
LCSD	79
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11087A20A

	Trifluorotoluene-F
6236857	80
Blank	77
LCS	121
LCSD	113
Limits:	63-135

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110840017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6236856	109	91
Blank	97	81
LCS	111	93
LCSD	108	92
Limits:	30-150	30-150

Analysis Name: 25a Formaldehyde 8315A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Surrogate Quality Control

Batch number: 110870004A

	Butyraldehyde
6236854	96
6236855	100
Blank	103
LCS	100
MS	103
MSD	103
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110870009A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6236853	76	97
6236854	92	93
6236855	87	98
Blank	86	101
LCS	84	105
LCSD	85	105
MS	74	97
MSD	88	107
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 110900049A

	2-Nitro-m-xylene
6236854	109
6236855	111
Blank	108
LCS	285*
LCSD	97
MS	111
MSD	108
Limits:	80-146

Analysis Name: 21a Glycols by 8015B
Batch number: 110830001A

	Tetramethylene glycol
6236854	54
6236855	58
Blank	90
LCS	102
MS	91
MSD	83
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 110830025A

	Acetone

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238575
Reported: 04/12/11 at 09:15 AM

Surrogate Quality Control

6236854	72
6236855	79
Blank	94
LCS	93
MS	77
MSD	76
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110840024A

	n-Triacontane-d62
6236854	75
6236855	73
Blank	73
LCS	72
MS	73
MSD	71
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110900035A

	Chlorobenzene	Orthoterphenyl
6236854	90	93
6236855	81	84
Blank	90	99
LCS	86	97
MS	90	92
MSD	85	94
Limits:	37-125	47-145

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

12013/ 1238575 / 6236853-57

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-231-SA5A-SB-2.0-3.0	03.22.11	1103	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														Amended COC
SL-231-SA5A-SB-2.5	03.22.11	1058	SOIL	NONE	4-Encores										X	X											
SL-181-SA5A-SB-4.0-5.0	03.22.11	1513	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-181-SA5A-SB-4.5	03.22.11	1508	SOIL	NONE	5-Encores										X	X	X										
SL-180-SA5A-SB-4.0-5.0	03.22.11	1349	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-180-SA5A-SB-4.5	03.22.11	1345	SOIL	NONE	5-Encores										X	X	X										
EB08-SA5A-032211	03.22.11	1530	WATER	NONE	5-1L amber bottles			X	X	X																	1 extra liter for backup
EB08-SA5A-032211	03.22.11	1530	WATER	HCl	6-40mL VOA vials										X	X											
EB08-SA5A-032211	03.22.11	1530	WATER	NONE	1-500mL poly		X				X	X	X														
EB08-SA5A-032211	03.22.11	1530	WATER	HNO3	1-500mL poly	X																					
TB-032211	03.22.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	**Date/Time** 03/22/2011 / 17:00	**Received for Laboratory by:** (*Signature*)	**Laboratory:** Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)** 8695 1432 3736	

Natalie R. Luciano

From: Crites, Ann Marie [CritesAM@cdm.com]
Sent: Wednesday, March 23, 2011 4:39 PM
To: Nicole Maljovec; Natalie R. Luciano
Cc: Bloisa, Peggy
Subject: FW: Santa Susana COC 3/22/11
Follow Up Flag: Follow up
Flag Status: Completed
Attachments: COC_subsurface_samples_03_22_11REVISED.xls

Heads-up! For the equipment blank EB08-SA5A-032211, I checked the TPH/GRO analysis box. This is not needed on these VOCs since it is the primary suite. I will ship the secondary suite today with that analysis checked. Attached is the revised COC. Thanks Peggy, for catching that.

From: Crites, Ann Marie
Sent: Tuesday, March 22, 2011 4:27 PM
To: Bloisa, Peggy; Burgesser, Todd; Laura Rainey; Nicole Maljovec; SAEnvEntry; Zakowski, Cherie
Subject: Santa Susana COC 3/22/11

Primary equipment blank in this shipment. As soon as we get our bottles and Encores tomorrow, we will collect a DUP and MS/MSD, as well as a Secondary equipment blank. Expect at least 3 coolers on Thursday...

Nothing else to report today.

Ann Marie Crites|Environmental Scientist
CDM | 60 Port Blvd, Ste 201
Libby, Montana 59923
critesam@cdm.com | Cell: 406-422-8139
Please consider the environment before printing this e-mail.

acct# 13013 Gp# 1238575 sample# 6236853-57

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260/SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8016B	
SL-231-SA5A-SB-2.0-3.0	03.22.11	1103	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-231-SA5A-SB-2.5	03.22.11	1058	SOIL	NONE	4-Encores										X	X											
SL-181-SA5A-SB-4.0-5.0	03.22.11	1513	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-181-SA5A-SB-4.5	03.22.11	1508	SOIL	NONE	5-Encores										X	X	X										
SL-180-SA5A-SB-4.0-5.0	03.22.11	1349	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-180-SA5A-SB-4.5	03.22.11	1345	SOIL	NONE	5-Encores										X	X	X										
EB08-SA5A-032211	03.22.11	1530	WATER	NONE	5-1L amber bottles			X	X	X																	1 extra liter for backup
EB08-SA5A-032211	03.22.11	1530	WATER	HCl	6-40mL VOA vials										X	X	X										
EB08-SA5A-032211	03.22.11	1530	WATER	NONE	1-500mL poly		X				X	X	X														
EB08-SA5A-032211	03.22.11	1530	WATER	HNO3	1-500mL poly	X																					
TB-032211	03.22.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — **Date/Time** 03/22/2011 / 17:00 — **Received for Laboratory by: (Signature)** 3/23/11 900

Received by: (Signature) — **Date/Time** — **Airbill No.(s)** 8695 1432 3736

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 11, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/24/2011
Group Number: 1238730
SDG: DE111
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-239-SA5A-SB-4.0-5.0 Soil	6237967
SL-240-SA5A-SB-4.0-5.0 Soil	6237968
SL-240-SA5A-SB-9.0-10.0 Soil	6237969
SL-197-SA5A-SB-4.0-5.0 Soil	6237970
SL-197-SA5A-SB-8.0-9.0 Soil	6237971
SL-198-SA5A-SB-3.0-4.0 Soil	6237972
SL-200-SA5A-SB-4.0-5.0 Soil	6237973
EB09-SA5A-032311 Water	6237974
TB-032311 Water	6237975

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Christine Dulaney
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-239-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-239-SA5A-SB-4.0-5.0

LLI Sample # SW 6237967
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 09:34

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-1 SDG#: DE111-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.98
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.98
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.98
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.98
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.98
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.98
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.98
06192	Methylene Chloride	75-09-2	0.82	J	0.25	4.2		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.98

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-239-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-239-SA5A-SB-4.0-5.0

LLI Sample # SW 6237967
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 09:34

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-1 SDG#: DE111-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.98
06192	Toluene	108-88-3	0.09	J	0.08	4.2		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		24.08
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-239-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-239-SA5A-SB-4.0-5.0

LLI Sample # SW 6237967
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 09:34

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-1 SDG#: DE111-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-239-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-239-SA5A-SB-4.0-5.0

LLI Sample # SW 6237967
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 09:34

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-1 SDG#: DE111-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,200		5.25	20.9		1
07914	Boron	7440-42-8	1.96	J	0.928	5.21		1
01650	Calcium	7440-70-2	2,170		6.39	20.9		1
01654	Iron	7439-89-6	21,700		4.91	20.9		1
01656	Lithium	7439-93-2	23.9		0.23	2.1		1
01657	Magnesium	7439-95-4	3,930		2.65	10.4		1
06958	Manganese	7439-96-5	150		0.0813	0.521		1
10145	Phosphorus	7723-14-0	132		0.584	10.4		1
01662	Potassium	7440-09-7	1,000		18.8	52.1		1
01667	Sodium	7440-23-5	112		38.9	104		1
07968	Strontium	7440-24-6	18.4		0.0647	0.521		1
06969	Tin	7440-31-5	3.58	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,000		0.396	1.04		1
10146	Zirconium	7440-67-7	1.06	J	0.876	5.21		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.158	J	0.0632	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.09		0.0842	0.421		2
06126	Barium	7440-39-3	86.5		0.114	0.421		2
06127	Beryllium	7440-41-7	0.938		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0525	J	0.0421	0.105		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-239-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-239-SA5A-SB-4.0-5.0

LLI Sample # SW 6237967
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 09:34

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-1 SDG#: DE111-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	20.7	0.126	0.421		2
06132	Cobalt	7440-48-4	6.53	0.0211	0.105		2
06133	Copper	7440-50-8	8.46	0.0695	0.421		2
06135	Lead	7439-92-1	8.49	0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.485	0.0527	0.105		2
06139	Nickel	7440-02-0	11.3	0.105	0.421		2
06141	Selenium	7782-49-2	0.0890 J	0.0421	0.421		2
06142	Silver	7440-22-4	0.0753 J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.247	0.0316	0.105		2
06148	Vanadium	7440-62-2	43.2	0.0232	0.105		2
06149	Zinc	7440-66-6	35.5	0.590	3.16		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034 J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0	0.87	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	446	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.27	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-239-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-239-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-239-SA5A-SB-4.0-5.0

LLI Sample # SW 6237967
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 09:34

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-1 SDG#: DE111-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 05:52	Angela D Sneeringer	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110832AA	03/24/2011 22:46	Sara E Johnson	24.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108323925	03/24/2011 18:00	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108323925	03/24/2011 18:18	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108323925	03/24/2011 18:18	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108323925	03/24/2011 17:57	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 11:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/02/2011 22:05	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	03/31/2011 23:02	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011 17:35	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110835708003	03/25/2011 06:09	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110831026001A	03/27/2011 14:20	David K Beck	2
06125	Arsenic	SW-846 6020	1	110831026001A	03/27/2011 14:20	David K Beck	2
06126	Barium	SW-846 6020	1	110831026001D	03/27/2011 14:20	David K Beck	2
06127	Beryllium	SW-846 6020	1	110831026001A	03/27/2011 14:20	David K Beck	2
06128	Cadmium	SW-846 6020	1	110831026001A	03/29/2011 09:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110831026001A	03/27/2011 14:20	David K Beck	2
06132	Cobalt	SW-846 6020	1	110831026001A	03/27/2011 14:20	David K Beck	2
06133	Copper	SW-846 6020	1	110831026001A	03/27/2011 14:20	David K Beck	2
06135	Lead	SW-846 6020	1	110831026001A	03/27/2011 14:20	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110831026001C	03/27/2011 14:20	David K Beck	2
06139	Nickel	SW-846 6020	1	110831026001A	03/27/2011 14:20	David K Beck	2
06141	Selenium	SW-846 6020	1	110831026001B	03/27/2011 14:20	David K Beck	2
06142	Silver	SW-846 6020	1	110831026001A	03/27/2011 14:20	David K Beck	2
06145	Thallium	SW-846 6020	1	110831026001A	03/27/2011 14:20	David K Beck	2
06148	Vanadium	SW-846 6020	1	110831026001A	03/27/2011 14:20	David K Beck	2
06149	Zinc	SW-846 6020	1	110831026001A	03/27/2011 14:20	David K Beck	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-239-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-239-SA5A-SB-4.0-5.0

LLI Sample # SW 6237967
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 09:34

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-1 SDG#: DE111-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	110835711003	03/25/2011 06:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110835708003	03/24/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110831026001	03/24/2011 20:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110835711003	03/24/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201A	03/29/2011 18:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201A	03/29/2011 16:23	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11089243201A	04/04/2011 16:32	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201A	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201A	03/25/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11087182101A	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401A	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-240-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-4.0-5.0

LLI Sample # SW 6237968
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 10:55

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-2 SDG#: DE111-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.88
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.88
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.88
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.88
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.88
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.88
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.88
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.88
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.88
06192	Methylene Chloride	75-09-2	2.5	J	0.24	3.9		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.88

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Sample Description: SL-240-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-4.0-5.0

LLI Sample # SW 6237968
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 10:55

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-2 SDG#: DE111-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.88
06192	Toluene	108-88-3	0.09	J	0.08	3.9		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.88
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.49
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-240-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-4.0-5.0

LLI Sample # SW 6237968
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 10:55

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-2 SDG#: DE111-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.95	J	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.0	J	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	1.5	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	36		6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1

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Sample Description: **SL-240-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-4.0-5.0

LLI Sample # SW 6237968
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 10:55

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-2 SDG#: DE111-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.87	J	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	2.2		0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,900		5.50	21.9		1
07914	Boron	7440-42-8	2.79	J	0.973	5.46		1
01650	Calcium	7440-70-2	2,890		6.70	21.9		1
01654	Iron	7439-89-6	24,700		5.15	21.9		1
01656	Lithium	7439-93-2	29.2		0.24	2.2		1
01657	Magnesium	7439-95-4	5,120		2.78	10.9		1
06958	Manganese	7439-96-5	272		0.0853	0.546		1
10145	Phosphorus	7723-14-0	197		0.612	10.9		1
01662	Potassium	7440-09-7	1,900		19.7	54.6		1
01667	Sodium	7440-23-5	125		40.8	109		1
07968	Strontium	7440-24-6	25.3		0.0678	0.546		1
06969	Tin	7440-31-5	3.14	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,260		0.415	1.09		1
10146	Zirconium	7440-67-7	1.34	J	0.918	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.34		0.0883	0.442		2
06126	Barium	7440-39-3	112		0.119	0.442		2
06127	Beryllium	7440-41-7	0.716		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.109	J	0.0442	0.110		2

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Sample Description: SL-240-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-4.0-5.0

LLI Sample # SW 6237968
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 10:55

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-2 SDG#: DE111-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	22.8	0.132	0.442		2
06132	Cobalt	7440-48-4	5.45	0.0221	0.110		2
06133	Copper	7440-50-8	9.57	0.0729	0.442		2
06135	Lead	7439-92-1	5.83	0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.326	0.0552	0.110		2
06139	Nickel	7440-02-0	13.9	0.110	0.442		2
06141	Selenium	7782-49-2	0.0603 J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0503 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.253	0.0331	0.110		2
06148	Vanadium	7440-62-2	44.0	0.0243	0.110		2
06149	Zinc	7440-66-6	49.5	0.618	3.31		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.89 U	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	418	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.67	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-240-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-240-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-4.0-5.0

LLI Sample # SW 6237968
LLI Group # 1238730
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 10:55

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-2 SDG#: DE111-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 06:15	Angela D Sneeringer	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110832AA	03/24/2011 23:06	Sara E Johnson	20.49
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108323925	03/24/2011 18:04	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108323925	03/24/2011 18:18	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108323925	03/24/2011 18:19	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108323925	03/24/2011 18:01	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 11:59	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/02/2011 22:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	03/31/2011 23:20	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011 17:35	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110835708003	03/25/2011 06:33	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110831026001A	03/27/2011 14:38	David K Beck	2
06125	Arsenic	SW-846 6020	1	110831026001A	03/27/2011 14:38	David K Beck	2
06126	Barium	SW-846 6020	1	110831026001D	03/27/2011 14:38	David K Beck	2
06127	Beryllium	SW-846 6020	1	110831026001A	03/27/2011 14:38	David K Beck	2
06128	Cadmium	SW-846 6020	1	110831026001A	03/29/2011 09:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110831026001A	03/27/2011 14:38	David K Beck	2
06132	Cobalt	SW-846 6020	1	110831026001A	03/27/2011 14:38	David K Beck	2
06133	Copper	SW-846 6020	1	110831026001A	03/27/2011 14:38	David K Beck	2
06135	Lead	SW-846 6020	1	110831026001A	03/27/2011 14:38	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110831026001C	03/27/2011 14:38	David K Beck	2
06139	Nickel	SW-846 6020	1	110831026001A	03/27/2011 14:38	David K Beck	2
06141	Selenium	SW-846 6020	1	110831026001B	03/27/2011 14:38	David K Beck	2
06142	Silver	SW-846 6020	1	110831026001A	03/27/2011 14:38	David K Beck	2
06145	Thallium	SW-846 6020	1	110831026001A	03/27/2011 14:38	David K Beck	2
06148	Vanadium	SW-846 6020	1	110831026001A	03/27/2011 14:38	David K Beck	2
06149	Zinc	SW-846 6020	1	110831026001A	03/27/2011 14:38	David K Beck	2

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Sample Description: **SL-240-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-4.0-5.0

LLI Sample # SW 6237968
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 10:55

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-2 SDG#: DE111-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	110835711003	03/25/2011 06:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110835708003	03/24/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110831026001	03/24/2011 20:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110835711003	03/24/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201A	03/29/2011 18:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201A	03/29/2011 16:46	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11089243201A	04/04/2011 16:43	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201A	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201A	03/25/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11087182101A	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401A	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-240-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-9.0-10.0

LLI Sample # SW 6237969
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 11:03

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-3 SDG#: DE111-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

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Sample Description: SL-240-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-9.0-10.0

LLI Sample # SW 6237969
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 11:03

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-3 SDG#: DE111-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1

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Sample Description: SL-240-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-9.0-10.0

LLI Sample # SW 6237969
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 11:03

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-3 SDG#: DE111-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		5.78	23.0		1
07914	Boron	7440-42-8	2.48	J	1.02	5.74		1
01650	Calcium	7440-70-2	3,160		7.04	23.0		1
01654	Iron	7439-89-6	25,900		5.41	23.0		1
01656	Lithium	7439-93-2	35.2		0.25	2.3		1
01657	Magnesium	7439-95-4	5,290		2.92	11.5		1
06958	Manganese	7439-96-5	297		0.0896	0.574		1
10145	Phosphorus	7723-14-0	217		0.643	11.5		1
01662	Potassium	7440-09-7	2,080		20.7	57.4		1
01667	Sodium	7440-23-5	140		42.9	115		1
07968	Strontium	7440-24-6	19.8		0.0712	0.574		1
06969	Tin	7440-31-5	2.96	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,310		0.437	1.15		1
10146	Zirconium	7440-67-7	0.965	U	0.965	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0710	0.237		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.04		0.0947	0.473		2
06126	Barium	7440-39-3	103		0.128	0.473		2
06127	Beryllium	7440-41-7	0.894		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.130		0.0473	0.118		2
06131	Chromium	7440-47-3	25.9		0.142	0.473		2
06132	Cobalt	7440-48-4	9.31		0.0237	0.118		2
06133	Copper	7440-50-8	13.3		0.0781	0.473		2
06135	Lead	7439-92-1	7.64		0.0123	0.237		2
06138	Molybdenum	7439-98-7	0.380		0.0592	0.118		2
06139	Nickel	7440-02-0	16.5		0.118	0.473		2
06141	Selenium	7782-49-2	0.0580	J	0.0473	0.473		2
06142	Silver	7440-22-4	0.130		0.0142	0.118		2
06145	Thallium	7440-28-0	0.320		0.0355	0.118		2
06148	Vanadium	7440-62-2	49.2		0.0260	0.118		2
06149	Zinc	7440-66-6	53.8		0.663	3.55		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.95	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5		1

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Sample Description: SL-240-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-9.0-10.0

LLI Sample # SW 6237969
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 11:03

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Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-3 SDG#: DE111-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	J	0.24	1.2		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	455		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 12:24	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/02/2011 23:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	03/31/2011 23:39	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011 17:35	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1

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Sample Description: SL-240-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-9.0-10.0

LLI Sample # SW 6237969
LLI Group # 1238730
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CDM Federal Programs Corp.
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Suite 210
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111-3 SDG#: DE111-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110835708003	03/25/2011 06:44	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110831026001A	03/27/2011 14:41	David K Beck	2
06125	Arsenic	SW-846 6020	1	110831026001A	03/27/2011 14:41	David K Beck	2
06126	Barium	SW-846 6020	1	110831026001D	03/27/2011 14:41	David K Beck	2
06127	Beryllium	SW-846 6020	1	110831026001A	03/27/2011 14:41	David K Beck	2
06128	Cadmium	SW-846 6020	1	110831026001A	03/29/2011 09:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110831026001A	03/27/2011 14:41	David K Beck	2
06132	Cobalt	SW-846 6020	1	110831026001A	03/27/2011 14:41	David K Beck	2
06133	Copper	SW-846 6020	1	110831026001A	03/27/2011 14:41	David K Beck	2
06135	Lead	SW-846 6020	1	110831026001A	03/27/2011 14:41	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110831026001C	03/27/2011 14:41	David K Beck	2
06139	Nickel	SW-846 6020	1	110831026001A	03/27/2011 14:41	David K Beck	2
06141	Selenium	SW-846 6020	1	110831026001B	03/27/2011 14:41	David K Beck	2
06142	Silver	SW-846 6020	1	110831026001A	03/27/2011 14:41	David K Beck	2
06145	Thallium	SW-846 6020	1	110831026001A	03/27/2011 14:41	David K Beck	2
06148	Vanadium	SW-846 6020	1	110831026001A	03/27/2011 14:41	David K Beck	2
06149	Zinc	SW-846 6020	1	110831026001A	03/27/2011 14:41	David K Beck	2
00159	Mercury	SW-846 7471A	1	110835711003	03/25/2011 06:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110835708003	03/24/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110831026001	03/24/2011 20:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110835711003	03/24/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201A	03/29/2011 19:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201A	03/29/2011 17:08	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11089243201A	04/04/2011 17:00	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201A	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201A	03/25/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11087182101A	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401A	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-197-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-4.0-5.0

LLI Sample # SW 6237970
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:14

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-4 SDG#: DE111-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.89
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.89
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.89
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.89
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.89
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.89
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.89
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.89
06192	Methylene Chloride	75-09-2	2.3	J	0.24	4.0		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.89

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SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-4.0-5.0

LLI Sample # SW 6237970
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:14

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-4 SDG#: DE111-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.73
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-4.0-5.0

LLI Sample # SW 6237970
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:14

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CDM Federal Programs Corp.
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111-4 SDG#: DE111-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.92	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.98	J	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-4.0-5.0

LLI Sample # SW 6237970
LLI Group # 1238730
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:14

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111-4 SDG#: DE111-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	110	U	110	370		100
10225	Aroclor 5442	12642-23-8	110	U	110	370		100
10225	Aroclor 5460	11126-42-4	110	U	110	370		100
10225	PCB-1016	12674-11-2	37	U	37	190		100
10225	PCB-1221	11104-28-2	37	U	37	190		100
10225	PCB-1232	11141-16-5	37	U	37	190		100
10225	PCB-1242	53469-21-9	37	U	37	190		100
10225	PCB-1248	12672-29-6	37	U	37	190		100
10225	PCB-1254	11097-69-1	37	U	37	190		100
10225	PCB-1260	11096-82-5	170	J	43	190		100
10225	PCB-1262	37324-23-5	37	U	37	190		100
10225	PCB-1268	11100-14-4	37	U	37	190		100
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,100		5.44	21.6		1
07914	Boron	7440-42-8	3.17	J	0.962	5.41		1
01650	Calcium	7440-70-2	2,560		6.63	21.6		1
01654	Iron	7439-89-6	26,700		5.09	21.6		1
01656	Lithium	7439-93-2	28.0		0.24	2.2		1
01657	Magnesium	7439-95-4	4,950		2.75	10.8		1
06958	Manganese	7439-96-5	242		0.0843	0.541		1
10145	Phosphorus	7723-14-0	184		0.605	10.8		1
01662	Potassium	7440-09-7	1,520		19.5	54.1		1
01667	Sodium	7440-23-5	152		40.3	108		1
07968	Strontium	7440-24-6	21.9		0.0670	0.541		1
06969	Tin	7440-31-5	3.15	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,170		0.411	1.08		1
10146	Zirconium	7440-67-7	0.908	U	0.908	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.00		0.0882	0.441		2
06126	Barium	7440-39-3	114		0.119	0.441		2

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SL-197-SA5A-SB-4.0-5.0

LLI Sample # SW 6237970
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111-4 SDG#: DE111-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.912	0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0755 J	0.0441	0.110		2
06131	Chromium	7440-47-3	28.1	0.132	0.441		2
06132	Cobalt	7440-48-4	15.5	0.0221	0.110		2
06133	Copper	7440-50-8	10.2	0.0728	0.441		2
06135	Lead	7439-92-1	9.74	0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.683	0.0551	0.110		2
06139	Nickel	7440-02-0	16.5	0.110	0.441		2
06141	Selenium	7782-49-2	0.117 J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0695 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.279	0.0331	0.110		2
06148	Vanadium	7440-62-2	53.7	0.0243	0.110		2
06149	Zinc	7440-66-6	46.2	0.617	3.31		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072 J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	492	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.22	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-197-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-4.0-5.0

LLI Sample # SW 6237970
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:14

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-4 SDG#: DE111-04

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-197-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 06:37	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110832AA	03/24/2011 23:26	Sara E Johnson	22.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108323925	03/24/2011 18:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108323925	03/24/2011 18:19	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108323925	03/24/2011 18:19	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108323925	03/24/2011 18:06	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 12:49	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/02/2011 23:40	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	03/31/2011 23:57	Richard A Shober	100
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011 17:35	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110835708003	03/25/2011 06:49	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110831026001A	03/27/2011 14:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	110831026001A	03/27/2011 14:51	David K Beck	2
06126	Barium	SW-846 6020	1	110831026001D	03/27/2011 14:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	110831026001A	03/27/2011 14:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	110831026001A	03/29/2011 09:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110831026001A	03/27/2011 14:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	110831026001A	03/27/2011 14:51	David K Beck	2
06133	Copper	SW-846 6020	1	110831026001A	03/27/2011 14:51	David K Beck	2
06135	Lead	SW-846 6020	1	110831026001A	03/27/2011 14:51	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-197-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-4.0-5.0

LLI Sample # SW 6237970
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:14

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-4 SDG#: DE111-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	110831026001C	03/27/2011 14:51	David K Beck	2
06139	Nickel	SW-846 6020	1	110831026001A	03/27/2011 14:51	David K Beck	2
06141	Selenium	SW-846 6020	1	110831026001B	03/27/2011 14:51	David K Beck	2
06142	Silver	SW-846 6020	1	110831026001A	03/27/2011 14:51	David K Beck	2
06145	Thallium	SW-846 6020	1	110831026001A	03/27/2011 14:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	110831026001A	03/27/2011 14:51	David K Beck	2
06149	Zinc	SW-846 6020	1	110831026001A	03/27/2011 14:51	David K Beck	2
00159	Mercury	SW-846 7471A	1	110835711003	03/25/2011 06:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110835708003	03/24/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110831026001	03/24/2011 20:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110835711003	03/24/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201B	03/29/2011 19:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201B	03/29/2011 17:31	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11089243201A	04/04/2011 17:12	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201B	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201B	03/25/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11087182101A	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401A	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-197-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-8.0-9.0

LLI Sample # SW 6237971
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:23

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-5 SDG#: DE111-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

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Sample Description: SL-197-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-8.0-9.0

LLI Sample # SW 6237971
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:23

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-5 SDG#: DE111-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.99	J	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.88	J	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	2.1		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	1.6	J	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.82	J	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.92	J	0.79	2.0		1
10138	Pyrene	129-00-0	1.8	J	0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	120	U	120	390		100
10225	Aroclor 5442	12642-23-8	120	U	120	390		100
10225	Aroclor 5460	11126-42-4	120	U	120	390		100
10225	PCB-1016	12674-11-2	39	U	39	200		100
10225	PCB-1221	11104-28-2	39	U	39	200		100
10225	PCB-1232	11141-16-5	39	U	39	200		100
10225	PCB-1242	53469-21-9	39	U	39	200		100
10225	PCB-1248	12672-29-6	39	U	39	200		100
10225	PCB-1254	11097-69-1	39	U	39	200		100
10225	PCB-1260	11096-82-5	46	U	46	200		100
10225	PCB-1262	37324-23-5	39	U	39	200		100

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-197-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-8.0-9.0

LLI Sample # SW 6237971
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:23

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-5 SDG#: DE111-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	39	U	39	200		100
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,600		5.80	23.1		1
07914	Boron	7440-42-8	3.70	J	1.03	5.77		1
01650	Calcium	7440-70-2	8,910		7.07	23.1		1
01654	Iron	7439-89-6	52,800		27.2	115		5
01656	Lithium	7439-93-2	64.4		0.25	2.3		1
01657	Magnesium	7439-95-4	11,900		2.93	11.5		1
06958	Manganese	7439-96-5	306		0.0899	0.577		1
10145	Phosphorus	7723-14-0	365		0.646	11.5		1
01662	Potassium	7440-09-7	2,320		20.8	57.7		1
01667	Sodium	7440-23-5	452		43.0	115		1
07968	Strontium	7440-24-6	52.4		0.0715	0.577		1
06969	Tin	7440-31-5	3.69	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,090		0.438	1.15		1
10146	Zirconium	7440-67-7	0.969	U	0.969	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.232		0.0685	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.5		0.0914	0.457		2
06126	Barium	7440-39-3	198		0.123	0.457		2
06127	Beryllium	7440-41-7	1.60		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.0776	J	0.0457	0.114		2
06131	Chromium	7440-47-3	59.9		0.137	0.457		2
06132	Cobalt	7440-48-4	22.1		0.0228	0.114		2
06133	Copper	7440-50-8	32.0		0.0754	0.457		2
06135	Lead	7439-92-1	19.1		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.394		0.0571	0.114		2
06139	Nickel	7440-02-0	38.2		0.114	0.457		2
06141	Selenium	7782-49-2	0.134	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.192		0.0137	0.114		2
06145	Thallium	7440-28-0	0.478		0.0343	0.114		2
06148	Vanadium	7440-62-2	77.5		0.0251	0.114		2
06149	Zinc	7440-66-6	107		0.640	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0337	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3		0.95	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-197-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-8.0-9.0

LLI Sample # SW 6237971
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:23

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-5 SDG#: DE111-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	486		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011	13:15	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011	00:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011	07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011	10:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	04/01/2011	00:16	Richard A Shober	100
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011	17:35	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110835708003	03/25/2011	06:53	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110835708003	03/25/2011	06:53	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110835708003	03/25/2011	06:53	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110835708003	03/25/2011	11:53	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110835708003	03/25/2011	06:53	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110835708003	03/25/2011	06:53	Joanne M Gates	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-197-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-8.0-9.0

LLI Sample # SW 6237971
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:23

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-5 SDG#: DE111-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110835708003	03/25/2011 06:53	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110835708003	03/25/2011 06:53	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110835708003	03/25/2011 06:53	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110835708003	03/25/2011 06:53	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110835708003	03/25/2011 06:53	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110835708003	03/25/2011 06:53	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110835708003	03/25/2011 06:53	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110835708003	03/25/2011 06:53	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110831026001A	03/27/2011 14:54	David K Beck	2
06125	Arsenic	SW-846 6020	1	110831026001A	03/27/2011 14:54	David K Beck	2
06126	Barium	SW-846 6020	1	110831026001D	03/27/2011 14:54	David K Beck	2
06127	Beryllium	SW-846 6020	1	110831026001A	03/27/2011 14:54	David K Beck	2
06128	Cadmium	SW-846 6020	1	110831026001A	03/29/2011 09:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110831026001A	03/27/2011 14:54	David K Beck	2
06132	Cobalt	SW-846 6020	1	110831026001A	03/27/2011 14:54	David K Beck	2
06133	Copper	SW-846 6020	1	110831026001A	03/27/2011 14:54	David K Beck	2
06135	Lead	SW-846 6020	1	110831026001A	03/27/2011 14:54	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110831026001C	03/27/2011 14:54	David K Beck	2
06139	Nickel	SW-846 6020	1	110831026001A	03/27/2011 14:54	David K Beck	2
06141	Selenium	SW-846 6020	1	110831026001B	03/27/2011 14:54	David K Beck	2
06142	Silver	SW-846 6020	1	110831026001A	03/27/2011 14:54	David K Beck	2
06145	Thallium	SW-846 6020	1	110831026001A	03/27/2011 14:54	David K Beck	2
06148	Vanadium	SW-846 6020	1	110831026001A	03/27/2011 14:54	David K Beck	2
06149	Zinc	SW-846 6020	1	110831026001A	03/27/2011 14:54	David K Beck	2
00159	Mercury	SW-846 7471A	1	110835711003	03/25/2011 06:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110835708003	03/24/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110831026001	03/24/2011 20:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110835711003	03/24/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201B	03/29/2011 20:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201B	03/29/2011 19:01	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11089243201A	04/04/2011 17:18	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201B	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201B	03/25/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11087182101A	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401A	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-198-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5A-SB-3.0-4.0

LLI Sample # SW 6237972
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:24

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-6 SDG#: DE111-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.98
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.98
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.98
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.98
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.98
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.98
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.98
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.98
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.98
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.98
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.98
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.98
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.98
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.98
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.98
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.98
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.98
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.98
06192	Methylene Chloride	75-09-2	2.5	J	0.26	4.4		0.98
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.98

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-198-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5A-SB-3.0-4.0

LLI Sample # SW 6237972
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:24

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-6 SDG#: DE111-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.98
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.98
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.98
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.98
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.98
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.98
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		24.75
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-198-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5A-SB-3.0-4.0

LLI Sample # SW 6237972
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:24

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-6 SDG#: DE111-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.6	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-198-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5A-SB-3.0-4.0

LLI Sample # SW 6237972
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:24

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-6 SDG#: DE111-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,400		5.48	21.8		1
07914	Boron	7440-42-8	6.65		0.970	5.45		1
01650	Calcium	7440-70-2	2,610		6.68	21.8		1
01654	Iron	7439-89-6	26,800		5.13	21.8		1
01656	Lithium	7439-93-2	38.8		0.24	2.2		1
01657	Magnesium	7439-95-4	5,540		2.77	10.9		1
06958	Manganese	7439-96-5	436		0.0850	0.545		1
10145	Phosphorus	7723-14-0	245		0.610	10.9		1
01662	Potassium	7440-09-7	2,060		19.6	54.5		1
01667	Sodium	7440-23-5	120		40.6	109		1
07968	Strontium	7440-24-6	21.9		0.0676	0.545		1
06969	Tin	7440-31-5	2.93	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,280		0.414	1.09		1
10146	Zirconium	7440-67-7	0.915	U	0.915	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0926	J	0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.27		0.0889	0.444		2
06126	Barium	7440-39-3	95.3		0.120	0.444		2
06127	Beryllium	7440-41-7	0.661		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.0581	J	0.0444	0.111		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-198-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5A-SB-3.0-4.0

LLI Sample # SW 6237972
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:24

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-6 SDG#: DE111-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	34.2	0.133	0.444		2
06132	Cobalt	7440-48-4	9.52	0.0222	0.111		2
06133	Copper	7440-50-8	9.28	0.0733	0.444		2
06135	Lead	7439-92-1	6.71	0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.558	0.0556	0.111		2
06139	Nickel	7440-02-0	24.3	0.111	0.444		2
06141	Selenium	7782-49-2	0.156 J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0289 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.315	0.0333	0.111		2
06148	Vanadium	7440-62-2	51.5	0.0244	0.111		2
06149	Zinc	7440-66-6	50.8	0.622	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0049 J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	537	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.06	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-198-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-198-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5A-SB-3.0-4.0

LLI Sample # SW 6237972
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:24

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-6 SDG#: DE111-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 06:59	Angela D Sneeringer	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110832AA	03/24/2011 23:46	Sara E Johnson	24.75
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108323925	03/24/2011 18:12	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108323925	03/24/2011 18:19	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108323925	03/24/2011 18:19	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108323925	03/24/2011 18:10	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 13:40	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 00:43	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	04/01/2011 00:34	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011 17:35	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110835708003	03/25/2011 06:57	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110831026001A	03/27/2011 14:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	110831026001A	03/27/2011 14:57	David K Beck	2
06126	Barium	SW-846 6020	1	110831026001D	03/27/2011 14:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	110831026001A	03/27/2011 14:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	110831026001A	03/29/2011 09:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110831026001A	03/27/2011 14:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	110831026001A	03/27/2011 14:57	David K Beck	2
06133	Copper	SW-846 6020	1	110831026001A	03/27/2011 14:57	David K Beck	2
06135	Lead	SW-846 6020	1	110831026001A	03/27/2011 14:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110831026001C	03/27/2011 14:57	David K Beck	2
06139	Nickel	SW-846 6020	1	110831026001A	03/27/2011 14:57	David K Beck	2
06141	Selenium	SW-846 6020	1	110831026001B	03/27/2011 14:57	David K Beck	2
06142	Silver	SW-846 6020	1	110831026001A	03/27/2011 14:57	David K Beck	2
06145	Thallium	SW-846 6020	1	110831026001A	03/27/2011 14:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	110831026001A	03/27/2011 14:57	David K Beck	2
06149	Zinc	SW-846 6020	1	110831026001A	03/27/2011 14:57	David K Beck	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-198-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5A-SB-3.0-4.0

LLI Sample # SW 6237972
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:24

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-6 SDG#: DE111-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	110835711003	03/25/2011 06:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110835708003	03/24/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110831026001	03/24/2011 20:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110835711003	03/24/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201B	03/29/2011 20:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201B	03/29/2011 19:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11089243201A	04/04/2011 17:30	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201B	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201B	03/25/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11087182101A	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401A	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-200-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5A-SB-4.0-5.0

LLI Sample # SW 6237973
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 15:49

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-7 SDG#: DE111-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.4		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.96
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.96
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.96
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.96
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.96
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.96
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.96
06192	Methylene Chloride	75-09-2	2.7	J	0.25	4.2		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.96

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Sample Description: SL-200-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5A-SB-4.0-5.0

LLI Sample # SW 6237973
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 15:49

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-7 SDG#: DE111-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.96
06192	Toluene	108-88-3	0.09	J	0.08	4.2		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.96
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.76
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-200-SA5A-SB-4.0-5.0

LLI Sample # SW 6237973
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 15:49

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-7 SDG#: DE111-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1

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Sample Description: SL-200-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5A-SB-4.0-5.0

LLI Sample # SW 6237973
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 15:49

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-7 SDG#: DE111-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		5.31	21.1		1
07914	Boron	7440-42-8	1.93	J	0.940	5.28		1
01650	Calcium	7440-70-2	1,980		6.48	21.1		1
01654	Iron	7439-89-6	19,400		4.98	21.1		1
01656	Lithium	7439-93-2	13.8		0.23	2.1		1
01657	Magnesium	7439-95-4	3,550		2.68	10.6		1
06958	Manganese	7439-96-5	87.4		0.0824	0.528		1
10145	Phosphorus	7723-14-0	62.4		0.592	10.6		1
01662	Potassium	7440-09-7	1,180		19.0	52.8		1
01667	Sodium	7440-23-5	433		39.4	106		1
07968	Strontium	7440-24-6	17.9		0.0655	0.528		1
06969	Tin	7440-31-5	2.93	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,090		0.402	1.06		1
10146	Zirconium	7440-67-7	0.888	U	0.888	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0974	J	0.0653	0.218		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

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Sample Description: SL-200-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5A-SB-4.0-5.0

LLI Sample # SW 6237973
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 15:49

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14420 Albemarle Point Place
Suite 210
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111-7 SDG#: DE111-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	3.16	0.0870	0.435		2
06126	Barium	7440-39-3	69.0	0.118	0.435		2
06127	Beryllium	7440-41-7	0.511	0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0435 U	0.0435	0.109		2
06131	Chromium	7440-47-3	21.9	0.131	0.435		2
06132	Cobalt	7440-48-4	3.17	0.0218	0.109		2
06133	Copper	7440-50-8	6.50	0.0718	0.435		2
06135	Lead	7439-92-1	5.12	0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.232	0.0544	0.109		2
06139	Nickel	7440-02-0	7.49	0.109	0.435		2
06141	Selenium	7782-49-2	0.0435 U	0.0435	0.435		2
06142	Silver	7440-22-4	0.0408 J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.203	0.0326	0.109		2
06148	Vanadium	7440-62-2	32.2	0.0239	0.109		2
06149	Zinc	7440-66-6	28.4	0.609	3.26		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	498	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.61	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-200-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5A-SB-4.0-5.0

LLI Sample # SW 6237973
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 15:49

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111-7 SDG#: DE111-07

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-200-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 07:22	Angela D Sneeringer	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110832AA	03/25/2011 00:06	Sara E Johnson	23.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108323925	03/24/2011 18:16	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108323925	03/24/2011 18:19	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108323925	03/24/2011 18:19	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108323925	03/24/2011 18:14	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 14:05	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 01:14	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110900028A	04/01/2011 15:26	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	04/01/2011 00:53	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011 17:35	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110900028A	04/01/2011 09:15	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110835708003	03/25/2011 07:01	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110831026001A	03/27/2011 15:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	110831026001A	03/27/2011 15:00	David K Beck	2
06126	Barium	SW-846 6020	1	110831026001D	03/27/2011 15:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	110831026001A	03/27/2011 15:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	110831026001A	03/27/2011 15:00	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-200-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5A-SB-4.0-5.0

LLI Sample # SW 6237973
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 15:49

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-7 SDG#: DE111-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110831026001A	03/27/2011 15:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	110831026001A	03/27/2011 15:00	David K Beck	2
06133	Copper	SW-846 6020	1	110831026001A	03/27/2011 15:00	David K Beck	2
06135	Lead	SW-846 6020	1	110831026001A	03/27/2011 15:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110831026001C	03/27/2011 15:00	David K Beck	2
06139	Nickel	SW-846 6020	1	110831026001A	03/27/2011 15:00	David K Beck	2
06141	Selenium	SW-846 6020	1	110831026001B	03/27/2011 15:00	David K Beck	2
06142	Silver	SW-846 6020	1	110831026001A	03/27/2011 15:00	David K Beck	2
06145	Thallium	SW-846 6020	1	110831026001A	03/27/2011 15:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	110831026001A	03/27/2011 15:00	David K Beck	2
06149	Zinc	SW-846 6020	1	110831026001A	03/27/2011 15:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	110835711003	03/25/2011 06:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110835708003	03/24/2011 20:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110831026001	03/24/2011 20:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110835711003	03/24/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201B	03/29/2011 20:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201B	03/29/2011 19:46	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11089243201A	04/04/2011 17:47	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201B	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201B	03/25/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11087182101A	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401A	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

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Analysis Report

Sample Description: **EB09-SA5A-032311 Water**
SSFL Area IV Collocated Soil Sampling
EB09-SA5A-032311

LLI Sample # WW 6237974
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:30

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-8 SDG#: DE111-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.879	J	0.497	0.993		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of .673 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was again detected in the method blank and sample. The data reported here is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.32	U	0.32	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
	Due to interfering peaks on the chromatogram, the values reported for RDX represent the lowest reporting limits attainable.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB09-SA5A-032311 Water
SSFL Area IV Collocated Soil Sampling
EB09-SA5A-032311

LLI Sample # WW 6237974
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:30

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-8 SDG#: DE111-08EB

CAT No.	Analysis Name		CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics		**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A		50-00-0	10	U	10	50		1
GC Extractable TPH		**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)		n.a.	0.097	U	0.097	0.58		1
10365	EFH (C15-C20)		n.a.	0.097	U	0.097	0.58		1
10365	EFH (C21-C30)		n.a.	0.097	U	0.097	0.58		1
10365	EFH (C30 - C40)		n.a.	0.097	U	0.097	0.58		1
10365	EFH (C8-C11)		n.a.	0.097	U	0.097	0.58		1
GC Miscellaneous		**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol		64-17-5	200	U	200	1,000		1
06624	Isopropanol		67-63-0	200	U	200	1,000		1
06624	Methanol		67-56-1	200	U	200	1,000		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol		111-46-6	10	J	10	100		1
08278	Ethylene glycol		107-21-1	14	J	10	100		1
08278	Propylene glycol		57-55-6	10	U	10	100		1
Terphenyls		**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl		92-06-8	0.15	U	0.15	0.47		1
10319	o-Terphenyl		84-15-1	0.15	U	0.15	0.47		1
10319	p-Terphenyl		92-94-4	0.15	U	0.15	0.47		1
Wet Chemistry		**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate		14797-55-8	0.050	U	0.050	0.10		1
		SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B		57-12-5	0.0050	U	0.0050	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11088WAC026	03/30/2011 16:45	Timothy J Trees	1

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Analysis Report

Sample Description: EB09-SA5A-032311 Water
SSFL Area IV Collocated Soil Sampling
EB09-SA5A-032311

LLI Sample # WW 6237974
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:30

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-8 SDG#: DE111-08EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11088WAC026	03/29/2011 12:40	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11094A20A	04/04/2011 14:12	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11094A20A	04/04/2011 14:12	Laura M Krieger	1
10131	16b Energetics by 8330A	SW-846 8330A	1	110830004A	03/26/2011 12:47	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	110840013A	03/28/2011 18:05	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	110840013A	03/26/2011 10:45	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	110830004A	03/24/2011 15:00	Wanda F Oswald	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110870025A	03/30/2011 04:41	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	110840032A	03/25/2011 20:04	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	110890006A	03/30/2011 15:49	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	110870021A	04/01/2011 16:47	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	110870025A	03/29/2011 08:10	Catherine R Wiker	1
10304	Terphenyls water prep	SW-846 3510C	1	110870021A	03/29/2011 08:00	Catherine R Wiker	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11083196603B	03/25/2011 04:56	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11095117101B	04/05/2011 19:08	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11095117101B	04/05/2011 10:25	Nancy J Shoop	1

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Analysis Report

Sample Description: **TB-032311 Water**
SSFL Area IV Collocated Soil Sampling
TB-032311

LLI Sample # WW 6237975
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 08:00

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-9 SDG#: DE111-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-032311 Water
SSFL Area IV Collocated Soil Sampling
TB-032311

LLI Sample # WW 6237975
LLI Group # 1238730
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 08:00

Submitted: 03/24/2011 09:45
Reported: 04/11/2011 13:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

111-9 SDG#: DE111-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110883AA	03/29/2011 20:38	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110831AA	03/24/2011 13:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110831AA	03/24/2011 13:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110883AA	03/29/2011 20:38	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238730
Reported: 04/11/11 at 01:34 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110861AA	Sample number(s): 6237967-6237968,6237970,6237972-6237973									
Acetone	7.7	J	6.7	8.0	ug/kg	196		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	105		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	98		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	128*		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	82		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	104		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	148		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	108		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	108		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	101		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	90		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	98		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	102		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	103		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	103		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	99		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	93		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	98		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	87		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	88		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	102		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	107		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	101		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	94		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	93		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	88		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	100		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	122		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	107		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	134		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	107		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238730
Reported: 04/11/11 at 01:34 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	103		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	114		61-134		
Methylene Chloride	0.95	J	0.24	4.0	ug/kg	111		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	108		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	90		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	107		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	96		77-120		
Toluene	0.16	J	0.08	4.0	ug/kg	100		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	95		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	85		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	106		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	105		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	103		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	98		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
Batch number: E110831AA	Sample number(s): 6237975									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	106	80-123	2	30
Batch number: E110832AA	Sample number(s): 6237967-6237968,6237970,6237972-6237973									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	111	119	70-130	7	30
Batch number: Y110883AA	Sample number(s): 6237975									
Acetone	6	U	6.	20	ug/l	104	109	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	101	102	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	104	105	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	109	113	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	104	105	80-120	1	30
Bromoform	1	U	1.	5	ug/l	87	87	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	120	123*	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	100	102	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	98	100	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	100	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	96	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	110	112	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	100	102	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	111	114	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	78	84	56-129	8	30
Chloroform	0.8	U	0.8	5	ug/l	109	111	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	81	85	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	102	105	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	99	101	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	75	76	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	96	96	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	95	96	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	103	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	108	110	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	100	101	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	104	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	101	102	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	96	96	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	103	105	79-120	1	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238730
Reported: 04/11/11 at 01:34 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	121	124	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	108	111	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	104	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	102	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	98	99	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	103	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	104	105	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	107	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	93	95	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	95	97	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	101	79-120	2	30
Freon 113	2	U	2.	10	ug/l	117	121	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	112	114	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	97	101	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	93	97	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	98	100	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	102	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	104	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	98	100	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	108	108	80-120	0	30
n-Propylbenzene	1	U	1.	5	ug/l	101	103	80-120	2	30
Styrene	1	U	1.	5	ug/l	94	96	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	102	103	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	95	97	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	105	113	80-121	8	30
Toluene	0.7	U	0.7	5	ug/l	99	99	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	98	102	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	99	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	112	113	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	101	101	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	104	106	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	137*	131*	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	105	108	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	103	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	101	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	95	97	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	100	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	95	98	80-120	3	30
Batch number: 11087SLC026	Sample number(s): 6237967-6237973									
Aniline	170 U		170.	500	ug/kg	61		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	40		15-121		
Benzoic acid	170 U		170.	500	ug/kg	77		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	78		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Carbazole	17	U	17.	170	ug/kg	89		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	76		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	44		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	79		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	76		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	63*		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	86		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	88		79-110		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238730
Reported: 04/11/11 at 01:34 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	88		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	67		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	92		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	81		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	87		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	83		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	70		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	83		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	87		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	78		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	86		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Isophorone	17	U	17.	170	ug/kg	73		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	80		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	82		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	86		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	80		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	57		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	70*		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	60		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	64		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	80		51-117		
Phenol	17	U	17.	170	ug/kg	76		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	87		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11088WAC026	Sample number(s): 6237974									
N-Nitrosodimethylamine	0.673	J	0.500	1.00	ng/l	94	98	70-130	4	30
Batch number: 11089SLD026	Sample number(s): 6237967-6237973									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	90		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	107		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	110		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	123		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	113		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	115		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	112		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	112		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	116		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	121		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	143*		79-121		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238730
Reported: 04/11/11 at 01:34 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	109		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	107		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	116		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	108		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	97		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	112		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	111		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	100		56-121		
Batch number: 11094A20A	Sample number(s): 6237974									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 110830004A	Sample number(s): 6237974									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	100	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	97	90	50-122	7	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	97	90	50-122	7	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	98	98	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	99	99	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	90	91	75-121	1	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	100	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	100	100	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	108	108	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	93	92	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	83	81	72-141	2	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	92	93	53-129	1	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	98	97	76-109	1	30
Batch number: 110840013A	Sample number(s): 6237974									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	110		69-130		
Batch number: 110900028A	Sample number(s): 6237973									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		70-130		
Batch number: 110870009A	Sample number(s): 6237967-6237973									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	79	76	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	91		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110870025A	Sample number(s): 6237974									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	94	96	60-120	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	97	103	60-120	5	30

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	100	60-120	8	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	87	100	60-120	14	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	78	80	60-120	3	30
Batch number: 110840032A	Sample number(s): 6237974									
Ethanol	200 U		200.	1,000	ug/l	92		66-132		
Isopropanol	200 U		200.	1,000	ug/l	96		75-125		
Methanol	200 U		200.	1,000	ug/l	96		71-140		
Batch number: 110890006A	Sample number(s): 6237974									
Diethylene glycol	10	U	10.	100	mg/l	110		78-126		
Ethylene glycol	10	U	10.	100	mg/l	100		80-124		
Propylene glycol	10	U	10.	100	mg/l	105		80-120		
Batch number: 110870021A	Sample number(s): 6237974									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	83	86	75-125	4	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	96	99	75-125	3	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	79	82	75-125	4	20
Batch number: 110831026001A	Sample number(s): 6237967-6237973									
Antimony	0.0600	U	0.0600	0.200	mg/kg	101		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	107		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	104		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	113		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	118		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	115		82-118		
Copper	0.0944	J	0.0660	0.400	mg/kg	112		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	110		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	115		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	124		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	117		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	104		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	106		78-122		
Batch number: 110831026001B	Sample number(s): 6237967-6237973									
Selenium	0.0400	U	0.0400	0.400	mg/kg	113		79-122		
Batch number: 110831026001C	Sample number(s): 6237967-6237973									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	112		78-122		
Batch number: 110831026001D	Sample number(s): 6237967-6237973									
Barium	0.108	U	0.108	0.400	mg/kg	112		79-121		
Batch number: 110835708003	Sample number(s): 6237967-6237973									
Aluminum	5.03	U	5.03	20.0	mg/kg	92		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	97		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	102		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	94		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		81-119		
Phosphorus	1.10	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3	U	37.3	100	mg/kg	102		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	104		79-121		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Tin	1.50	J	1.00	10.0	mg/kg	103		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	93		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	104		80-120		
Batch number: 110835711003	Sample number(s): 6237967-6237973									
Mercury	0.0027	U	0.0027	0.0942	mg/kg	98		88-123		
Batch number: 11083196603B	Sample number(s): 6237974									
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	93	92	90-110	2	20
Batch number: 11083495201A	Sample number(s): 6237967-6237969									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11083495201B	Sample number(s): 6237970-6237973									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11087495201A	Sample number(s): 6237967-6237969									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11087495201B	Sample number(s): 6237970-6237973									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11089243201A	Sample number(s): 6237967-6237973									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	90		80-120		
Batch number: 11095117101B	Sample number(s): 6237974									
17b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	109	103	90-110	5	20
Batch number: 11087039401A	Sample number(s): 6237967-6237973									
18a pH by 9045C						100		95-105		
Batch number: 11087182101A	Sample number(s): 6237967-6237973									
32a OR Potential						100		98-102		
Batch number: 11090162401A	Sample number(s): 6237967-6237973									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110861AA	Sample number(s): 6237967-6237968,6237970,6237972-6237973 UNSPK: P239176								
Acetone	211*	197	15-210	10	30				
Benzene	112	118	55-143	2	30				
Bromobenzene	109	116	43-139	3	30				
Bromochloromethane	135	128	60-137	10	30				
Bromodichloromethane	100	106	53-136	2	30				
Bromoform	83	85	38-124	1	30				
Bromomethane	101	100	42-168	4	30				
2-Butanone	151	144	37-163	8	30				
n-Butylbenzene	123	125	30-146	2	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
sec-Butylbenzene	129	133	33-157	0	30				
tert-Butylbenzene	117	122	41-152	0	30				
Carbon Tetrachloride	98	107	45-153	5	30				
Chlorobenzene	106	111	49-135	1	30				
Chloroethane	103	103	39-152	3	30				
2-Chloroethyl Vinyl Ether	98	96	32-139	5	30				
Chloroform	110	115	61-142	1	30				
Chloromethane	93	92	51-163	4	30				
2-Chlorotoluene	115	122	42-146	2	30				
4-Chlorotoluene	111	118	39-145	3	30				
Chlorotrifluoroethene	118	113	70-130	10	30				
1,2-Dibromo-3-chloropropane	92	89	30-139	7	30				
Dibromochloromethane	92	96	51-128	2	30				
1,2-Dibromoethane	101	103	54-129	2	30				
Dibromomethane	104	107	57-130	1	30				
1,2-Dichlorobenzene	103	107	36-133	1	30				
1,3-Dichlorobenzene	107	112	34-134	2	30				
1,4-Dichlorobenzene	106	110	35-136	0	30				
Dichlorodifluoromethane	78	77	26-151	5	30				
1,1-Dichloroethane	111	117	63-142	2	30				
1,2-Dichloroethane	104	108	68-131	0	30				
1,1-Dichloroethene	118	126	61-149	2	30				
cis-1,2-Dichloroethene	111	116	60-136	0	30				
trans-1,2-Dichloroethene	113	117	59-142	0	30				
1,2-Dichloropropane	110	117	62-135	2	30				
1,3-Dichloropropane	105	108	58-129	1	30				
2,2-Dichloropropane	102	109	53-147	3	30				
1,1-Dichloropropene	114	119	54-145	1	30				
cis-1,3-Dichloropropene	97	105	51-131	4	30				
trans-1,3-Dichloropropene	94	98	49-129	0	30				
Ethylbenzene	111	115	44-141	0	30				
Freon 113	128	136	56-156	3	30				
Freon 133a	133*	126	61-131	12	30				
Hexachlorobutadiene	106	104	10-155	5	30				
2-Hexanone	143	138	32-160	7	30				
Isopropylbenzene	110	114	38-144	0	30				
p-Isopropyltoluene	124	127	29-152	1	30				
Methyl Tertiary Butyl Ether	98	100	55-129	2	30				
4-Methyl-2-pentanone	106	101	46-139	9	30				
Methylene Chloride	105	142*	61-141	23	30				
n-Propylbenzene	129	132	39-157	1	30				
Styrene	101	105	35-134	0	30				
1,1,1,2-Tetrachloroethane	97	102	52-130	2	30				
1,1,2,2-Tetrachloroethane	110	111	40-152	3	30				
Tetrachloroethene	108	114	42-149	2	30				
Toluene	109	115	50-146	2	30				
1,2,3-Trichlorobenzene	86	84	10-140	6	30				
1,2,4-Trichlorobenzene	90	90	10-136	4	30				
1,1,1-Trichloroethane	92	98	64-142	3	30				
1,1,2-Trichloroethane	104	107	54-139	1	30				
Trichloroethene	109	114	53-144	1	30				
Trichlorofluoromethane	111	111	47-163	4	30				
1,2,3-Trichloropropane	110	109	45-154	4	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trimethylbenzene	118	123	37-149	1	30				
1,3,5-Trimethylbenzene	118	124	38-150	2	30				
Vinyl Chloride	97	96	50-154	4	30				
m+p-Xylene	107	111	44-137	1	30				
o-Xylene	104	108	42-137	0	30				
Batch number: 11087SLC026	Sample number(s): 6237967-6237973 UNSPK: P234506								
Aniline	62	60	35-95	4	30				
Benzidine	23*	20*	35-141	14	30				
Benzoic acid	52	48	10-173	8	30				
Benzyl alcohol	81	79	67-115	3	30				
4-Bromophenyl-phenylether	94	88	67-129	7	30				
Carbazole	86	85	64-120	2	30				
4-Chloro-3-methylphenol	76	75*	76-110	1	30				
4-Chloroaniline	59	57	23-95	3	30				
bis(2-Chloroethoxy)methane	77	73*	75-104	4	30				
bis(2-Chloroethyl)ether	75	75	60-116	0	30				
bis(2-Chloroisopropyl)ether	63	60	55-142	5	30				
2-Chloronaphthalene	72	67	50-141	7	30				
2-Chlorophenol	90	85	73-121	6	30				
4-Chlorophenyl-phenylether	88	84	80-109	4	30				
Dibenzofuran	90	84	71-112	6	30				
1,2-Dichlorobenzene	82	78	66-108	5	30				
1,3-Dichlorobenzene	79	78	63-109	1	30				
1,4-Dichlorobenzene	81	79	70-100	2	30				
3,3'-Dichlorobenzidine	57	55	16-119	3	30				
2,4-Dichlorophenol	91	88	78-117	4	30				
2,4-Dimethylphenol	80	76*	78-110	5	30				
3,5-Dimethylphenol	83	81	70-130	2	30				
4,6-Dinitro-2-methylphenol	79	80	24-116	0	30				
2,4-Dinitrophenol	57	60	20-143	4	30				
2,4-Dinitrotoluene	83	81	73-113	3	30				
2,6-Dinitrotoluene	85	81	69-123	4	30				
1,2-Diphenylhydrazine	76	72	71-129	6	30				
Hexachlorobenzene	94	88	77-114	6	30				
Hexachlorobutadiene	83	79	62-120	4	30				
Hexachlorocyclopentadiene	75	71	10-153	5	30				
Hexachloroethane	71	71	57-109	0	30				
Isophorone	71*	69*	73-102	2	30				
2-Methylphenol	84	80	75-111	5	30				
4-Methylphenol	87	84	71-111	4	30				
2-Nitroaniline	85	81	67-125	4	30				
3-Nitroaniline	82	78	59-122	5	30				
4-Nitroaniline	60	59	52-112	2	30				
Nitrobenzene	67*	64*	72-106	6	30				
2-Nitrophenol	88	84	74-115	4	30				
4-Nitrophenol	57	62	54-113	9	30				
N-Nitroso-di-n-propylamine	65	63	60-116	4	30				
N-Nitrosodiphenylamine	95	91	86-145	5	30				
Pentachlorophenol	74	68	28-127	7	30				
Phenol	78	75	58-126	5	30				
1,2,4-Trichlorobenzene	87	85	72-115	3	30				
2,4,5-Trichlorophenol	87	85	78-109	3	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,6-Trichlorophenol	88	85	77-115	3	30				
Batch number: 11089SLD026	Sample number(s): 6237967-6237973 UNSPK: P239176								
Acenaphthene	92	82	63-105	11	30				
Acenaphthylene	98	88	67-114	11	30				
Anthracene	95	90	60-122	5	30				
Benzo(a)anthracene	109	94	59-128	14	30				
Benzo(a)pyrene	104	93	45-138	11	30				
Benzo(b)fluoranthene	114	95	43-155	18	30				
Benzo(g,h,i)perylene	104	93	33-141	12	30				
Benzo(k)fluoranthene	100	90	42-144	11	30				
Butylbenzylphthalate	109	120	57-173	10	30				
Di-n-butylphthalate	113	107	65-148	6	30				
Chrysene	84	78	48-134	8	30				
Dibenz(a,h)anthracene	108	96	22-133	12	30				
Diethylphthalate	119	106	70-136	12	30				
Dimethylphthalate	110	100	74-118	10	30				
Bis(2-Ethylhexyl)phthalate	116	144	39-167	21	30				
Fluoranthene	102	95	26-166	8	30				
Fluorene	103	91	66-122	12	30				
Indeno(1,2,3-cd)pyrene	108	96	21-143	11	30				
1-Methylnaphthalene	89	81	72-123	9	30				
2-Methylnaphthalene	105*	99	64-103	5	30				
Naphthalene	95	86	61-102	10	30				
N-Nitrosodimethylamine	85	77	48-113	10	30				
Di-n-octylphthalate	120	116	40-192	3	30				
Phenanthrene	98	88	12-165	11	30				
Pyrene	93	84	15-153	9	30				
Batch number: 110840013A	Sample number(s): 6237974 UNSPK: P238281								
25b Formaldehyde 8315A	88	108	80-120	16	30				
Batch number: 110900028A	Sample number(s): 6237973 UNSPK: P235704								
6a Perchlorate EPA 6850	106	103	80-120	3	20				
Batch number: 110870009A	Sample number(s): 6237967-6237973 UNSPK: P235702								
PCB-1016	85	97	29-146	13	50				
PCB-1260	102	115	39-149	12	50				
Batch number: 110840032A	Sample number(s): 6237974 UNSPK: P238074								
Ethanol	92	96	62-145	4	20				
Isopropanol	96	100	73-131	4	20				
Methanol	92	96	52-159	4	20				
Batch number: 110890006A	Sample number(s): 6237974 UNSPK: 6237974								
Diethylene glycol	110	110	83-130	0	20				
Ethylene glycol	98	98	89-125	0	20				
Propylene glycol	95	90*	91-128	5	20				
Batch number: 110831026001A	Sample number(s): 6237967-6237973 UNSPK: 6237967 BKG: 6237967								
Antimony	40*	42*	75-125	4	20	0.145 J	0.109 J	28* (1)	20
Arsenic	77	69*	75-125	2	20	5.62	5.70	1	20
Beryllium	77	86	75-125	5	20	0.865	0.741	15	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238730
Reported: 04/11/11 at 01:34 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Cadmium	105	104	75-125	0	20	0.0484 J	0.0396 U	200* (1)	20
Chromium	98	106	75-125	3	20	19.1	18.8	1	20
Cobalt	93	94	75-125	1	20	6.02	4.66	25*	20
Copper	93	99	75-125	3	20	7.80	7.37	6	20
Lead	43*	50*	75-125	2	20	7.83	6.09	25*	20
Nickel	94	104	75-125	5	20	10.4	9.58	8	20
Silver	107	116	75-125	8	20	0.0694 J	0.0585 J	17 (1)	20
Thallium	87	106	75-125	12	20	0.228	0.199	13 (1)	20
Vanadium	77	100	75-125	5	20	39.9	37.4	6	20
Zinc	73*	83	75-125	3	20	32.8	31.4	4	20
Batch number: 110831026001B	Sample number(s): 6237967-6237973 UNSPK: 6237967 BKG: 6237967								
Selenium	93	93	75-125	0	20	0.0821 J	0.0691 J	17 (1)	20
Batch number: 110831026001C	Sample number(s): 6237967-6237973 UNSPK: 6237967 BKG: 6237967								
Molybdenum	78	81	75-125	4	20	0.447	0.342	26* (1)	20
Batch number: 110831026001D	Sample number(s): 6237967-6237973 UNSPK: 6237967 BKG: 6237967								
Barium	88 (2)	109 (2)	75-125	2	20	79.7	78.3	2	20
Batch number: 110835708003	Sample number(s): 6237967-6237973 UNSPK: 6237967 BKG: 6237967								
Aluminum	2696 (2)	2782 (2)	75-125	0	20	16,800	18,200	8	20
Boron	97	96	84-115	5	20	1.81 J	1.91 J	5 (1)	20
Calcium	149 (2)	129 (2)	75-125	4	20	2,000	2,070	3	20
Iron	2352 (2)	691 (2)	75-125	8	20	20,000	22,000	10	20
Lithium	105	103	82-114	3	20	22.0	23.4	6	20
Magnesium	279 (2)	188 (2)	75-125	5	20	3,620	3,760	4	20
Manganese	187*	100	75-125	21*	20	138	203	38*	20
Phosphorus	116	104	75-125	7	20	122	155	24*	20
Potassium	125	118	75-125	5	20	926	991	7	20
Sodium	97	97	75-125	3	20	103	106	2 (1)	20
Strontium	100	98	75-115	4	20	16.9	17.7	4	20
Tin	87	86	80-110	4	20	3.30 J	2.68 J	21* (1)	20
Titanium	269 (2)	232 (2)	75-125	4	20	926	959	4	20
Zirconium	97	97	75-125	3	20	0.981 J	1.53 J	44* (1)	20
Batch number: 110835711003	Sample number(s): 6237967-6237973 UNSPK: 6237967 BKG: 6237967								
Mercury	90	91	65-135	2	20	0.0031 J	0.0039 J	22* (1)	20
Batch number: 11083495201A	Sample number(s): 6237967-6237969 UNSPK: P235702 BKG: P235702								
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11083495201B	Sample number(s): 6237970-6237973 UNSPK: 6237970 BKG: 6237970								
7a Perchlorate EPA 314.0	0*		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11087495201A	Sample number(s): 6237967-6237969 UNSPK: P235702 BKG: P235702								
11a Anions by 300.0 - Fluoride	44*		80-120			1.9	0.97 J	64* (1)	20
Batch number: 11087495201B	Sample number(s): 6237970-6237973 UNSPK: 6237970 BKG: 6237970								
11a Anions by 300.0 - Fluoride	27*		80-120			1.4	0.80 U	200* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238730
Reported: 04/11/11 at 01:34 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11089243201A	Sample number(s): 6237967-6237973				UNSPK: P236854		BKG: P236854		
3a Cr VI by EPA 7199	88		75-125			0.34 J	0.69 J	67* (1)	20
Batch number: 11087039401A	Sample number(s): 6237967-6237973				BKG: P239176				
18a pH by 9045C						8.28	8.27	0	1
Batch number: 11087182101A	Sample number(s): 6237967-6237973				BKG: P239176				
32a OR Potential						480	475	1	6
Batch number: 11090162401A	Sample number(s): 6237967-6237973				BKG: 6237969				
Moisture Content by 160.3						15.5	15.6	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110861AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6237967	98	102	99	94
6237968	97	97	100	93
6237970	97	99	98	93
6237972	98	99	98	94
6237973	97	97	99	93
Blank	99	101	98	96
LCS	99	103	101	99
MS	99	100	103	96
MSD	96	95	102	95
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110831AA

	Toluene-d8
6237975	102
Blank	101
LCS	97
LCSD	102
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110832AA

	Toluene-d8
6237967	94
6237968	100

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238730
Reported: 04/11/11 at 01:34 PM

Surrogate Quality Control

6237970	93
6237972	95
6237973	94
Blank	96
LCS	95
LCSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110883AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6237975	106	102	99	93
Blank	106	100	98	93
LCS	107	105	99	99
LCSD	106	105	99	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11087SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6237967	75	79	82	62	81	85
6237968	77	84	84	66	85	87
6237969	72	76	79	59	75	81
6237970	74	77	77	61	80	82
6237971	74	77	79	61	79	84
6237972	80	84	85	64	86	91
6237973	75	80	79	63	83	83
Blank	76	84	85	68	89	86
LCS	76	82	85	68	89	86
MS	79	84	85	65	88	86
MSD	77	82	84	64	84	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15b NDMA by 1625C
Batch number: 11088WAC026

	N-Nitrosodimethylamine-d6
6237974	122
Blank	108
LCS	102
LCSD	105
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11089SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6237967	100	89	98
6237968	46	58	51
6237969	92	87	91

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238730
Reported: 04/11/11 at 01:34 PM

Surrogate Quality Control

6237970	102	93	94
6237971	110	101	109
6237972	78	73	107
6237973	77	71	80
Blank	111	104	112
LCS	110	104	113
MS	102	93	99
MSD	91	83	91
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11094A20A

	Trifluorotoluene-F
6237974	75
Blank	75
LCS	112
LCSD	115
Limits:	63-135

Analysis Name: 16b Energetics by 8330A
Batch number: 110830004A

	2-Nitro-m-xylene
6237974	92
Blank	91
LCS	96
LCSD	95
Limits:	50-134

Analysis Name: 25b Formaldehyde 8315A
Batch number: 110840013A

	Butyraldehyde
6237974	126
Blank	133
LCS	127
MS	109
MSD	119
Limits:	45-145

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110870009A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6237967	77	99
6237968	87	104
6237969	97	106
6237970	0*	39*
6237971	0*	27*
6237972	93	102
6237973	99	118
Blank	86	101

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238730
Reported: 04/11/11 at 01:34 PM

Surrogate Quality Control

LCS	84	105
LCSD	85	105
MS	74	97
MSD	88	107
Limits:	53-139	45-120

Analysis Name: 19b Alcohols by 8015B
Batch number: 110840032A

	Acetone
6237974	98
Blank	99
LCS	96
MS	99
MSD	97
Limits:	54-147

Analysis Name: 20b Terphenyls by 8015B
Batch number: 110870021A

	n-Triacontane-d62
6237974	73
Blank	79
LCS	76
LCSD	77
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 110870025A

	Chlorobenzene	Orthoterphenyl
6237974	76	94
Blank	78	87
LCS	79	95
LCSD	82	102
Limits:	28-152	52-131

Analysis Name: 21b Glycols by 8015B
Batch number: 110890006A

	Tetramethylene glycol
6237974	87
Blank	103
LCS	114
MS	111
MSD	101
Limits:	77-119

*- Outside of specification
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acct# 13013 Gp# 1238730 Sample# 6237967-75

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-239-SA5A-SB-4.0-5.0	03.23.11	0934	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-239-SA5A-SB-4.5	03.23.11	0930	SOIL	NONE	4-Encores										X	X											
SL-240-SA5A-SB-4.0-5.0	03.23.11	1055	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-240-SA5A-SB-4.5	03.23.11	1051	SOIL	NONE	4-Encores										X	X											
SL-240-SA5A-SB-9.0-10.0	03.23.11	1103	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-197-SA5A-SB-4.0-5.0	03.23.11	1214	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-197-SA5A-SB-4.5	03.23.11	1210	SOIL	NONE	4-Encores										X	X											
SL-197-SA5A-SB-8.0-9.0	03.23.11	1223	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-198-SA5A-SB-3.0-4.0	03.23.11	1424	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-198-SA5A-SB-3.5	03.23.11	1420	SOIL	NONE	4-Encores										X	X											
SL-200-SA5A-SB-4.0-5.0	03.23.11	1549	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-200-SA5A-SB-4.5	03.23.11	1543	SOIL	NONE	4-Encores										X	X											
EB09-SA5A-032311	03.23.11	1430	WATER	NONE	5-1L amber bottles													X			X	X		X			1 extra liter for backup
EB09-SA5A-032311	03.23.11	1430	WATER	HCl	5-40mL VOA vials												X									X	
EB09-SA5A-032311	03.23.11	1430	WATER	NONE	4-40mL VOA vials														X						X		
EB09-SA5A-032311	03.23.11	1430	WATER	NONE	1-250mL glass															X							
EB09-SA5A-032311	03.23.11	1430	WATER	NaOH	1-500mL poly																		X				
TB-032311	03.23.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X											TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/23/2011 / 17:00 — Received for Laboratory by: (*Signature*) 3/24/11 945

Received by: (*Signature*) — Date/Time — Airbill No.(s) 8695 1432 3747, ...3758

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 23, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/12/2011
Group Number: 1241638
SDG: DE123
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-13-SA5A-QC-041111 Soil	6255759
SL-186-SA5A-SB-3.5-4.5 Soil	6255760
SL-187-SA5A-SB-4.0-5.0 Soil	6255761
SL-187-SA5A-SB-4.0-5.0MS Soil	6255762
SL-187-SA5A-SB-4.0-5.0MSD Soil	6255763
SL-187-SA5A-SB-4.0-5.0DUP Soil	6255764
SL-188-SA5A-SB-4.5-5.5 Soil	6255765
SL-189-SA5A-SB-5.0-6.0 Soil	6255766
SL-189-SA5A-SB-8.5-9.5 Soil	6255767
TB-041111 Water	6255768

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-13-SA5A-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5A-QC-041111

LLI Sample # SW 6255759
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:51

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE123-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	14		6.7	8.1		0.85
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	2.3	J	1.2	8.1		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.85	J	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.15	J	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.85
06192	Isopropylbenzene	98-82-8	0.27	J	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.85
06192	Methylene Chloride	75-09-2	0.76	J	0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.26	J	0.07	4.0		0.85

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Sample Description: **DUP-13-SA5A-QC-041111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5A-QC-041111

LLI Sample # SW 6255759
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:51

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE123-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.05
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.7	U	19.7	39.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(g,h,i)perylene	191-24-2	26	J	20	200		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1

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Sample Description: **DUP-13-SA5A-QC-041111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5A-QC-041111

LLI Sample # SW 6255759
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:51

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE123-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.95	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	2.5		0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	10	J	7.1	21		1
10138	Chrysene	218-01-9	3.2		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	8.3	J	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	7.1	21		1
10138	Fluoranthene	206-44-0	7.6		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.3		0.79	2.0		1

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Sample Description: **DUP-13-SA5A-QC-041111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5A-QC-041111

LLI Sample # SW 6255759
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:51

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE123-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	9.0		0.79	2.0		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.4	J	0.2	1.0		21.26
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
DUP-13-SA5A-QC-041111

LLI Sample # SW 6255759
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DUP13 SDG#: DE123-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	7,300		710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.50	J	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.68	J	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.96	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1

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Sample Description: **DUP-13-SA5A-QC-041111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5A-QC-041111

LLI Sample # SW 6255759
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:51

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE123-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,800		5.83	23.2		1
07914	Boron	7440-42-8	1.03	U	1.03	5.79		1
01650	Calcium	7440-70-2	5,470		7.10	23.2		1
01654	Iron	7439-89-6	21,400		5.46	23.2		1
01656	Lithium	7439-93-2	15.0		0.25	2.3		1
01657	Magnesium	7439-95-4	4,160		2.94	11.6		1
06958	Manganese	7439-96-5	243		0.0904	0.579		1
10145	Phosphorus	7723-14-0	858		0.649	11.6		1
01662	Potassium	7440-09-7	2,490		20.9	57.9		1
01667	Sodium	7440-23-5	286		43.2	116		1
07968	Strontium	7440-24-6	27.3		0.0718	0.579		1
06969	Tin	7440-31-5	2.32	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,020		0.440	1.16		1
10146	Zirconium	7440-67-7	1.79	J	0.973	5.79		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.137	J	0.0689	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.04		0.0918	0.459		2
06126	Barium	7440-39-3	101		0.124	0.459		2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.							
06127	Beryllium	7440-41-7	0.302		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.0601	J	0.0459	0.115		2
06131	Chromium	7440-47-3	9.86		0.138	0.459		2
06132	Cobalt	7440-48-4	6.39		0.0230	0.115		2
06133	Copper	7440-50-8	14.4		0.0757	0.459		2
06135	Lead	7439-92-1	3.24		0.0119	0.230		2
06138	Molybdenum	7439-98-7	0.391		0.0574	0.115		2
06139	Nickel	7440-02-0	6.20		0.115	0.459		2
06141	Selenium	7782-49-2	0.0459	U	0.0459	0.459		2
06142	Silver	7440-22-4	0.292		0.0138	0.115		2
06145	Thallium	7440-28-0	0.105	J	0.0344	0.115		2
06148	Vanadium	7440-62-2	47.6		0.0252	0.115		2
06149	Zinc	7440-66-6	34.3		0.643	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.5		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-13-SA5A-QC-041111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5A-QC-041111

LLI Sample # SW 6255759
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:51

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE123-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	373		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from DUP-13-SA5A-QC-041111.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011	16:14	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011	11:06	Jason M Long	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011	21:21	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110224083	04/12/2011	22:03	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110224083	04/12/2011	22:03	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110224083	04/12/2011	21:19	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011	15:36	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011	17:49	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/15/2011	01:17	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011	14:00	Olivia I Santiago	1

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Sample Description: DUP-13-SA5A-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5A-QC-041111

LLI Sample # SW 6255759
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:51

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE123-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11101A34B	04/15/2011 12:03	Elizabeth J Marin	21.26
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:18	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/03/2011 23:22	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/27/2011 23:41	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111040008A	04/15/2011 16:07	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111040008A	04/14/2011 16:05	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/22/2011 18:23	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 19:25	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111030027A	04/14/2011 17:41	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 04:56	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111030027A	04/13/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 08:49	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 08:49	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 08:49	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 17:57	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 08:49	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 08:49	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 08:49	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 08:49	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 08:49	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 08:49	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 08:49	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 08:49	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 08:49	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 08:49	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 10:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 10:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 10:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 10:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 10:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 10:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 10:06	Choon Y Tian	2

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Sample Description: **DUP-13-SA5A-QC-041111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5A-QC-041111

LLI Sample # SW 6255759
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:51

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE123-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 10:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 10:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 10:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 10:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 10:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 10:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 10:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 10:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 10:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11110495201A	04/21/2011 13:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11110495201A	04/21/2011 13:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201A	04/26/2011 14:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11111243201A	04/28/2011 05:43	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201A	04/21/2011 18:15	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11110495201A	04/20/2011 23:50	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201A	04/22/2011 13:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201A	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	2	11109182101A	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402A	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11111243201A	04/21/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-186-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SB-3.5-4.5

LLI Sample # SW 6255760
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:01

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL186 SDG#: DE123-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	16		6.6	7.9		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.85
06192	2-Butanone	78-93-3	4.0	J	1.2	7.9		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.85
06192	Methylene Chloride	75-09-2	1.5	J	0.24	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

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Sample Description: SL-186-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SB-3.5-4.5

LLI Sample # SW 6255760
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:01

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL186 SDG#: DE123-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.9
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	74.4		19.4	38.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-186-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SB-3.5-4.5

LLI Sample # SW 6255760
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:01

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL186 SDG#: DE123-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	9.7	J	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.6	J	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.6	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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Sample Description: **SL-186-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SB-3.5-4.5

LLI Sample # SW 6255760
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:01

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL186 SDG#: DE123-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.15
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SB-3.5-4.5

LLI Sample # SW 6255760
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SL186 SDG#: DE123-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	11,000		690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.1	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	200	J	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1

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Sample Description: **SL-186-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SB-3.5-4.5

LLI Sample # SW 6255760
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:01

Submitted: 04/12/2011 10:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL186 SDG#: DE123-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		5.80	23.1		1
07914	Boron	7440-42-8	2.15	J	1.03	5.76		1
01650	Calcium	7440-70-2	2,700		7.07	23.1		1
01654	Iron	7439-89-6	19,400		5.43	23.1		1
01656	Lithium	7439-93-2	17.8		0.25	2.3		1
01657	Magnesium	7439-95-4	3,840		2.93	11.5		1
06958	Manganese	7439-96-5	297		0.0899	0.576		1
10145	Phosphorus	7723-14-0	372		0.645	11.5		1
01662	Potassium	7440-09-7	3,770		20.7	57.6		1
01667	Sodium	7440-23-5	119		43.0	115		1
07968	Strontium	7440-24-6	19.5		0.0715	0.576		1
06969	Tin	7440-31-5	2.97	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,120		0.438	1.15		1
10146	Zirconium	7440-67-7	2.15	J	0.968	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.159	J	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.70		0.0895	0.448		2
06126	Barium	7440-39-3	146		0.121	0.448		2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.							
06127	Beryllium	7440-41-7	0.663		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.329		0.0448	0.112		2
06131	Chromium	7440-47-3	17.7		0.134	0.448		2
06132	Cobalt	7440-48-4	7.79		0.0224	0.112		2
06133	Copper	7440-50-8	13.3		0.0739	0.448		2
06135	Lead	7439-92-1	6.07		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.639		0.0560	0.112		2
06139	Nickel	7440-02-0	13.3		0.112	0.448		2
06141	Selenium	7782-49-2	0.143	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0358	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.359		0.0336	0.112		2
06148	Vanadium	7440-62-2	33.8		0.0246	0.112		2
06149	Zinc	7440-66-6	69.0		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1

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Sample Description: **SL-186-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SB-3.5-4.5

LLI Sample # SW 6255760
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:01

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL186 SDG#: DE123-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	145		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.52		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-186-SA5A-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 16:36	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 11:26	Jason M Long	20.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:28	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110224083	04/12/2011 22:03	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110224083	04/12/2011 22:03	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110224083	04/12/2011 21:25	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 15:52	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 18:13	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/15/2011 01:49	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-186-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SB-3.5-4.5

LLI Sample # SW 6255760
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:01

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL186 SDG#: DE123-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11101A34B	04/15/2011 12:39	Elizabeth J Marin	21.15
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:25	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 00:04	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/27/2011 23:51	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111040008A	04/15/2011 16:25	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111040008A	04/14/2011 16:05	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/22/2011 18:48	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 19:40	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111030027A	04/14/2011 17:59	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 05:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111030027A	04/13/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 08:53	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 08:53	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 08:53	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 18:01	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 08:53	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 08:53	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 08:53	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 08:53	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 08:53	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 08:53	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 08:53	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 08:53	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 08:53	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 08:53	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 10:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 10:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 10:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 10:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 10:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 10:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 10:09	Choon Y Tian	2

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Sample Description: SL-186-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SB-3.5-4.5

LLI Sample # SW 6255760
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:01

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL186 SDG#: DE123-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 10:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 10:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 10:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 10:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 10:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 10:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 10:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 10:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 10:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11110495201A	04/21/2011 14:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11110495201A	04/21/2011 14:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201A	04/26/2011 14:22	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11111243201A	04/28/2011 05:55	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201A	04/21/2011 18:16	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11110495201A	04/20/2011 23:50	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201A	04/22/2011 13:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201A	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	2	11109182101A	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402A	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11111243201A	04/21/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-187-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255761
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	13		6.9	8.3		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.88
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.88
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.88
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.88
06192	2-Butanone	78-93-3	1.7	J	1.3	8.3		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.88
06192	sec-Butylbenzene	135-98-8	0.14	J	0.06	4.1		0.88
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.88
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.1		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.88
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.88
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.1		0.88
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.1		0.88
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.1		0.88
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.88
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.88
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.88
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.88
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.88
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.88
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.88
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.88
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.1		0.88
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.88
06192	Methylene Chloride	75-09-2	0.51	J	0.25	4.1		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.88

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-187-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255761
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.88
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.1		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.88
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.88
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.88
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.88
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.88
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		20.49
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	37.5	J	19.7	39.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(g,h,i)perylene	191-24-2	28	J	20	200		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1

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Sample Description: SL-187-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255761
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.42	J	0.39	2.0		1
10138	Anthracene	120-12-7	2.2		0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	4.7		0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	10	J	7.0	21		1
10138	Chrysene	218-01-9	3.5		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	1.5	J	0.78	2.0		1
10138	Diethylphthalate	84-66-2	8.5	J	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	7.0	21		1
10138	Fluoranthene	206-44-0	9.9		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		0.78	2.0		1

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Sample Description: **SL-187-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255761
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	1.3	J	0.78	2.0		1
10138	Pyrene	129-00-0	11		0.78	2.0		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	J	0.2	0.9		20.03
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255761
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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	15,000		1,400	3,500		2
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.62	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.51	J	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	1.6		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	150	J	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1

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Sample Description: **SL-187-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255761
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.77	22.9		1
07914	Boron	7440-42-8	2.73	J	1.02	5.73		1
01650	Calcium	7440-70-2	2,250		7.03	22.9		1
01654	Iron	7439-89-6	21,100		5.40	22.9		1
01656	Lithium	7439-93-2	20.4		0.25	2.3		1
01657	Magnesium	7439-95-4	4,040		2.91	11.5		1
06958	Manganese	7439-96-5	265		0.0894	0.573		1
10145	Phosphorus	7723-14-0	341		0.642	11.5		1
01662	Potassium	7440-09-7	3,450		20.6	57.3		1
01667	Sodium	7440-23-5	133		42.8	115		1
07968	Strontium	7440-24-6	22.1		0.0711	0.573		1
06969	Tin	7440-31-5	2.99	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,190		0.436	1.15		1
10146	Zirconium	7440-67-7	4.83	J	0.963	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0988	J	0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.06		0.0926	0.463		2
06126	Barium	7440-39-3	114		0.125	0.463		2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.							
06127	Beryllium	7440-41-7	0.506		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.167		0.0463	0.116		2
06131	Chromium	7440-47-3	14.9		0.139	0.463		2
06132	Cobalt	7440-48-4	5.37		0.0231	0.116		2
06133	Copper	7440-50-8	10.3		0.0764	0.463		2
06135	Lead	7439-92-1	4.95		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.420		0.0579	0.116		2
06139	Nickel	7440-02-0	10.3		0.116	0.463		2
06141	Selenium	7782-49-2	0.123	J	0.0463	0.463		2
06142	Silver	7440-22-4	0.0283	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.254		0.0347	0.116		2
06148	Vanadium	7440-62-2	26.9		0.0255	0.116		2
06149	Zinc	7440-66-6	54.2		0.648	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1

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Sample Description: **SL-187-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255761
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL187 SDG#: DE123-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	143		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.13		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-187-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 16:59	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 11:46	Jason M Long	20.49
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:32	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110224083	04/12/2011 22:03	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110224083	04/12/2011 22:03	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110224083	04/12/2011 21:30	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 16:09	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 18:38	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/14/2011 18:55	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11101A34B	04/15/2011 13:15	Elizabeth J Marin	20.03
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:30	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 00:47	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 21:34	Michele D Hamilton	2
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111040008A	04/15/2011 16:44	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111040008A	04/14/2011 16:05	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/22/2011 19:13	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 19:55	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111030027A	04/14/2011 18:16	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 07:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111030027A	04/13/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 07:35	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 07:35	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 07:35	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 16:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 07:35	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 07:35	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 07:35	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 07:35	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 07:35	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 07:35	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 07:35	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 07:35	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 07:35	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 07:35	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 09:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 09:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:15	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-187-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255761
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 09:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11110495201B	04/21/2011 15:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11110495201B	04/21/2011 15:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201A	04/26/2011 12:52	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11111243201A	04/28/2011 06:08	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201A	04/21/2011 18:17	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11110495201B	04/20/2011 23:50	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201A	04/22/2011 13:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201A	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	2	11109182101A	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402A	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11111243201A	04/21/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-187-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255762
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	140	7.2	8.7		0.92
06192	Benzene	71-43-2	24	0.11	4.3		0.92
06192	Bromobenzene	108-86-1	23	0.14	4.3		0.92
06192	Bromochloromethane	74-97-5	26	0.36	4.3		0.92
06192	Bromodichloromethane	75-27-4	21	0.09	4.3		0.92
06192	Bromoform	75-25-2	19	0.43	4.3		0.92
06192	Bromomethane	74-83-9	17	0.27	4.3		0.92
06192	2-Butanone	78-93-3	130	1.3	8.7		0.92
06192	n-Butylbenzene	104-51-8	24	0.13	4.3		0.92
06192	sec-Butylbenzene	135-98-8	26	0.06	4.3		0.92
06192	tert-Butylbenzene	98-06-6	24	0.17	4.3		0.92
06192	Carbon Tetrachloride	56-23-5	22	0.15	4.3		0.92
06192	Chlorobenzene	108-90-7	23	0.12	4.3		0.92
06192	Chloroethane	75-00-3	18	0.14	4.3		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	16	0.32	4.3		0.92
06192	Chloroform	67-66-3	23	0.13	4.3		0.92
06192	Chloromethane	74-87-3	21	0.36	4.3		0.92
06192	2-Chlorotoluene	95-49-8	24	0.15	4.3		0.92
06192	4-Chlorotoluene	106-43-4	23	0.15	4.3		0.92
06192	Chlorotrifluoroethene	79-38-9	19	0.52	5.2		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.76	4.3		0.92
06192	Dibromochloromethane	124-48-1	20	0.22	4.3		0.92
06192	1,2-Dibromoethane	106-93-4	21	0.18	4.3		0.92
06192	Dibromomethane	74-95-3	20	0.26	4.3		0.92
06192	1,2-Dichlorobenzene	95-50-1	22	0.1	4.3		0.92
06192	1,3-Dichlorobenzene	541-73-1	23	0.13	4.3		0.92
06192	1,4-Dichlorobenzene	106-46-7	22	0.17	4.3		0.92
06192	Dichlorodifluoromethane	75-71-8	19	0.13	4.3		0.92
06192	1,1-Dichloroethane	75-34-3	23	0.11	4.3		0.92
06192	1,2-Dichloroethane	107-06-2	20	0.16	4.3		0.92
06192	1,1-Dichloroethene	75-35-4	26	0.42	4.3		0.92
06192	cis-1,2-Dichloroethene	156-59-2	23	0.21	4.3		0.92
06192	trans-1,2-Dichloroethene	156-60-5	24	0.13	4.3		0.92
06192	1,2-Dichloropropane	78-87-5	22	0.18	4.3		0.92
06192	1,3-Dichloropropane	142-28-9	21	0.09	4.3		0.92
06192	2,2-Dichloropropane	594-20-7	21	0.18	4.3		0.92
06192	1,1-Dichloropropene	563-58-6	24	0.14	4.3		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.17	4.3		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.18	4.3		0.92
06192	Ethylbenzene	100-41-4	23	0.06	4.3		0.92
06192	Freon 113	76-13-1	27	0.12	4.3		0.92
06192	Freon 133a	75-88-7	24	0.52	5.2		0.88
06192	Hexachlorobutadiene	87-68-3	21	0.15	4.3		0.92
06192	2-Hexanone	591-78-6	91	1.7	8.7		0.92
06192	Isopropylbenzene	98-82-8	24	0.06	4.3		0.92
06192	p-Isopropyltoluene	99-87-6	24	0.12	4.3		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.23	4.3		0.92
06192	4-Methyl-2-pentanone	108-10-1	92	0.42	8.7		0.92
06192	Methylene Chloride	75-09-2	24	0.26	4.3		0.92
06192	n-Propylbenzene	103-65-1	26	0.08	4.3		0.92

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-187-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255762
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	21		0.11	4.3		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	21		0.12	4.3		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	21		0.25	4.3		0.92
06192	Tetrachloroethene	127-18-4	24		0.22	4.3		0.92
06192	Toluene	108-88-3	23		0.09	4.3		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	20		0.15	4.3		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	20		0.19	4.3		0.92
06192	1,1,1-Trichloroethane	71-55-6	23		0.22	4.3		0.92
06192	1,1,2-Trichloroethane	79-00-5	22		0.29	4.3		0.92
06192	Trichloroethene	79-01-6	23		0.16	4.3		0.92
06192	Trichlorofluoromethane	75-69-4	21		0.31	4.3		0.92
06192	1,2,3-Trichloropropane	96-18-4	21		0.36	4.3		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	23		0.43	4.3		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	24		0.11	4.3		0.92
06192	Vinyl Chloride	75-01-4	21		0.22	4.3		0.92
06192	m+p-Xylene	179601-23-1	46		0.18	4.3		0.92
06192	o-Xylene	95-47-6	22		0.18	4.3		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	100		4.7	14		19.84
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	372		19.7	39.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,900		20	200		1
04688	Acenaphthylene	208-96-8	1,900		20	200		1
04688	Aniline	62-53-3	1,200		200	590		1
04688	Anthracene	120-12-7	1,900		20	200		1
04688	Benzidine	92-87-5	1,400	J	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	1,900		20	200		1
04688	Benzo(a)pyrene	50-32-8	1,800		20	200		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		20	200		1
04688	Benzo(k)fluoranthene	207-08-9	1,900		20	200		1
04688	Benzoic acid	65-85-0	1,900		200	590		1
04688	Benzyl alcohol	100-51-6	1,800		200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		20	200		1
04688	Butylbenzylphthalate	85-68-7	2,100		20	200		1
04688	Di-n-butylphthalate	84-74-2	2,000		20	200		1
04688	Carbazole	86-74-8	1,900		20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		39	200		1
04688	4-Chloroaniline	106-47-8	810		78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		20	200		1
04688	2-Chloronaphthalene	91-58-7	1,800		20	200		1
04688	2-Chlorophenol	95-57-8	1,900		20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900		39	200		1

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Sample Description: **SL-187-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255762
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,900	20	200		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900	20	200		1
04688	Dibenzofuran	132-64-9	1,900	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400	120	390		1
04688	2,4-Dichlorophenol	120-83-2	1,900	20	200		1
04688	Diethylphthalate	84-66-2	1,900	20	200		1
04688	2,4-Dimethylphenol	105-67-9	1,800	39	200		1
04688	3,5-Dimethylphenol	108-68-9	1,900	39	200		1
04688	Dimethylphthalate	131-11-3	1,800	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200	200	590		1
04688	2,4-Dinitrophenol	51-28-5	2,200	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,900	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,200	20	390		1
04688	Fluoranthene	206-44-0	1,900	20	200		1
04688	Fluorene	86-73-7	1,900	20	200		1
04688	Hexachlorobenzene	118-74-1	1,800	20	200		1
04688	Hexachlorobutadiene	87-68-3	1,700	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	2,100	200	590		1
04688	Hexachloroethane	67-72-1	1,500	20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	20	200		1
04688	Isophorone	78-59-1	1,800	20	200		1
04688	1-Methylnaphthalene	90-12-0	1,900	20	200		1
04688	2-Methylnaphthalene	91-57-6	1,700	20	200		1
04688	2-Methylphenol	95-48-7	1,900	39	200		1
04688	4-Methylphenol	106-44-5	2,000	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	20	200		1
04688	2-Nitroaniline	88-74-4	1,900	20	200		1
04688	3-Nitroaniline	99-09-2	1,800	39	200		1
04688	4-Nitroaniline	100-01-6	1,400	78	200		1
04688	Nitrobenzene	98-95-3	1,800	20	200		1
04688	2-Nitrophenol	88-75-5	1,800	20	200		1
04688	4-Nitrophenol	100-02-7	1,900	200	590		1
04688	N-Nitrosodimethylamine	62-75-9	1,300	39	200		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	20	200		1
04688	Pentachlorophenol	87-86-5	1,500	200	590		1
04688	Phenanthrene	85-01-8	1,800	20	200		1
04688	Phenol	108-95-2	1,900	20	200		1

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Sample Description: **SL-187-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255762
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	2,000		20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800		20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900		39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	38		0.78	2.0		1
10138	Acenaphthylene	208-96-8	38		0.39	2.0		1
10138	Anthracene	120-12-7	41		0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	42		0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	31		0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	36		0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	56		0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	28		0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	46		7.0	21		1
10138	Di-n-butylphthalate	84-74-2	44		7.0	21		1
10138	Chrysene	218-01-9	40		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	34		0.78	2.0		1
10138	Diethylphthalate	84-66-2	39		7.0	21		1
10138	Dimethylphthalate	131-11-3	38		7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	48		7.0	21		1
10138	Fluoranthene	206-44-0	52		0.78	2.0		1
10138	Fluorene	86-73-7	37		0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	40		0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	36		0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	32		0.78	2.0		1
10138	Naphthalene	91-20-3	35		0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	20		0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	36		7.0	21		1
10138	Phenanthrene	85-01-8	37		0.78	2.0		1
10138	Pyrene	129-00-0	51		0.78	2.0		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	6.1		0.2	1		20.33
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,000		68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,000		45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1

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Sample Description: SL-187-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255762
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	1,500		45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	1,800		45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,000		45	140	10000000	1
10132	HMX	2691-41-0	1,900		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,100		45	140	10000000	1
10132	Nitroglycerin	55-63-0	46,000		910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	2,200		91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	2,200		110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	2,100		91	140	10000000	1
10132	PETN	78-11-5	56,000		910	2,700	10000000	1
10132	RDX	121-82-4	2,400		57	140	10000000	1
10132	Tetryl	479-45-8	1,100		69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	1,100		45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	1,200		45	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	20,000		1,400	3,500		2
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	15		0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	8.9		0.39	2.0		1
10225	PCB-1260	11096-82-5	20		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

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SL-187-SA5A-SB-4.0-5.0

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SL187 SDG#: DE123-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2		0.47	1.4		1
10199	EFH (C15-C20)	n.a.	2.9		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	3.5		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	4.4		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.91	J	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,900		120	590		1
10501	Isopropanol	67-63-0	2,100		120	590		1
10501	Methanol	67-56-1	2,100		120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	220		5.9	15		1
08283	Ethylene glycol	107-21-1	210		5.9	15		1
08283	Propylene glycol	57-55-6	230		5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6		1.5	1.5		1
10318	o-Terphenyl	84-15-1	1.8	J	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.5		1.4	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,900		5.82	23.1		1
07914	Boron	7440-42-8	222		1.03	5.79		1
01650	Calcium	7440-70-2	2,870		7.10	23.1		1
01654	Iron	7439-89-6	21,500		5.45	23.1		1
01656	Lithium	7439-93-2	139		0.25	2.3		1
01657	Magnesium	7439-95-4	4,520		2.94	11.6		1
06958	Manganese	7439-96-5	332		0.0903	0.579		1
10145	Phosphorus	7723-14-0	426		0.648	11.6		1
01662	Potassium	7440-09-7	4,840		20.8	57.9		1
01667	Sodium	7440-23-5	1,270		43.2	116		1
07968	Strontium	7440-24-6	134		0.0718	0.579		1
06969	Tin	7440-31-5	416		1.16	11.6		1
06970	Titanium	7440-32-6	1,500		0.440	1.16		1
10146	Zirconium	7440-67-7	118		0.972	5.79		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.32		0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.92		0.0908	0.454		2
06126	Barium	7440-39-3	149		0.123	0.454		2

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SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255762
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SL187 SDG#: DE123-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.						
06127	Beryllium	7440-41-7	1.57	0.0182	0.114		2
06128	Cadmium	7440-43-9	1.57	0.0454	0.114		2
06131	Chromium	7440-47-3	29.8	0.136	0.454		2
06132	Cobalt	7440-48-4	69.0	0.0227	0.114		2
06133	Copper	7440-50-8	25.4	0.0749	0.454		2
06135	Lead	7439-92-1	10.1	0.0118	0.227		2
06138	Molybdenum	7439-98-7	13.1	0.0568	0.114		2
06139	Nickel	7440-02-0	25.5	0.114	0.454		2
06141	Selenium	7782-49-2	2.57	0.0454	0.454		2
06142	Silver	7440-22-4	12.5	0.0136	0.114		2
06145	Thallium	7440-28-0	0.857	0.0341	0.114		2
06148	Vanadium	7440-62-2	45.0	0.0250	0.114		2
06149	Zinc	7440-66-6	74.7	0.636	3.41		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.176	0.0033	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.4	0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.6	0.94	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	622	10.6	35.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	39.8	1.2	5.9		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	6.1	0.21	0.58		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-187-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255762
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SL187 SDG#: DE123-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 17:21	Chelsea B Eastep	0.92
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 18:06	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 12:05	Jason M Long	19.84
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:39	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110224083	04/12/2011 22:03	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110224083	04/12/2011 22:03	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110224083	04/12/2011 21:37	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 16:26	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 19:02	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/14/2011 19:27	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11101A34B	04/15/2011 13:51	Elizabeth J Marin	20.33
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:36	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 01:29	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 21:43	Michele D Hamilton	2
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111040008A	04/15/2011 17:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111040008A	04/14/2011 16:05	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/22/2011 19:38	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 20:10	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111030027A	04/14/2011 18:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 07:56	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111030027A	04/13/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 07:46	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 07:46	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 07:46	Damary Valentin	1

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SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

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SL187 SDG#: DE123-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 16:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 07:46	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 07:46	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 07:46	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 07:46	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 07:46	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 07:46	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 07:46	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 07:46	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 07:46	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 07:46	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 09:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 09:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 09:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11110495201B	04/21/2011 15:58	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11110495201B	04/21/2011 15:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201A	04/26/2011 13:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11111243201A	04/28/2011 06:27	Venia B McFadden	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201A	04/21/2011 18:19	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11110495201B	04/20/2011 23:50	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201A	04/22/2011 13:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201A	04/21/2011 10:35	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11111243201A	04/21/2011 19:50	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-187-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255763
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	130	7.1	8.5		0.9
06192	Benzene	71-43-2	24	0.11	4.3		0.9
06192	Bromobenzene	108-86-1	24	0.14	4.3		0.9
06192	Bromochloromethane	74-97-5	25	0.35	4.3		0.9
06192	Bromodichloromethane	75-27-4	21	0.09	4.3		0.9
06192	Bromoform	75-25-2	18	0.43	4.3		0.9
06192	Bromomethane	74-83-9	16	0.27	4.3		0.9
06192	2-Butanone	78-93-3	130	1.3	8.5		0.9
06192	n-Butylbenzene	104-51-8	25	0.13	4.3		0.9
06192	sec-Butylbenzene	135-98-8	27	0.06	4.3		0.9
06192	tert-Butylbenzene	98-06-6	25	0.17	4.3		0.9
06192	Carbon Tetrachloride	56-23-5	22	0.15	4.3		0.9
06192	Chlorobenzene	108-90-7	23	0.12	4.3		0.9
06192	Chloroethane	75-00-3	17	0.14	4.3		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	16	0.32	4.3		0.9
06192	Chloroform	67-66-3	23	0.13	4.3		0.9
06192	Chloromethane	74-87-3	21	0.35	4.3		0.9
06192	2-Chlorotoluene	95-49-8	24	0.15	4.3		0.9
06192	4-Chlorotoluene	106-43-4	24	0.15	4.3		0.9
06192	Chlorotrifluoroethene	79-38-9	17	0.48	4.8		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.75	4.3		0.9
06192	Dibromochloromethane	124-48-1	20	0.21	4.3		0.9
06192	1,2-Dibromoethane	106-93-4	21	0.18	4.3		0.9
06192	Dibromomethane	74-95-3	20	0.26	4.3		0.9
06192	1,2-Dichlorobenzene	95-50-1	22	0.1	4.3		0.9
06192	1,3-Dichlorobenzene	541-73-1	23	0.13	4.3		0.9
06192	1,4-Dichlorobenzene	106-46-7	23	0.17	4.3		0.9
06192	Dichlorodifluoromethane	75-71-8	19	0.13	4.3		0.9
06192	1,1-Dichloroethane	75-34-3	23	0.11	4.3		0.9
06192	1,2-Dichloroethane	107-06-2	20	0.16	4.3		0.9
06192	1,1-Dichloroethene	75-35-4	25	0.42	4.3		0.9
06192	cis-1,2-Dichloroethene	156-59-2	24	0.20	4.3		0.9
06192	trans-1,2-Dichloroethene	156-60-5	24	0.13	4.3		0.9
06192	1,2-Dichloropropane	78-87-5	23	0.18	4.3		0.9
06192	1,3-Dichloropropane	142-28-9	21	0.09	4.3		0.9
06192	2,2-Dichloropropane	594-20-7	21	0.18	4.3		0.9
06192	1,1-Dichloropropene	563-58-6	23	0.14	4.3		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.17	4.3		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.18	4.3		0.9
06192	Ethylbenzene	100-41-4	24	0.06	4.3		0.9
06192	Freon 113	76-13-1	26	0.12	4.3		0.9
06192	Freon 133a	75-88-7	22	0.48	4.8		0.82
06192	Hexachlorobutadiene	87-68-3	24	0.15	4.3		0.9
06192	2-Hexanone	591-78-6	90	1.7	8.5		0.9
06192	Isopropylbenzene	98-82-8	24	0.06	4.3		0.9
06192	p-Isopropyltoluene	99-87-6	25	0.12	4.3		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.22	4.3		0.9
06192	4-Methyl-2-pentanone	108-10-1	88	0.42	8.5		0.9
06192	Methylene Chloride	75-09-2	27	0.26	4.3		0.9
06192	n-Propylbenzene	103-65-1	26	0.07	4.3		0.9

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Sample Description: SL-187-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255763
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	22		0.11	4.3		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	21		0.12	4.3		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	21		0.25	4.3		0.9
06192	Tetrachloroethene	127-18-4	24		0.21	4.3		0.9
06192	Toluene	108-88-3	24		0.09	4.3		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	22		0.15	4.3		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	21		0.19	4.3		0.9
06192	1,1,1-Trichloroethane	71-55-6	23		0.21	4.3		0.9
06192	1,1,2-Trichloroethane	79-00-5	21		0.29	4.3		0.9
06192	Trichloroethene	79-01-6	23		0.16	4.3		0.9
06192	Trichlorofluoromethane	75-69-4	21		0.31	4.3		0.9
06192	1,2,3-Trichloropropane	96-18-4	21		0.35	4.3		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	24		0.43	4.3		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	25		0.11	4.3		0.9
06192	Vinyl Chloride	75-01-4	21		0.21	4.3		0.9
06192	m+p-Xylene	179601-23-1	46		0.18	4.3		0.9
06192	o-Xylene	95-47-6	22		0.18	4.3		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	120		4.9	15		20.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	547		19.7	39.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		20	200		1
04688	Acenaphthylene	208-96-8	1,800		20	200		1
04688	Aniline	62-53-3	1,200		200	590		1
04688	Anthracene	120-12-7	1,800		20	200		1
04688	Benzidine	92-87-5	2,100	J	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	1,800		20	200		1
04688	Benzo(a)pyrene	50-32-8	1,800		20	200		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		20	200		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		20	200		1
04688	Benzoic acid	65-85-0	1,500		200	590		1
04688	Benzyl alcohol	100-51-6	1,800		200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		20	200		1
04688	Butylbenzylphthalate	85-68-7	2,100		20	200		1
04688	Di-n-butylphthalate	84-74-2	1,900		20	200		1
04688	Carbazole	86-74-8	1,800		20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		39	200		1
04688	4-Chloroaniline	106-47-8	860		78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		20	200		1
04688	2-Chloronaphthalene	91-58-7	1,700		20	200		1
04688	2-Chlorophenol	95-57-8	1,900		20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		39	200		1

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Sample Description: **SL-187-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255763
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,800	20	200		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800	20	200		1
04688	Dibenzofuran	132-64-9	1,800	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	1,500	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400	120	390		1
04688	2,4-Dichlorophenol	120-83-2	1,900	20	200		1
04688	Diethylphthalate	84-66-2	1,800	20	200		1
04688	2,4-Dimethylphenol	105-67-9	1,800	39	200		1
04688	3,5-Dimethylphenol	108-68-9	1,900	39	200		1
04688	Dimethylphthalate	131-11-3	1,800	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	980	200	590		1
04688	2,4-Dinitrophenol	51-28-5	1,500	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100	20	390		1
04688	Fluoranthene	206-44-0	1,800	20	200		1
04688	Fluorene	86-73-7	1,800	20	200		1
04688	Hexachlorobenzene	118-74-1	1,700	20	200		1
04688	Hexachlorobutadiene	87-68-3	1,500	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	1,700	200	590		1
04688	Hexachloroethane	67-72-1	1,500	20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	20	200		1
04688	Isophorone	78-59-1	1,700	20	200		1
04688	1-Methylnaphthalene	90-12-0	1,800	20	200		1
04688	2-Methylnaphthalene	91-57-6	1,700	20	200		1
04688	2-Methylphenol	95-48-7	1,900	39	200		1
04688	4-Methylphenol	106-44-5	2,000	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	20	200		1
04688	2-Nitroaniline	88-74-4	1,900	20	200		1
04688	3-Nitroaniline	99-09-2	1,700	39	200		1
04688	4-Nitroaniline	100-01-6	1,500	78	200		1
04688	Nitrobenzene	98-95-3	1,700	20	200		1
04688	2-Nitrophenol	88-75-5	1,700	20	200		1
04688	4-Nitrophenol	100-02-7	1,800	200	590		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	39	200		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	20	200		1
04688	Pentachlorophenol	87-86-5	1,400	200	590		1
04688	Phenanthrene	85-01-8	1,800	20	200		1
04688	Phenol	108-95-2	1,800	20	200		1

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Sample Description: **SL-187-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255763
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	1,900		20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	53		0.77	1.9		1
10138	Acenaphthylene	208-96-8	43		0.39	1.9		1
10138	Anthracene	120-12-7	58		0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	39		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	30		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	32		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	31		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	29		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	45		7.0	21		1
10138	Di-n-butylphthalate	84-74-2	44		7.0	21		1
10138	Chrysene	218-01-9	39		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	33		0.77	1.9		1
10138	Diethylphthalate	84-66-2	39		7.0	21		1
10138	Dimethylphthalate	131-11-3	39		7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	48		7.0	21		1
10138	Fluoranthene	206-44-0	53		0.77	1.9		1
10138	Fluorene	86-73-7	46		0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	33		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	52		0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	38		0.77	1.9		1
10138	Naphthalene	91-20-3	44		0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	19		0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	34		7.0	21		1
10138	Phenanthrene	85-01-8	46		0.77	1.9		1
10138	Pyrene	129-00-0	46		0.77	1.9		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.9		0.2	1		20.42
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400		68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1

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Sample Description: SL-187-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255763
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

SL187 SDG#: DE123-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	1,800		45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,100		45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,300		45	140	10000000	1
10132	HMX	2691-41-0	2,400		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,300		45	140	10000000	1
10132	Nitroglycerin	55-63-0	54,000		910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	2,400		91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	2,500		110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	2,400		91	140	10000000	1
10132	PETN	78-11-5	66,000		910	2,700	10000000	1
10132	RDX	121-82-4	2,700		57	140	10000000	1
10132	Tetryl	479-45-8	1,300		69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	1,500		45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	1,700		45	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	21,000		1,400	3,500		2
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	18		0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	9.3		0.39	2.0		1
10225	PCB-1260	11096-82-5	21		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-187-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255763
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	1.1	J	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	2.5		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	3.8		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	4.4		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.80	J	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	1,900		120	590		1
10501	Isopropanol	67-63-0	2,100		120	590		1
10501	Methanol	67-56-1	1,700		120	590		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	210		5.9	15		1
08283	Ethylene glycol	107-21-1	190		5.9	15		1
08283	Propylene glycol	57-55-6	190		5.9	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6		1.5	1.5		1
10318	o-Terphenyl	84-15-1	1.9	J	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.5		1.4	1.4		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,800		5.82	23.1		1
07914	Boron	7440-42-8	226		1.03	5.79		1
01650	Calcium	7440-70-2	2,870		7.10	23.1		1
01654	Iron	7439-89-6	19,100		5.45	23.1		1
01656	Lithium	7439-93-2	141		0.25	2.3		1
01657	Magnesium	7439-95-4	4,330		2.94	11.6		1
06958	Manganese	7439-96-5	320		0.0903	0.579		1
10145	Phosphorus	7723-14-0	402		0.648	11.6		1
01662	Potassium	7440-09-7	5,020		20.8	57.9		1
01667	Sodium	7440-23-5	1,270		43.2	116		1
07968	Strontium	7440-24-6	136		0.0718	0.579		1
06969	Tin	7440-31-5	418		1.16	11.6		1
06970	Titanium	7440-32-6	1,490		0.440	1.16		1
10146	Zirconium	7440-67-7	120		0.972	5.79		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.13		0.0701	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-187-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255763
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	5.92	0.0935	0.468		2
06126	Barium	7440-39-3	125	0.126	0.468		2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.						
06127	Beryllium	7440-41-7	1.53	0.0187	0.117		2
06128	Cadmium	7440-43-9	1.42	0.0468	0.117		2
06131	Chromium	7440-47-3	29.8	0.140	0.468		2
06132	Cobalt	7440-48-4	64.3	0.0234	0.117		2
06133	Copper	7440-50-8	24.9	0.0772	0.468		2
06135	Lead	7439-92-1	10.2	0.0122	0.234		2
06138	Molybdenum	7439-98-7	12.1	0.0584	0.117		2
06139	Nickel	7440-02-0	25.1	0.117	0.468		2
06141	Selenium	7782-49-2	2.39	0.0468	0.468		2
06142	Silver	7440-22-4	11.8	0.0140	0.117		2
06145	Thallium	7440-28-0	0.776	0.0351	0.117		2
06148	Vanadium	7440-62-2	47.5	0.0257	0.117		2
06149	Zinc	7440-66-6	75.8	0.655	3.51		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.180	0.0033	0.115		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-187-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 17:43	Chelsea B Eastep	0.9
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 18:28	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 12:25	Jason M Long	20.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110224083	04/12/2011 22:04	Lois E Hiltz	n.a.

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Sample Description: **SL-187-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255763
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110224083	04/12/2011 22:04	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110224083	04/12/2011 21:42	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 16:42	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 19:27	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/14/2011 19:59	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11101A34B	04/15/2011 14:28	Elizabeth J Marin	20.42
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:41	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 02:11	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 21:53	Michele D Hamilton	2
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111040008A	04/15/2011 17:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111040008A	04/14/2011 16:05	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/22/2011 20:03	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 20:25	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111030027A	04/14/2011 19:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 08:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111030027A	04/13/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 07:49	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 07:49	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 07:49	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 16:58	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 07:49	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 07:49	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 07:49	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 07:49	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 07:49	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 07:49	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 07:49	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 07:49	Damary Valentin	1

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Sample Description: **SL-187-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255763
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 07:49	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 07:49	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 09:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 09:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 09:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-187-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255764
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		5.82	23.1		1
07914	Boron	7440-42-8	2.98	J	1.03	5.79		1
01650	Calcium	7440-70-2	2,120		7.10	23.1		1
01654	Iron	7439-89-6	18,600		5.45	23.1		1
01656	Lithium	7439-93-2	19.7		0.25	2.3		1
01657	Magnesium	7439-95-4	3,860		2.94	11.6		1
06958	Manganese	7439-96-5	258		0.0903	0.579		1
10145	Phosphorus	7723-14-0	308		0.648	11.6		1
01662	Potassium	7440-09-7	3,540		20.8	57.9		1
01667	Sodium	7440-23-5	127		43.2	116		1
07968	Strontium	7440-24-6	20.7		0.0718	0.579		1
06969	Tin	7440-31-5	2.85	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,160		0.440	1.16		1
10146	Zirconium	7440-67-7	3.84	J	0.972	5.79		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.177	J	0.0701	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.88		0.0935	0.468		2
06126	Barium	7440-39-3	115		0.126	0.468		2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.							
06127	Beryllium	7440-41-7	0.507		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.200		0.0468	0.117		2
06131	Chromium	7440-47-3	15.0		0.140	0.468		2
06132	Cobalt	7440-48-4	5.54		0.0234	0.117		2
06133	Copper	7440-50-8	11.1		0.0772	0.468		2
06135	Lead	7439-92-1	5.15		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.520		0.0584	0.117		2
06139	Nickel	7440-02-0	10.3		0.117	0.468		2
06141	Selenium	7782-49-2	0.114	J	0.0468	0.468		2
06142	Silver	7440-22-4	0.0280	J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.289		0.0351	0.117		2
06148	Vanadium	7440-62-2	28.7		0.0257	0.117		2
06149	Zinc	7440-66-6	56.3		0.655	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-187-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255764
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.71	J	0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	144		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	14.3		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	15.3		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011	07:42	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011	07:42	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011	07:42	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011	16:51	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011	07:42	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011	07:42	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011	07:42	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011	07:42	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011	07:42	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011	07:42	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011	07:42	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011	07:42	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011	07:42	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011	07:42	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011	09:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011	09:02	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-187-SA5A-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255764
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE123-03DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 09:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11110495201B	04/21/2011 15:44	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11110495201B	04/21/2011 15:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201A	04/26/2011 13:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11111243201A	04/28/2011 07:04	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201A	04/21/2011 18:20	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11110495201B	04/20/2011 23:50	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201A	04/22/2011 13:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201A	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	2	11109182101A	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402A	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11111243201A	04/21/2011 19:50	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-188-SA5A-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SB-4.5-5.5

LLI Sample # SW 6255765
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:54

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL188 SDG#: DE123-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	14		6.0	7.1		0.78
06192	Benzene	71-43-2	0.09	U	0.09	3.6		0.78
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6		0.78
06192	Bromochloromethane	74-97-5	0.29	U	0.29	3.6		0.78
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6		0.78
06192	Bromoform	75-25-2	0.36	U	0.36	3.6		0.78
06192	Bromomethane	74-83-9	0.22	U	0.22	3.6		0.78
06192	2-Butanone	78-93-3	2.0	J	1.1	7.1		0.78
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6		0.78
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6		0.78
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.6		0.78
06192	Carbon Tetrachloride	56-23-5	0.12	U	0.12	3.6		0.78
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.6		0.78
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6		0.78
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6		0.78
06192	Chloroform	67-66-3	0.11	U	0.11	3.6		0.78
06192	Chloromethane	74-87-3	0.29	U	0.29	3.6		0.78
06192	2-Chlorotoluene	95-49-8	0.12	U	0.12	3.6		0.78
06192	4-Chlorotoluene	106-43-4	0.12	U	0.12	3.6		0.78
06192	Chlorotrifluoroethene	79-38-9	0.45	U	0.45	4.5		0.78
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.62	U	0.62	3.6		0.78
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6		0.78
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6		0.78
06192	Dibromomethane	74-95-3	0.21	U	0.21	3.6		0.78
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6		0.78
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6		0.78
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.6		0.78
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6		0.78
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6		0.78
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.6		0.78
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.6		0.78
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6		0.78
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6		0.78
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6		0.78
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6		0.78
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6		0.78
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6		0.78
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.6		0.78
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6		0.78
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.6		0.78
06192	Freon 113	76-13-1	0.1	U	0.1	3.6		0.78
06192	Freon 133a	75-88-7	0.45	U	0.45	4.5		0.78
06192	Hexachlorobutadiene	87-68-3	0.12	U	0.12	3.6		0.78
06192	2-Hexanone	591-78-6	1.4	U	1.4	7.1		0.78
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6		0.78
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.6		0.78
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6		0.78
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.1		0.78
06192	Methylene Chloride	75-09-2	0.46	J	0.21	3.6		0.78
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6		0.78

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-188-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SB-4.5-5.5

LLI Sample # SW 6255765
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:54

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL188 SDG#: DE123-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.6		0.78
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.6		0.78
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6		0.78
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6		0.78
06192	Toluene	108-88-3	0.07	U	0.07	3.6		0.78
06192	1,2,3-Trichlorobenzene	87-61-6	0.12	U	0.12	3.6		0.78
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6		0.78
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6		0.78
06192	1,1,2-Trichloroethane	79-00-5	0.24	U	0.24	3.6		0.78
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.6		0.78
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6		0.78
06192	1,2,3-Trichloropropane	96-18-4	0.29	U	0.29	3.6		0.78
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6		0.78
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6		0.78
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6		0.78
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.6		0.78
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6		0.78
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		23.54
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	351	J	190	381		10
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-188-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SB-4.5-5.5

LLI Sample # SW 6255765
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:54

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL188 SDG#: DE123-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	9.5	J	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	8.1	J	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: **SL-188-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SB-4.5-5.5

LLI Sample # SW 6255765
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:54

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL188 SDG#: DE123-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.23
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1

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Sample Description: SL-188-SA5A-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SB-4.5-5.5

LLI Sample # SW 6255765
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:54

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL188 SDG#: DE123-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.1	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Sample Description: SL-188-SA5A-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SB-4.5-5.5

LLI Sample # SW 6255765
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:54

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL188 SDG#: DE123-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,300		5.52	22.0		1
07914	Boron	7440-42-8	1.65	J	0.977	5.49		1
01650	Calcium	7440-70-2	3,630		6.73	22.0		1
01654	Iron	7439-89-6	22,800		5.17	22.0		1
01656	Lithium	7439-93-2	23.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,790		2.79	11.0		1
06958	Manganese	7439-96-5	330		0.0856	0.549		1
10145	Phosphorus	7723-14-0	389		0.615	11.0		1
01662	Potassium	7440-09-7	3,760		19.8	54.9		1
01667	Sodium	7440-23-5	137		40.9	110		1
07968	Strontium	7440-24-6	22.0		0.0681	0.549		1
06969	Tin	7440-31-5	2.99	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,280		0.417	1.10		1
10146	Zirconium	7440-67-7	4.49	J	0.922	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.226	J	0.0685	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.55		0.0913	0.457		2
06126	Barium	7440-39-3	190		0.123	0.457		2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.							
06127	Beryllium	7440-41-7	0.914		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.332		0.0457	0.114		2
06131	Chromium	7440-47-3	27.3		0.137	0.457		2
06132	Cobalt	7440-48-4	10.5		0.0228	0.114		2
06133	Copper	7440-50-8	20.1		0.0753	0.457		2
06135	Lead	7439-92-1	9.13		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.965		0.0571	0.114		2
06139	Nickel	7440-02-0	20.4		0.114	0.457		2
06141	Selenium	7782-49-2	0.160	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.0621	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.431		0.0342	0.114		2
06148	Vanadium	7440-62-2	47.6		0.0251	0.114		2
06149	Zinc	7440-66-6	87.6		0.639	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-188-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SB-4.5-5.5

LLI Sample # SW 6255765
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:54

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL188 SDG#: DE123-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	288		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.54		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-188-SA5A-SB-5.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 18:51	Chelsea B Eastep	0.78
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 13:04	Jason M Long	23.54
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:48	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110224083	04/12/2011 22:04	Lois E Hiltz	n.a.

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Sample Description: **SL-188-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SB-4.5-5.5

LLI Sample # SW 6255765
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL188 SDG#: DE123-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110224083	04/12/2011 22:04	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110224083	04/12/2011 21:46	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 16:59	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 19:51	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/15/2011 02:21	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11101A34B	04/15/2011 15:05	Elizabeth J Marin	20.23
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:45	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 02:54	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 00:29	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111040008A	04/15/2011 17:39	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111040008A	04/14/2011 16:05	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/22/2011 20:28	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 20:54	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111030027A	04/14/2011 20:02	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 09:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111030027A	04/13/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 08:56	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 08:56	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 08:56	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 18:04	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 08:56	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 08:56	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 08:56	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 08:56	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 08:56	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 08:56	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 08:56	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 08:56	Damary Valentin	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-188-SA5A-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SB-4.5-5.5

LLI Sample # SW 6255765
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:54

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL188 SDG#: DE123-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 08:56	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 08:56	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 10:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 10:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 10:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 10:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 10:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 10:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 10:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 10:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 10:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 10:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 10:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 10:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 10:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 10:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 10:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 10:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11110495201A	04/21/2011 14:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11110495201A	04/21/2011 14:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201A	04/26/2011 14:45	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11111243201A	04/28/2011 07:23	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201A	04/21/2011 18:21	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11110495201A	04/20/2011 23:50	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201A	04/22/2011 13:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201A	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	2	11109182101A	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402A	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11111243201A	04/21/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-189-SA5A-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-5.0-6.0

LLI Sample # SW 6255766
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:12

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1895 SDG#: DE123-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	33		7.6	9.0		0.93
06192	Benzene	71-43-2	3.0	J	0.11	4.5		0.93
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.93
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.93
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.93
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.93
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.93
06192	2-Butanone	78-93-3	8.0	J	1.4	9.0		0.93
06192	n-Butylbenzene	104-51-8	24		0.14	4.5		0.93
06192	sec-Butylbenzene	135-98-8	71		0.07	4.5		0.93
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.93
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.93
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.93
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		0.93
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.93
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.93
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.93
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.93
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		0.93
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.93
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.93
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.93
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.93
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		0.93
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.93
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.93
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.93
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.93
06192	Ethylbenzene	100-41-4	190		0.07	4.5		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.93
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.93
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.93
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		0.93
06192	Isopropylbenzene	98-82-8	77		0.07	4.5		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		0.93
06192	Methylene Chloride	75-09-2	0.66	J	0.27	4.5		0.93
06192	n-Propylbenzene	103-65-1	120		0.08	4.5		0.93

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Sample Description: SL-189-SA5A-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-5.0-6.0

LLI Sample # SW 6255766
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:12

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1895 SDG#: DE123-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.93
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		0.93
06192	Toluene	108-88-3	0.25	J	0.09	4.5		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		0.93
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.93
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.93
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		0.93
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.93
06192	o-Xylene	95-47-6	4.1	J	0.19	4.5		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		21.48
	The GC/MS volatile internal standard peak areas were outside the QC limits. A re-analysis was performed, and the matrix effect was confirmed.							
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	321	J	202	404		10
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	2,000	U	2,000	6,000		10
04688	Benzidine	92-87-5	14,000	U	14,000	40,000		10
04688	Benzoic acid	65-85-0	2,000	U	2,000	6,000		10
04688	Benzyl alcohol	100-51-6	2,000	U	2,000	6,000		10
04688	4-Bromophenyl-phenylether	101-55-3	200	U	200	2,000		10
04688	Carbazole	86-74-8	200	U	200	2,000		10
04688	4-Chloro-3-methylphenol	59-50-7	400	U	400	2,000		10
04688	4-Chloroaniline	106-47-8	800	U	800	2,000		10
04688	bis(2-Chloroethoxy)methane	111-91-1	200	U	200	2,000		10
04688	bis(2-Chloroethyl)ether	111-44-4	200	U	200	2,000		10
04688	bis(2-Chloroisopropyl)ether	39638-32-9	200	U	200	2,000		10
04688	2-Chloronaphthalene	91-58-7	200	U	200	2,000		10
04688	2-Chlorophenol	95-57-8	200	U	200	2,000		10
04688	4-Chlorophenyl-phenylether	7005-72-3	400	U	400	2,000		10
04688	Dibenzofuran	132-64-9	200	U	200	2,000		10
04688	1,2-Dichlorobenzene	95-50-1	200	U	200	2,000		10
04688	1,3-Dichlorobenzene	541-73-1	200	U	200	2,000		10
04688	1,4-Dichlorobenzene	106-46-7	200	U	200	2,000		10
04688	3,3'-Dichlorobenzidine	91-94-1	1,200	U	1,200	4,000		10
04688	2,4-Dichlorophenol	120-83-2	200	U	200	2,000		10
04688	2,4-Dimethylphenol	105-67-9	400	U	400	2,000		10

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-189-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-5.0-6.0

LLI Sample # SW 6255766
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:12

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1895 SDG#: DE123-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3,5-Dimethylphenol	108-68-9	400	U	400	2,000		10
04688	4,6-Dinitro-2-methylphenol	534-52-1	2,000	U	2,000	6,000		10
04688	2,4-Dinitrophenol	51-28-5	4,000	U	4,000	12,000		10
04688	2,4-Dinitrotoluene	121-14-2	400	U	400	2,000		10
04688	2,6-Dinitrotoluene	606-20-2	200	U	200	2,000		10
04688	1,2-Diphenylhydrazine	122-66-7	200	U	200	2,000		10
04688	bis(2-Ethylhexyl)phthalate	117-81-7	200	J	200	4,000		10
04688	Fluorene	86-73-7	710	J	200	2,000		10
04688	Hexachlorobenzene	118-74-1	200	U	200	2,000		10
04688	Hexachlorobutadiene	87-68-3	800	U	800	2,000		10
04688	Hexachlorocyclopentadiene	77-47-4	2,000	U	2,000	6,000		10
04688	Hexachloroethane	67-72-1	200	U	200	2,000		10
04688	Isophorone	78-59-1	200	U	200	2,000		10
04688	1-Methylnaphthalene	90-12-0	6,500		200	2,000		10
04688	2-Methylnaphthalene	91-57-6	3,200		200	2,000		10
04688	2-Methylphenol	95-48-7	400	U	400	2,000		10
04688	4-Methylphenol	106-44-5	400	U	400	2,000		10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,400	J	200	2,000		10
04688	2-Nitroaniline	88-74-4	200	U	200	2,000		10
04688	3-Nitroaniline	99-09-2	400	U	400	2,000		10
04688	4-Nitroaniline	100-01-6	800	U	800	2,000		10
04688	Nitrobenzene	98-95-3	200	U	200	2,000		10
04688	2-Nitrophenol	88-75-5	200	U	200	2,000		10
04688	4-Nitrophenol	100-02-7	2,000	U	2,000	6,000		10
04688	N-Nitroso-di-n-propylamine	621-64-7	200	U	200	2,000		10
04688	N-Nitrosodiphenylamine	86-30-6	200	U	200	2,000		10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	2,000	U	2,000	6,000		10
04688	Phenol	108-95-2	200	U	200	2,000		10
04688	1,2,4-Trichlorobenzene	120-82-1	200	U	200	2,000		10
04688	2,4,5-Trichlorophenol	95-95-4	400	U	400	2,000		10
04688	2,4,6-Trichlorophenol	88-06-2	400	U	400	2,000		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	310		16	40		20
10138	Acenaphthylene	208-96-8	150		8.0	40		20
10138	Anthracene	120-12-7	95		8.0	40		20
10138	Benzo(a)anthracene	56-55-3	240		16	40		20
10138	Benzo(a)pyrene	50-32-8	280		16	40		20
10138	Benzo(b)fluoranthene	205-99-2	360		16	40		20
10138	Benzo(g,h,i)perylene	191-24-2	230		16	40		20
10138	Benzo(k)fluoranthene	207-08-9	130		16	40		20
10138	Butylbenzylphthalate	85-68-7	140	U	140	430		20
10138	Di-n-butylphthalate	84-74-2	140	U	140	430		20

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-189-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-5.0-6.0

LLI Sample # SW 6255766
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:12

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1895 SDG#: DE123-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	290		8.0	40		20
10138	Dibenz(a,h)anthracene	53-70-3	50		16	40		20
10138	Diethylphthalate	84-66-2	140	U	140	430		20
10138	Dimethylphthalate	131-11-3	140	U	140	430		20
10138	Fluoranthene	206-44-0	350		16	40		20
10138	Indeno(1,2,3-cd)pyrene	193-39-5	170		16	40		20
10138	N-Nitrosodimethylamine	62-75-9	16	U	16	40		20
10138	Di-n-octylphthalate	117-84-0	140	U	140	430		20
10138	Phenanthrene	85-01-8	520		16	40		20
10138	Pyrene	129-00-0	330		16	40		20

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
n-nitrosodimethylamine

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	450		8.8	44		910.75
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1

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Sample Description: SL-189-SA5A-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-5.0-6.0

LLI Sample # SW 6255766
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:12

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1895 SDG#: DE123-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	950	U	950	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	14,000		1,400	3,600		2
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	5.0		1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	3.4		0.40	2.1		1
10225	PCB-1254	11097-69-1	7.1		0.40	2.1		1
10225	PCB-1260	11096-82-5	4.8		0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1,900		48	140		100
10199	EFH (C15-C20)	n.a.	3,400		48	140		100
10199	EFH (C21-C30)	n.a.	290		48	140		100
10199	EFH (C30 - C40)	n.a.	48	U	48	140		100
10199	EFH (C8-C11)	n.a.	580		48	140		100
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	300	J	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1

The sample was injected numerous times. Each time the responses for

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Sample Description: SL-189-SA5A-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-5.0-6.0

LLI Sample # SW 6255766
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:12

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1895 SDG#: DE123-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	22	U	22	51		1
10318	o-Terphenyl	84-15-1	22	U	22	51		1
10318	p-Terphenyl	92-94-4	22	U	22	51		1
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,500		5.97	23.7		1
07914	Boron	7440-42-8	2.32	J	1.06	5.93		1
01650	Calcium	7440-70-2	2,880		7.28	23.7		1
01654	Iron	7439-89-6	22,500		5.59	23.7		1
01656	Lithium	7439-93-2	21.7		0.26	2.4		1
01657	Magnesium	7439-95-4	4,420		3.01	11.9		1
06958	Manganese	7439-96-5	300		0.0926	0.593		1
10145	Phosphorus	7723-14-0	361		0.665	11.9		1
01662	Potassium	7440-09-7	3,970		21.4	59.3		1
01667	Sodium	7440-23-5	146		44.3	119		1
07968	Strontium	7440-24-6	22.0		0.0736	0.593		1
06969	Tin	7440-31-5	3.30	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,280		0.451	1.19		1
10146	Zirconium	7440-67-7	4.81	J	0.997	5.93		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.277		0.0726	0.242		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.72		0.0969	0.484		2
06126	Barium	7440-39-3	781		0.654	2.42		10
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.							
06127	Beryllium	7440-41-7	0.707		0.0194	0.121		2
06128	Cadmium	7440-43-9	0.780		0.0484	0.121		2
06131	Chromium	7440-47-3	20.7		0.145	0.484		2
06132	Cobalt	7440-48-4	8.10		0.0242	0.121		2
06133	Copper	7440-50-8	43.9		0.0799	0.484		2
06135	Lead	7439-92-1	11.0		0.0126	0.242		2
06138	Molybdenum	7439-98-7	0.687		0.0605	0.121		2
06139	Nickel	7440-02-0	14.8		0.121	0.484		2
06141	Selenium	7782-49-2	0.133	J	0.0484	0.484		2
06142	Silver	7440-22-4	0.0495	J	0.0145	0.121		2
06145	Thallium	7440-28-0	0.398		0.0363	0.121		2
06148	Vanadium	7440-62-2	36.9		0.0266	0.121		2
06149	Zinc	7440-66-6	190		0.678	3.63		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	

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SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-5.0-6.0

LLI Sample # SW 6255766
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:12

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S1895 SDG#: DE123-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.118		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.97	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.97	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	168		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-189-SA5A-SB-5.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 19:13	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 15:02	Jason M Long	21.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:53	Lois E Hiltz	n.a.

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SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-5.0-6.0

LLI Sample # SW 6255766
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S1895 SDG#: DE123-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110224083	04/12/2011 22:04	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110224083	04/12/2011 22:04	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110224083	04/12/2011 21:51	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 17:15	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/18/2011 09:46	Matthew S Woods	10
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/15/2011 09:40	Joseph M Gambler	20
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11101A34B	04/15/2011 17:30	Elizabeth J Marin	910.75
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:50	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 05:01	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 22:02	Michele D Hamilton	2
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111040008A	04/15/2011 17:58	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111040008A	04/14/2011 16:05	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/23/2011 00:38	Heather E Williams	100
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 21:09	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111030027A	04/14/2011 20:20	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 10:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111030027A	04/13/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 09:00	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 09:00	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 09:00	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 18:08	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 09:00	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 09:00	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 09:00	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 09:00	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 09:00	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 09:00	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 09:00	Damary Valentin	1

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SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-5.0-6.0

LLI Sample # SW 6255766
LLI Group # 1241638
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S1895 SDG#: DE123-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 09:00	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 09:00	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 09:00	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 10:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 10:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 15:23	Choon Y Tian	10
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 10:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 10:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 10:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 10:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 10:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 10:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 10:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 10:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 10:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 10:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 10:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 10:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 10:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11110495201A	04/21/2011 15:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11110495201A	04/21/2011 15:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201A	04/26/2011 15:07	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11111243201A	04/28/2011 07:42	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201A	04/21/2011 18:22	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11110495201A	04/20/2011 23:50	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201A	04/22/2011 13:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201A	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	2	11109182101A	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402A	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11111243201A	04/21/2011 19:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-189-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255767
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:23

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1898 SDG#: DE123-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	330	U	330	400		42.52
06192	Benzene	71-43-2	8.4	J	4.9	200		42.52
06192	Bromobenzene	108-86-1	6.4	U	6.4	200		42.52
06192	Bromochloromethane	74-97-5	16	U	16	200		42.52
06192	Bromodichloromethane	75-27-4	50	J	4.0	200		42.52
06192	Bromoform	75-25-2	20	U	20	200		42.52
06192	Bromomethane	74-83-9	12	U	12	200		42.52
06192	2-Butanone	78-93-3	60	U	60	400		42.52
06192	n-Butylbenzene	104-51-8	600		5.9	200		42.52
06192	sec-Butylbenzene	135-98-8	990		3.0	200		42.52
06192	tert-Butylbenzene	98-06-6	47	J	7.9	200		42.52
06192	Carbon Tetrachloride	56-23-5	6.9	U	6.9	200		42.52
06192	Chlorobenzene	108-90-7	5.4	U	5.4	200		42.52
06192	Chloroethane	75-00-3	6.4	U	6.4	200		42.52
06192	2-Chloroethyl Vinyl Ether	110-75-8	15	U	15	200		42.52
06192	Chloroform	67-66-3	5.9	U	5.9	200		42.52
06192	Chloromethane	74-87-3	16	U	16	200		42.52
06192	2-Chlorotoluene	95-49-8	6.9	U	6.9	200		42.52
06192	4-Chlorotoluene	106-43-4	6.9	U	6.9	200		42.52
06192	Chlorotrifluoroethene	79-38-9	25	U	25	250		42.52
06192	1,2-Dibromo-3-chloropropane	96-12-8	35	U	35	200		42.52
06192	Dibromochloromethane	124-48-1	9.9	U	9.9	200		42.52
06192	1,2-Dibromoethane	106-93-4	8.4	U	8.4	200		42.52
06192	Dibromomethane	74-95-3	12	U	12	200		42.52
06192	1,2-Dichlorobenzene	95-50-1	4.4	U	4.4	200		42.52
06192	1,3-Dichlorobenzene	541-73-1	5.9	U	5.9	200		42.52
06192	1,4-Dichlorobenzene	106-46-7	7.9	U	7.9	200		42.52
06192	Dichlorodifluoromethane	75-71-8	5.9	U	5.9	200		42.52
06192	1,1-Dichloroethane	75-34-3	4.9	U	4.9	200		42.52
06192	1,2-Dichloroethane	107-06-2	7.4	U	7.4	200		42.52
06192	1,1-Dichloroethene	75-35-4	19	U	19	200		42.52
06192	cis-1,2-Dichloroethene	156-59-2	9.4	U	9.4	200		42.52
06192	trans-1,2-Dichloroethene	156-60-5	5.9	U	5.9	200		42.52
06192	1,2-Dichloropropane	78-87-5	8.4	U	8.4	200		42.52
06192	1,3-Dichloropropane	142-28-9	4.0	U	4.0	200		42.52
06192	2,2-Dichloropropane	594-20-7	8.4	U	8.4	200		42.52
06192	1,1-Dichloropropene	563-58-6	6.4	U	6.4	200		42.52
06192	cis-1,3-Dichloropropene	10061-01-5	7.9	U	7.9	200		42.52
06192	trans-1,3-Dichloropropene	10061-02-6	8.4	U	8.4	200		42.52
06192	Ethylbenzene	100-41-4	610		3.0	200		42.52
06192	Freon 113	76-13-1	5.4	U	5.4	200		42.52
06192	Freon 133a	75-88-7	25	U	25	250		42.52
06192	Hexachlorobutadiene	87-68-3	100	J	6.9	200		42.52
06192	2-Hexanone	591-78-6	79	U	79	400		42.52
06192	Isopropylbenzene	98-82-8	490		3.0	200		42.52
06192	p-Isopropyltoluene	99-87-6	130	J	5.4	200		42.52
06192	Methyl Tertiary Butyl Ether	1634-04-4	10	U	10	200		42.52
06192	4-Methyl-2-pentanone	108-10-1	19	U	19	400		42.52
06192	Methylene Chloride	75-09-2	12	U	12	200		42.52
06192	n-Propylbenzene	103-65-1	910		3.5	200		42.52

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Sample Description: SL-189-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255767
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:23

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1898 SDG#: DE123-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	4.9	U	4.9	200		42.52
06192	1,1,1,2-Tetrachloroethane	630-20-6	5.4	U	5.4	200		42.52
06192	1,1,2,2-Tetrachloroethane	79-34-5	11	U	11	200		42.52
06192	Tetrachloroethene	127-18-4	9.9	U	9.9	200		42.52
06192	Toluene	108-88-3	4.0	U	4.0	200		42.52
06192	1,2,3-Trichlorobenzene	87-61-6	85	J	6.9	200		42.52
06192	1,2,4-Trichlorobenzene	120-82-1	8.9	U	8.9	200		42.52
06192	1,1,1-Trichloroethane	71-55-6	9.9	U	9.9	200		42.52
06192	1,1,2-Trichloroethane	79-00-5	13	U	13	200		42.52
06192	Trichloroethene	79-01-6	7.4	U	7.4	200		42.52
06192	Trichlorofluoromethane	75-69-4	14	U	14	200		42.52
06192	1,2,3-Trichloropropane	96-18-4	16	U	16	200		42.52
06192	1,2,4-Trimethylbenzene	95-63-6	32	J	20	200		42.52
06192	1,3,5-Trimethylbenzene	108-67-8	4.9	U	4.9	200		42.52
06192	Vinyl Chloride	75-01-4	9.9	U	9.9	200		42.52
06192	m+p-Xylene	179601-23-1	16	J	8.4	200		42.52
06192	o-Xylene	95-47-6	13	J	8.4	200		42.52
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.37
	The GC/MS volatile internal standard peak areas were outside the QC limits. A re-analysis was performed, and the matrix effect was confirmed.							
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	264	J	194	388		10
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	1,900	U	1,900	5,700		10
04688	Benzidine	92-87-5	13,000	U	13,000	38,000		10
04688	Benzoic acid	65-85-0	1,900	U	1,900	5,700		10
04688	Benzyl alcohol	100-51-6	1,900	U	1,900	5,700		10
04688	4-Bromophenyl-phenylether	101-55-3	190	U	190	1,900		10
04688	Butylbenzylphthalate	85-68-7	190	U	190	1,900		10
04688	Di-n-butylphthalate	84-74-2	190	U	190	1,900		10
04688	Carbazole	86-74-8	190	U	190	1,900		10
04688	4-Chloro-3-methylphenol	59-50-7	380	U	380	1,900		10
04688	4-Chloroaniline	106-47-8	760	U	760	1,900		10
04688	bis(2-Chloroethoxy)methane	111-91-1	190	U	190	1,900		10
04688	bis(2-Chloroethyl)ether	111-44-4	190	U	190	1,900		10
04688	bis(2-Chloroisopropyl)ether	39638-32-9	190	U	190	1,900		10
04688	2-Chloronaphthalene	91-58-7	190	U	190	1,900		10
04688	2-Chlorophenol	95-57-8	190	U	190	1,900		10
04688	4-Chlorophenyl-phenylether	7005-72-3	380	U	380	1,900		10
04688	Dibenzofuran	132-64-9	190	U	190	1,900		10
04688	1,2-Dichlorobenzene	95-50-1	190	U	190	1,900		10
04688	1,3-Dichlorobenzene	541-73-1	190	U	190	1,900		10
04688	1,4-Dichlorobenzene	106-46-7	190	U	190	1,900		10

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Sample Description: SL-189-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255767
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:23

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1898 SDG#: DE123-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	U	1,100	3,800		10
04688	2,4-Dichlorophenol	120-83-2	190	U	190	1,900		10
04688	Diethylphthalate	84-66-2	190	U	190	1,900		10
04688	2,4-Dimethylphenol	105-67-9	380	U	380	1,900		10
04688	3,5-Dimethylphenol	108-68-9	380	U	380	1,900		10
04688	Dimethylphthalate	131-11-3	190	U	190	1,900		10
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,900	U	1,900	5,700		10
04688	2,4-Dinitrophenol	51-28-5	3,800	U	3,800	11,000		10
04688	2,4-Dinitrotoluene	121-14-2	380	U	380	1,900		10
04688	2,6-Dinitrotoluene	606-20-2	190	U	190	1,900		10
04688	1,2-Diphenylhydrazine	122-66-7	190	U	190	1,900		10
04688	bis(2-Ethylhexyl)phthalate	117-81-7	190	U	190	3,800		10
04688	Fluorene	86-73-7	2,300		190	1,900		10
04688	Hexachlorobenzene	118-74-1	190	U	190	1,900		10
04688	Hexachlorobutadiene	87-68-3	760	U	760	1,900		10
04688	Hexachlorocyclopentadiene	77-47-4	1,900	U	1,900	5,700		10
04688	Hexachloroethane	67-72-1	190	U	190	1,900		10
04688	Isophorone	78-59-1	190	U	190	1,900		10
04688	2-Methylphenol	95-48-7	380	U	380	1,900		10
04688	4-Methylphenol	106-44-5	380	U	380	1,900		10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	190	U	190	1,900		10
04688	3-Nitroaniline	99-09-2	380	U	380	1,900		10
04688	4-Nitroaniline	100-01-6	760	U	760	1,900		10
04688	Nitrobenzene	98-95-3	190	U	190	1,900		10
04688	2-Nitrophenol	88-75-5	190	U	190	1,900		10
04688	4-Nitrophenol	100-02-7	1,900	U	1,900	5,700		10
04688	N-Nitroso-di-n-propylamine	621-64-7	190	U	190	1,900		10
04688	N-Nitrosodiphenylamine	86-30-6	190	U	190	1,900		10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	190	U	190	1,900		10
04688	Pentachlorophenol	87-86-5	1,900	U	1,900	5,700		10
04688	Phenol	108-95-2	190	U	190	1,900		10
04688	1,2,4-Trichlorobenzene	120-82-1	190	U	190	1,900		10
04688	2,4,5-Trichlorophenol	95-95-4	380	U	380	1,900		10
04688	2,4,6-Trichlorophenol	88-06-2	380	U	380	1,900		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	990		15	38		20
10138	Acenaphthylene	208-96-8	7.6	U	7.6	38		20
10138	Anthracene	120-12-7	890		7.6	38		20
10138	Benzo(a)anthracene	56-55-3	640		15	38		20
10138	Benzo(a)pyrene	50-32-8	370		15	38		20
10138	Benzo(b)fluoranthene	205-99-2	510		15	38		20
10138	Benzo(g,h,i)perylene	191-24-2	190		15	38		20

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Sample Description: SL-189-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255767
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:23

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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S1898 SDG#: DE123-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(k)fluoranthene	207-08-9	170		15	38		20
10138	Chrysene	218-01-9	610		7.6	38		20
10138	Dibenz(a,h)anthracene	53-70-3	45		15	38		20
10138	Fluoranthene	206-44-0	2,000		15	38		20
10138	Indeno(1,2,3-cd)pyrene	193-39-5	170		15	38		20
10138	1-Methylnaphthalene	90-12-0	27,000		150	380		200
10138	2-Methylnaphthalene	91-57-6	36,000		150	380		200
10138	Naphthalene	91-20-3	7,400		15	38		20
10138	N-Nitrosodimethylamine	62-75-9	15	U	15	38		20
10138	Phenanthrene	85-01-8	4,700		15	38		20
10138	Pyrene	129-00-0	1,800		15	38		20

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
n-nitrosodimethylamine

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	660		7.9	40		851.79
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	98	J	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1

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Sample Description: SL-189-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255767
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S1898 SDG#: DE123-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
	2,4-Diamino-6-nitrotoluene and 2,6-Diamino-4-nitrotoluene coelute on both the primary and confirmation column analysis. Therefore, the peak detected in the sample is reported as 2,4-diamino-6-dinitrotoluene.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	21,000		6,900	17,000		10
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.64	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1,400		93	280		200
10199	EFH (C15-C20)	n.a.	1,900		93	280		200
10199	EFH (C21-C30)	n.a.	150	J	93	280		200
10199	EFH (C30 - C40)	n.a.	93	U	93	280		200
10199	EFH (C8-C11)	n.a.	710		93	280		200
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	230	U	230	580		1

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Sample Description: SL-189-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255767
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:23

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1898 SDG#: DE123-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	8.9	J	5.8	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	21	U	21	49		1
10318	o-Terphenyl	84-15-1	21	U	21	49		1
10318	p-Terphenyl	92-94-4	21	U	21	49		1
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		5.73	22.8		1
07914	Boron	7440-42-8	2.57	J	1.01	5.70		1
01650	Calcium	7440-70-2	4,330		6.99	22.8		1
01654	Iron	7439-89-6	19,700		5.37	22.8		1
01656	Lithium	7439-93-2	19.8		0.25	2.3		1
01657	Magnesium	7439-95-4	4,050		2.90	11.4		1
06958	Manganese	7439-96-5	323		0.0889	0.570		1
10145	Phosphorus	7723-14-0	323		0.638	11.4		1
01662	Potassium	7440-09-7	3,660		20.5	57.0		1
01667	Sodium	7440-23-5	153		42.5	114		1
07968	Strontium	7440-24-6	22.7		0.0707	0.570		1
06969	Tin	7440-31-5	3.09	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,160		0.433	1.14		1
10146	Zirconium	7440-67-7	2.15	J	0.958	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.160	J	0.0698	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.34		0.0930	0.465		2
06126	Barium	7440-39-3	109		0.126	0.465		2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.							
06127	Beryllium	7440-41-7	0.523		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.239		0.0465	0.116		2
06131	Chromium	7440-47-3	15.6		0.140	0.465		2
06132	Cobalt	7440-48-4	6.55		0.0233	0.116		2
06133	Copper	7440-50-8	12.1		0.0767	0.465		2
06135	Lead	7439-92-1	6.08		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.736		0.0581	0.116		2
06139	Nickel	7440-02-0	11.0		0.116	0.465		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-189-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255767
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:23

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1898 SDG#: DE123-06

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06141	Selenium		7782-49-2	0.0980	J	0.0465	0.465		2
06142	Silver		7440-22-4	0.0547	J	0.0140	0.116		2
06145	Thallium		7440-28-0	0.303		0.0349	0.116		2
06148	Vanadium		7440-62-2	29.0		0.0256	0.116		2
06149	Zinc		7440-66-6	56.2		0.651	3.49		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.2		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate		14797-55-8	1.3	J	0.93	1.7		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.5	U	10.5	34.9		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	1.1	J	0.23	1.2		1
		SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B		57-12-5	0.21	U	0.21	0.58		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	145		10.0	10.0		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.23		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	14.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-189-SA5A-SB-9.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-189-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255767
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:23

Submitted: 04/12/2011 10:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1898 SDG#: DE123-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	R111051AA	04/15/2011 12:47	Lauren C Temple	42.52
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 15:22	Jason M Long	21.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:58	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110224083	04/12/2011 22:04	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110224083	04/12/2011 22:04	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110224083	04/12/2011 21:56	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 17:32	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/18/2011 10:10	Matthew S Woods	10
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/15/2011 10:11	Joseph M Gambler	20
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/15/2011 14:14	Joseph M Gambler	200
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11101A34B	04/15/2011 18:06	Elizabeth J Marin	851.79
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201110224083	04/12/2011 21:55	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/18/2011 10:10	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 22:12	Michele D Hamilton	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111040008A	04/15/2011 18:16	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111040008A	04/14/2011 16:05	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/23/2011 01:02	Heather E Williams	200
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 21:24	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111030027A	04/14/2011 20:38	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 10:56	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111030027A	04/13/2011 12:00	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 09:03	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 09:03	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 09:03	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 18:12	John P Hook	1

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Sample Description: **SL-189-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255767
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:23

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1898 SDG#: DE123-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 09:03	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 09:03	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 09:03	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 09:03	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 09:03	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 09:03	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 09:03	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 09:03	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 09:03	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 09:03	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 10:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 10:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 10:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 10:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 10:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 10:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 10:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 10:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 10:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 10:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 10:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 10:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 10:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 10:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 10:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 10:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11110495201A	04/21/2011 15:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11110495201A	04/21/2011 15:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201A	04/26/2011 15:30	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11111243201A	04/28/2011 07:54	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201A	04/21/2011 18:23	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11110495201A	04/20/2011 23:50	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201A	04/22/2011 13:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201A	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	2	11109182101A	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402A	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11111243201A	04/21/2011 19:50	Daniel S Smith	1

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Sample Description: **SL-189-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255767
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:23

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1898 SDG#: DE123-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-041111 Water
SSFL Area IV Collocated Soil Sampling
TB-041111

LLI Sample # WW 6255768
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 17:00

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB411 SDG#: DE123-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-041111 Water
SSFL Area IV Collocated Soil Sampling
TB-041111

LLI Sample # WW 6255768
LLI Group # 1241638
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 17:00

Submitted: 04/12/2011 10:20
Reported: 05/23/2011 13:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB411 SDG#: DE123-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111081AA	04/18/2011	05:06	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111031AA	04/13/2011	09:53	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111031AA	04/13/2011	09:53	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111081AA	04/18/2011	05:06	Holly Berry	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11104A20A	04/15/2011	12:11	Elizabeth J Marin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11104A20A	04/15/2011	12:11	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111032AA	Sample number(s): 6255759-6255763,6255765-6255766									
Acetone	6.7	U	6.7	8.0	ug/kg	83		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	105		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	121		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	88		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	78		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	88		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	104		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	108		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	101		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	94		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	98		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	78		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	77		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	99		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	90		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	76		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	84		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	89		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	97		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	95		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	96		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	100		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	79		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	94		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	107		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	99		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	96		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	89		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	94		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	108		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	102		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	90		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	104		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	92		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	92		61-134		
Methylene Chloride	1.3	J	0.24	4.0	ug/kg	104		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	107		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	93		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	92		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	101		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	97		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	93		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	97		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	96		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	100		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	92		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	98		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	104		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	91		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	95		80-120		
Batch number: E111031AA	Sample number(s): 6255768									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	111		80-123		
Batch number: E111041AA	Sample number(s): 6255759-6255763,6255765-6255767									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	113	110	70-130	3	30
Batch number: R111051AA	Sample number(s): 6255767									
Acetone	330 U		330.	400	ug/kg	78	78	32-209	0	30
Benzene	5.0	U	5.0	200	ug/kg	104	104	80-120	0	30
Bromobenzene	6.5	U	6.5	200	ug/kg	97	94	79-120	3	30
Bromochloromethane	17	U	17.	200	ug/kg	110	109	79-124	1	30
Bromodichloromethane	4.0	U	4.0	200	ug/kg	99	98	78-120	1	30
Bromoform	20	U	20.	200	ug/kg	92	90	70-120	2	30
Bromomethane	13	U	13.	200	ug/kg	139	139	32-162	0	30
2-Butanone	61	U	61.	400	ug/kg	84	82	46-153	2	30
n-Butylbenzene	6.0	U	6.0	200	ug/kg	83	84	72-120	1	30
sec-Butylbenzene	3.0	U	3.0	200	ug/kg	85	88	75-120	3	30
tert-Butylbenzene	8.0	U	8.0	200	ug/kg	86	89	75-120	2	30
Carbon Tetrachloride	7.0	U	7.0	200	ug/kg	96	104	69-122	8	30
Chlorobenzene	5.5	U	5.5	200	ug/kg	94	95	80-120	0	30
Chloroethane	6.5	U	6.5	200	ug/kg	155*	158*	37-154	2	30
2-Chloroethyl Vinyl Ether	15	U	15.	200	ug/kg	95	94	43-146	2	30
Chloroform	6.0	U	6.0	200	ug/kg	101	101	80-120	0	30
Chloromethane	17	U	17.	200	ug/kg	82	86	54-132	5	30
2-Chlorotoluene	7.0	U	7.0	200	ug/kg	91	91	78-120	1	30
4-Chlorotoluene	7.0	U	7.0	200	ug/kg	93	93	79-120	0	30
Chlorotrifluoroethene	25	U	25.	250	ug/kg	46	61	22-131	29	30
1,2-Dibromo-3-chloropropane	35	U	35.	200	ug/kg	78	74	58-120	6	30
Dibromochloromethane	10	U	10.	200	ug/kg	94	92	77-120	2	30
1,2-Dibromoethane	8.5	U	8.5	200	ug/kg	98	96	80-120	3	30
Dibromomethane	12	U	12.	200	ug/kg	103	101	80-120	2	30
1,2-Dichlorobenzene	4.5	U	4.5	200	ug/kg	93	92	79-120	2	30
1,3-Dichlorobenzene	6.0	U	6.0	200	ug/kg	92	91	78-120	1	30
1,4-Dichlorobenzene	8.0	U	8.0	200	ug/kg	92	91	79-120	1	30
Dichlorodifluoromethane	6.0	U	6.0	200	ug/kg	72	87	20-120	19	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethane	5.0	U	5.0	200	ug/kg	101	104	80-120	3	30
1,2-Dichloroethane	7.5	U	7.5	200	ug/kg	102	101	71-129	2	30
1,1-Dichloroethene	20	U	20.	200	ug/kg	104	112	73-123	7	30
cis-1,2-Dichloroethene	9.5	U	9.5	200	ug/kg	104	105	80-120	1	30
trans-1,2-Dichloroethene	6.0	U	6.0	200	ug/kg	102	105	79-120	3	30
1,2-Dichloropropane	8.5	U	8.5	200	ug/kg	100	101	80-120	0	30
1,3-Dichloropropane	4.0	U	4.0	200	ug/kg	97	95	80-120	2	30
2,2-Dichloropropane	8.5	U	8.5	200	ug/kg	99	103	72-123	4	30
1,1-Dichloropropene	6.5	U	6.5	200	ug/kg	97	102	77-120	5	30
cis-1,3-Dichloropropene	8.0	U	8.0	200	ug/kg	101	100	80-120	1	30
trans-1,3-Dichloropropene	8.5	U	8.5	200	ug/kg	90	89	77-120	1	30
Ethylbenzene	3.0	U	3.0	200	ug/kg	92	93	80-120	1	30
Freon 113	5.5	U	5.5	200	ug/kg	108	122	61-126	13	30
Freon 133a	25	U	25.	250	ug/kg	81	104	78-120	25	30
Hexachlorobutadiene	7.0	U	7.0	200	ug/kg	69	76	57-120	9	30
2-Hexanone	80	U	80.	400	ug/kg	55	55	45-155	1	30
Isopropylbenzene	3.0	U	3.0	200	ug/kg	90	93	76-120	3	30
p-Isopropyltoluene	5.5	U	5.5	200	ug/kg	86	88	75-120	2	30
Methyl Tertiary Butyl Ether	11	U	11.	200	ug/kg	104	101	74-121	3	30
4-Methyl-2-pentanone	20	U	20.	400	ug/kg	74	74	61-134	0	30
Methylene Chloride	12	U	12.	200	ug/kg	106	104	76-124	2	30
n-Propylbenzene	3.5	U	3.5	200	ug/kg	86	87	77-120	1	30
Styrene	5.0	U	5.0	200	ug/kg	97	97	76-120	1	30
1,1,1,2-Tetrachloroethane	5.5	U	5.5	200	ug/kg	95	95	80-120	0	30
1,1,2,2-Tetrachloroethane	12	U	12.	200	ug/kg	90	87	71-123	3	30
Tetrachloroethene	10	U	10.	200	ug/kg	92	94	77-120	2	30
Toluene	4.0	U	4.0	200	ug/kg	95	95	80-120	0	30
1,2,3-Trichlorobenzene	7.0	U	7.0	200	ug/kg	72	75	64-120	3	30
1,2,4-Trichlorobenzene	9.0	U	9.0	200	ug/kg	75	78	68-120	3	30
1,1,1-Trichloroethane	10	U	10.	200	ug/kg	99	101	71-125	2	30
1,1,2-Trichloroethane	14	U	14.	200	ug/kg	96	94	80-120	2	30
Trichloroethene	7.5	U	7.5	200	ug/kg	98	100	80-120	2	30
Trichlorofluoromethane	15	U	15.	200	ug/kg	92	102	58-133	10	30
1,2,3-Trichloropropane	17	U	17.	200	ug/kg	92	91	71-123	1	30
1,2,4-Trimethylbenzene	20	U	20.	200	ug/kg	90	88	79-120	2	30
1,3,5-Trimethylbenzene	5.0	U	5.0	200	ug/kg	89	90	78-120	1	30
Vinyl Chloride	10	U	10.	200	ug/kg	80	89	53-120	11	30
m+p-Xylene	8.5	U	8.5	200	ug/kg	94	96	80-120	2	30
o-Xylene	8.5	U	8.5	200	ug/kg	96	95	80-120	1	30
Batch number: Y111081AA	Sample number(s): 6255768									
Acetone	6	U	6.	20	ug/l	117	117	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	104	104	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	101	101	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	111	109	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	98	95	80-120	2	30
Bromoform	1	U	1.	5	ug/l	79	79	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	93	90	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	115	115	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	96	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	98	98	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	107	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	81	80	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	99	100	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	108	107	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	96	94	60-129	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chlorotoluene	1	U	1.	5	ug/l	99	98	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	98	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	105	104	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	81	82	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	93	93	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	103	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	105	104	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	99	100	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	98	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	92	91	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	102	79-120	0	30
1,2-Dichloroethane	1	U	1.	5	ug/l	117	117	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	102	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	101	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	99	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	103	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	89	90	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	103	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	92	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	86	88	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	100	79-120	0	30
Freon 113	2	U	2.	10	ug/l	115	114	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	123*	124*	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	84	86	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	104	105	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	100	101	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	97	98	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	101	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	100	103	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	107	104	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	100	100	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	95	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	102	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	101	101	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	92	93	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	86	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	104	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	102	103	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	104	102	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	116	114	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	102	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	97	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	101	99	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	88	88	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	101	100	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
Batch number: 11103SLB026	Sample number(s): 6255759-6255763,6255765-6255767									
Acenaphthene	33	U	33.	170	ug/kg	99		76-111		
Acenaphthylene	33	U	33.	170	ug/kg	100		75-122		
Aniline	170 U		170.	500	ug/kg	57		34-94		
Anthracene	33	U	33.	170	ug/kg	98		76-112		
Benzidine	1,200		1,200.	3,300	ug/kg	29		15-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(a)anthracene	33 U	U	33.	170	ug/kg	99		73-112		
Benzo(a)pyrene	33 U	U	33.	170	ug/kg	98		69-122		
Benzo(b)fluoranthene	33 U	U	33.	170	ug/kg	97		61-127		
Benzo(g,h,i)perylene	33 U	U	33.	170	ug/kg	98		65-122		
Benzo(k)fluoranthene	33 U	U	33.	170	ug/kg	94		67-125		
Benzoic acid	170 U		170.	500	ug/kg	96		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	33 U	U	33.	170	ug/kg	96		79-117		
Butylbenzylphthalate	67 U	U	67.	170	ug/kg	106		75-115		
Di-n-butylphthalate	67 U	U	67.	170	ug/kg	105		79-112		
Carbazole	33 U	U	33.	170	ug/kg	102		77-113		
4-Chloro-3-methylphenol	67 U	U	67.	170	ug/kg	100		74-119		
4-Chloroaniline	67 U	U	67.	170	ug/kg	28		10-110		
bis(2-Chloroethoxy)methane	33 U	U	33.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	33 U	U	33.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	33 U	U	33.	170	ug/kg	85		68-131		
2-Chloronaphthalene	33 U	U	33.	170	ug/kg	94		49-128		
2-Chlorophenol	33 U	U	33.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33 U	U	33.	170	ug/kg	99		79-110		
Chrysene	33 U	U	33.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	33 U	U	33.	170	ug/kg	98		70-128		
Dibenzofuran	33 U	U	33.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	33 U	U	33.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	33 U	U	33.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	33 U	U	33.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	56		24-101		
2,4-Dichlorophenol	33 U	U	33.	170	ug/kg	102		75-111		
Diethylphthalate	67 U	U	67.	170	ug/kg	104		76-111		
2,4-Dimethylphenol	67 U	U	67.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33 U	U	33.	170	ug/kg	100		70-130		
Dimethylphthalate	67 U	U	67.	170	ug/kg	99		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	86		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	91		37-120		
2,4-Dinitrotoluene	67 U	U	67.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	33 U	U	33.	170	ug/kg	102		79-115		
1,2-Diphenylhydrazine	33 U	U	33.	170	ug/kg	101		77-111		
bis(2-Ethylhexyl)phthalate	67 U	U	67.	330	ug/kg	110		75-117		
Fluoranthene	33 U	U	33.	170	ug/kg	105		78-116		
Fluorene	33 U	U	33.	170	ug/kg	103		75-116		
Hexachlorobenzene	33 U	U	33.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67 U	U	67.	170	ug/kg	85		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	78		46-115		
Hexachloroethane	33 U	U	33.	170	ug/kg	82		68-105		
Indeno(1,2,3-cd)pyrene	33 U	U	33.	170	ug/kg	96		64-119		
Isophorone	33 U	U	33.	170	ug/kg	92		69-110		
1-Methylnaphthalene	33 U	U	33.	170	ug/kg	97		74-105		
2-Methylnaphthalene	33 U	U	33.	170	ug/kg	90		76-105		
2-Methylphenol	67 U	U	67.	170	ug/kg	96		66-110		
4-Methylphenol	67 U	U	67.	170	ug/kg	104		66-117		
Naphthalene	33 U	U	33.	170	ug/kg	91		73-106		
2-Nitroaniline	33 U	U	33.	170	ug/kg	102		78-116		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3-Nitroaniline	67	U	67.	170	ug/kg	86		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	95		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	95		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	100		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	82		63-107		
N-Nitrosodimethylamine	67	U	67.	170	ug/kg	80		60-106		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	100		67-141		
Di-n-octylphthalate	67	U	67.	170	ug/kg	106		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	78		51-117		
Phenanthrene	33	U	33.	170	ug/kg	99		77-113		
Phenol	33	U	33.	170	ug/kg	97		58-112		
Pyrene	33	U	33.	170	ug/kg	100		75-115		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 11103SLC026	Sample number(s): 6255759-6255763,6255765-6255767									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	97		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	76		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	89		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	75		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	113		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	107		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	86		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	120		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	86		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	47*		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	97		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		56-121		
Batch number: 11108SLA026	Sample number(s): 6255759-6255763,6255765-6255767									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	90		70-130		
Batch number: 11101A34B	Sample number(s): 6255759-6255763,6255765-6255767									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	82	75	67-119	9	30
Batch number: 11104A20A	Sample number(s): 6255768									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 111080010A	Sample number(s): 6255759-6255763,6255765-6255767									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	119		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	117		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
HMX	100 U		100.	300	ug/kg	109		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	96		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	117		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	111		80-120		
PETN	800 U		800.	2,400	ug/kg	126*		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	86		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	119		80-120		
Batch number: 111150004A	Sample number(s): 6255759-6255763,6255765-6255767									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	98		80-126		
Batch number: 111040008A	Sample number(s): 6255759-6255763,6255765-6255767									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	87	81	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	87		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	100		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111110015A	Sample number(s): 6255759-6255763,6255765-6255767									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	110		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	113		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	112		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	108		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	77		66-113		
Batch number: 111030027A	Sample number(s): 6255759-6255763,6255765-6255767									
Diethylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	102		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Batch number: 111030032A	Sample number(s): 6255759-6255763,6255765-6255767									
Ethanol	100 U		100.	500	ug/kg	86		71-129		
Isopropanol	100 U		100.	500	ug/kg	91		75-125		
Methanol	100 U		100.	500	ug/kg	84		68-129		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111040022A	Sample number(s): 6255759-6255763,6255765-6255767									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 111021026001A	Sample number(s): 6255759-6255767									
Antimony	0.0600	U	0.0600	0.200	mg/kg	177		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.162	J	0.0660	0.400	mg/kg	105		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	100		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	101		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	106		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	102		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	114		87-117		
Zinc	0.560	U	0.560	3.00	mg/kg	101		81-112		
Batch number: 111021026001B	Sample number(s): 6255759-6255767									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		83-111		
Batch number: 111021026001C	Sample number(s): 6255759-6255767									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	117		78-122		
Batch number: 111021026001D	Sample number(s): 6255759-6255767									
Barium	0.108	U	0.108	0.400	mg/kg	115*		81-111		
Batch number: 111025708001	Sample number(s): 6255759-6255767									
Aluminum	29.3		5.03	20.0	mg/kg	89		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	91		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	105		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	103		61-110		
Lithium	0.33	J	0.22	2.0	mg/kg	98		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	100		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	103		89-112		
Phosphorus	1.22	J	0.560	10.0	mg/kg	99		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	98		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	101		86-110		
Tin	1.28	J	1.00	10.0	mg/kg	104		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	96		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	105		80-120		
Batch number: 111025711002	Sample number(s): 6255759-6255767									
Mercury	0.0028	U	0.0028	0.0978	mg/kg	95		88-123		
Batch number: 11110495201A	Sample number(s): 6255759-6255760,6255765-6255767									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11110495201B	Sample number(s): 6255761-6255762,6255764									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11111102201A	Sample number(s): 6255759-6255762,6255764-6255767									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11111243201A	Sample number(s): 6255759-6255762,6255764-6255767									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	97		80-120		
Batch number: 11112112201A	Sample number(s): 6255759-6255762,6255764-6255767									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11103039402A	Sample number(s): 6255759-6255761,6255764-6255767									
18a pH by 9045C						100		95-105		
Batch number: 11109182101A	Sample number(s): 6255759-6255761,6255764-6255767									
32a OR Potential						100		98-102		
Batch number: 11126162401A	Sample number(s): 6255759-6255767									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111032AA	Sample number(s): 6255759-6255763,6255765-6255766 UNSPK: 6255761								
Acetone	76	75	15-210	3	30				
Benzene	110	113	55-143	1	30				
Bromobenzene	108	113	43-139	2	30				
Bromochloromethane	120	118	60-137	4	30				
Bromodichloromethane	96	98	53-136	0	30				
Bromoform	86	86	38-124	2	30				
Bromomethane	78	77	42-168	4	30				
2-Butanone	81	80	37-163	2	30				
n-Butylbenzene	110	119	30-146	6	30				
sec-Butylbenzene	118	126	33-157	5	30				
tert-Butylbenzene	110	115	41-152	3	30				
Carbon Tetrachloride	102	105	45-153	1	30				
Chlorobenzene	104	108	49-135	2	30				
Chloroethane	81	81	39-152	2	30				
2-Chloroethyl Vinyl Ether	72	74	32-139	0	30				
Chloroform	104	107	61-142	1	30				
Chloromethane	96	97	51-163	1	30				
2-Chlorotoluene	110	114	42-146	2	30				
4-Chlorotoluene	108	115	39-145	4	30				
Chlorotrifluoroethene	92	89	70-130	11	30				
1,2-Dibromo-3-chloropropane	81	84	30-139	1	30				
Dibromochloromethane	90	93	51-128	1	30				
1,2-Dibromoethane	97	99	54-129	0	30				
Dibromomethane	94	95	57-130	1	30				
1,2-Dichlorobenzene	101	105	36-133	3	30				
1,3-Dichlorobenzene	104	110	34-134	4	30				
1,4-Dichlorobenzene	104	108	35-136	3	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dichlorodifluoromethane	86	89	26-151	1	30				
1,1-Dichloroethane	105	109	63-142	1	30				
1,2-Dichloroethane	94	96	68-131	0	30				
1,1-Dichloroethene	118	118	61-149	2	30				
cis-1,2-Dichloroethene	107	111	60-136	1	30				
trans-1,2-Dichloroethene	110	114	59-142	2	30				
1,2-Dichloropropane	104	106	62-135	1	30				
1,3-Dichloropropane	98	100	58-129	1	30				
2,2-Dichloropropane	95	98	53-147	1	30				
1,1-Dichloropropene	109	109	54-145	1	30				
cis-1,3-Dichloropropene	97	99	51-131	1	30				
trans-1,3-Dichloropropene	89	91	49-129	1	30				
Ethylbenzene	107	110	44-141	2	30				
Freon 113	124	124	56-156	2	30				
Freon 133a	114	113	61-131	8	30				
Hexachlorobutadiene	95	112	10-155	15	30				
2-Hexanone	84	85	32-160	1	30				
Isopropylbenzene	109	113	38-144	2	30				
p-Isopropyltoluene	112	119	29-152	5	30				
Methyl Tertiary Butyl Ether	92	93	55-129	1	30				
4-Methyl-2-pentanone	85	83	46-139	4	30				
Methylene Chloride	106	125	61-141	14	30				
n-Propylbenzene	119	124	39-157	2	30				
Styrene	99	104	35-134	3	30				
1,1,1,2-Tetrachloroethane	98	100	52-130	0	30				
1,1,2,2-Tetrachloroethane	96	98	40-152	0	30				
Tetrachloroethene	109	113	42-149	1	30				
Toluene	108	111	50-146	2	30				
1,2,3-Trichlorobenzene	93	102	10-140	8	30				
1,2,4-Trichlorobenzene	91	98	10-136	7	30				
1,1,1-Trichloroethane	106	106	64-142	1	30				
1,1,2-Trichloroethane	99	99	54-139	2	30				
Trichloroethene	106	108	53-144	0	30				
Trichlorofluoromethane	98	99	47-163	0	30				
1,2,3-Trichloropropane	97	97	45-154	2	30				
1,2,4-Trimethylbenzene	108	114	37-149	3	30				
1,3,5-Trimethylbenzene	112	117	38-150	3	30				
Vinyl Chloride	98	99	50-154	0	30				
m+p-Xylene	106	109	44-137	1	30				
o-Xylene	102	105	42-137	1	30				
Batch number: E111031AA	Sample number(s): 6255768 UNSPK: P252090								
1,4-Dioxane	105	105	73-138	0	30				
Batch number: E111041AA	Sample number(s): 6255759-6255763,6255765-6255767 UNSPK: 6255761								
1,4-Dioxane	89	98	70-130	13	30				
Batch number: 11103SLB026	Sample number(s): 6255759-6255763,6255765-6255767 UNSPK: 6255761								
Acenaphthene	95	91	75-115	4	30				
Acenaphthylene	96	91	81-110	5	30				
Aniline	62	61	35-95	1	30				
Anthracene	95	94	75-115	1	30				
Benzidine	15*	21*	35-141	37*	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)anthracene	97	92	65-122	4	30				
Benzo(a)pyrene	95	91	57-126	4	30				
Benzo(b)fluoranthene	91	86	59-125	5	30				
Benzo(g,h,i)perylene	96	90	59-127	7	30				
Benzo(k)fluoranthene	95	91	56-132	4	30				
Benzoic acid	96	79	10-173	19	30				
Benzyl alcohol	92	90	67-115	1	30				
4-Bromophenyl-phenylether	91	87	67-129	4	30				
Butylbenzylphthalate	108	105	73-134	3	30				
Di-n-butylphthalate	101	97	67-123	3	30				
Carbazole	97	93	64-120	4	30				
4-Chloro-3-methylphenol	98	94	76-110	3	30				
4-Chloroaniline	42	44	23-95	6	30				
bis(2-Chloroethoxy)methane	93	88	75-104	4	30				
bis(2-Chloroethyl)ether	90	85	60-116	5	30				
bis(2-Chloroisopropyl)ether	82	80	55-142	2	30				
2-Chloronaphthalene	93	88	50-141	4	30				
2-Chlorophenol	96	95	73-121	1	30				
4-Chlorophenyl-phenylether	95	90	80-109	5	30				
Chrysene	95	90	62-128	5	30				
Dibenz(a,h)anthracene	97	90	65-125	7	30				
Dibenzofuran	96	93	71-112	3	30				
1,2-Dichlorobenzene	79	79	66-108	0	30				
1,3-Dichlorobenzene	79	77	63-109	2	30				
1,4-Dichlorobenzene	80	78	70-100	2	30				
3,3'-Dichlorobenzidine	74	72	16-119	3	30				
2,4-Dichlorophenol	99	96	78-117	3	30				
Diethylphthalate	98	92	66-118	6	30				
2,4-Dimethylphenol	94	94	78-110	0	30				
3,5-Dimethylphenol	99	95	70-130	4	30				
Dimethylphthalate	93	89	64-118	4	30				
4,6-Dinitro-2-methylphenol	62	50	24-116	21	30				
2,4-Dinitrophenol	57	37	20-143	41*	30				
2,4-Dinitrotoluene	98	92	73-113	7	30				
2,6-Dinitrotoluene	97	91	69-123	6	30				
1,2-Diphenylhydrazine	98	95	71-129	3	30				
bis(2-Ethylhexyl)phthalate	111	106	63-122	4	30				
Fluoranthene	99	94	73-112	5	30				
Fluorene	100	94	77-111	5	30				
Hexachlorobenzene	93	89	77-114	4	30				
Hexachlorobutadiene	85	79	62-120	7	30				
Hexachlorocyclopentadiene	54	43	10-153	24	30				
Hexachloroethane	77	75	57-109	2	30				
Indeno(1,2,3-cd)pyrene	95	90	61-126	6	30				
Isophorone	92	86	73-102	6	30				
1-Methylnaphthalene	96	93	73-112	3	30				
2-Methylnaphthalene	89	86	76-114	4	30				
2-Methylphenol	95	96	75-111	1	30				
4-Methylphenol	103	101	71-111	2	30				
Naphthalene	89	86	72-116	3	30				
2-Nitroaniline	99	96	67-125	3	30				
3-Nitroaniline	92	88	59-122	4	30				
4-Nitroaniline	73	78	52-112	7	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nitrobenzene	93	88	72-106	5	30				
2-Nitrophenol	92	86	74-115	6	30				
4-Nitrophenol	95	90	54-113	5	30				
N-Nitroso-di-n-propylamine	74	83	60-116	13	30				
N-Nitrosodimethylamine	69	76	47-116	11	30				
N-Nitrosodiphenylamine	97	95	86-145	2	30				
Di-n-octylphthalate	105	99	56-126	5	30				
Pentachlorophenol	75	73	28-127	2	30				
Phenanthrene	95	92	65-125	2	30				
Phenol	96	93	58-126	2	30				
Pyrene	102	97	74-126	4	30				
1,2,4-Trichlorobenzene	90	85	72-115	5	30				
2,4,5-Trichlorophenol	97	95	78-109	2	30				
2,4,6-Trichlorophenol	97	92	77-115	5	30				
Batch number: 11103SLC026	Sample number(s): 6255759-6255763,6255765-6255767 UNSPK: 6255761								
Acenaphthene	97	138*	63-105	34*	30				
Acenaphthylene	96	110	67-114	13	30				
Anthracene	100	145*	60-122	34*	30				
Benzo(a)anthracene	94	89	59-128	6	30				
Benzo(a)pyrene	75	74	45-138	3	30				
Benzo(b)fluoranthene	89	81	43-155	10	30				
Benzo(g,h,i)perylene	77	11*	33-141	59*	30				
Benzo(k)fluoranthene	73	75	42-144	1	30				
Butylbenzylphthalate	119	115	57-173	4	30				
Di-n-butylphthalate	87	88	65-148	1	30				
Chrysene	94	91	48-134	4	30				
Dibenz(a,h)anthracene	83	82	22-133	2	30				
Diethylphthalate	78	79	70-136	0	30				
Dimethylphthalate	97	102	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	102	104	39-167	0	30				
Fluoranthene	107	111	26-166	2	30				
Fluorene	93	120	66-122	24	30				
Indeno(1,2,3-cd)pyrene	76	57	21-143	20	30				
1-Methylnaphthalene	93	135*	72-123	36*	30				
2-Methylnaphthalene	82	99	64-103	18	30				
Naphthalene	89	113*	61-102	23	30				
N-Nitrosodimethylamine	52	49	48-113	5	30				
Di-n-octylphthalate	93	89	40-192	6	30				
Phenanthrene	92	117	12-165	22	30				
Pyrene	102	90	15-153	10	30				
Batch number: 11108SLA026	Sample number(s): 6255759-6255763,6255765-6255767 UNSPK: 6255761								
N-Nitrosodimethylamine	34*	52*	70-130	38*	30				
Batch number: 11101A34B	Sample number(s): 6255759-6255763,6255765-6255767 UNSPK: 6255761								
9a TPH by EPA 8015B Gas C5-C12	55	72	39-118	26	30				
Batch number: 111080010A	Sample number(s): 6255759-6255763,6255765-6255767 UNSPK: 6255761								
4-Amino-2,6-Dinitrotoluene	89	105	80-127	17	50				
2-Amino-4,6-Dinitrotoluene	90	104	80-137	15	50				
1,3-Dinitrobenzene	65	80	38-166	19	50				
2,4-Dinitrotoluene	78*	91	80-131	15	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,6-Dinitrotoluene	86	100	80-127	15	50				
HMX	86	105	63-128	20	50				
Nitrobenzene	91	101	80-125	10	50				
Nitroglycerin	84	100	80-120	17	50				
2-Nitrotoluene	95	107	80-122	12	50				
3-Nitrotoluene	98	111	72-119	12	50				
4-Nitrotoluene	94	107	80-125	12	50				
PETN	102	122*	80-121	17	50				
RDX	108	118	75-129	9	50				
Tetryl	47*	57	55-174	19	50				
1,3,5-Trinitrobenzene	47*	65*	82-126	33	50				
2,4,6-Trinitrotoluene	53*	74*	82-130	32	50				
Batch number: 111150004A	Sample number(s): 6255759-6255763,6255765-6255767 UNSPK: 6255761								
25a Formaldehyde 8315A	88	97	80-120	3	50				
Batch number: 111040008A	Sample number(s): 6255759-6255763,6255765-6255767 UNSPK: 6255761								
PCB-1016	76	91	29-146	18	50				
PCB-1260	103	106	39-149	3	50				
Batch number: 111110015A	Sample number(s): 6255759-6255763,6255765-6255767 UNSPK: 6255761								
EFH (C12-C14)	224*	113	49-123	66*	20				
EFH (C15-C20)	165*	137*	49-123	14	20				
EFH (C21-C30)	144*	153*	49-123	6	20				
EFH (C30 - C40)	95	96	49-123	1	20				
EFH (C8-C11)	93	82	49-123	12	20				
Batch number: 111030027A	Sample number(s): 6255759-6255763,6255765-6255767 UNSPK: 6255761								
Diethylene glycol	94	88	59-109	7	20				
Ethylene glycol	92	82	63-107	11	20				
Propylene glycol	96	81	63-107	18	20				
Batch number: 111030032A	Sample number(s): 6255759-6255763,6255765-6255767 UNSPK: 6255761								
Ethanol	66	64	48-130	2	20				
Isopropanol	70	72	12-149	3	20				
Methanol	65	52	43-138	22*	20				
Batch number: 111040022A	Sample number(s): 6255759-6255763,6255765-6255767 UNSPK: 6255761								
m-Terphenyl	80	79	75-125	1	20				
o-Terphenyl	92	95	75-125	2	20				
p-Terphenyl	75	76	75-125	0	20				
Batch number: 111021026001A	Sample number(s): 6255759-6255767 UNSPK: 6255761 BKG: 6255761								
Antimony	90	73*	75-125	16	20	0.0837 J	0.150 J	57* (1)	20
Arsenic	126*	122	75-125	0	20	2.59	2.44	6	20
Beryllium	117	110	75-125	2	20	0.428	0.430	0 (1)	20
Cadmium	123	107	75-125	10	20	0.141	0.170	18 (1)	20
Chromium	131*	127*	75-125	0	20	12.6	12.7	1	20
Cobalt	112	101	75-125	7	20	4.55	4.69	3	20
Copper	133*	124	75-125	2	20	8.73	9.43	8	20
Lead	151*	150*	75-125	1	20	4.19	4.36	4	20
Nickel	134*	127*	75-125	2	20	8.70	8.75	1	20
Silver	110	101	75-125	6	20	0.0239 J	0.0237 J	1 (1)	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Thallium	133*	112	75-125	10	20	0.215	0.245	13 (1)	20
Vanadium	160*	177*	75-125	5	20	22.7	24.3	7	20
Zinc	180 (2)	185 (2)	75-125	2	20	45.9	47.7	4	20
Batch number: 111021026001B	Sample number(s): 6255759-6255767 UNSPK: 6255761 BKG: 6255761								
Selenium	108	97	75-125	7	20	0.104 J	0.0963 J	8 (1)	20
Batch number: 111021026001C	Sample number(s): 6255759-6255767 UNSPK: 6255761 BKG: 6255761								
Molybdenum	112	100	75-125	8	20	0.355	0.441	21* (1)	20
Batch number: 111021026001D	Sample number(s): 6255759-6255767 UNSPK: 6255761 BKG: 6255761								
Barium	311 (2)	98 (2)	75-125	17	20	96.3	97.8	2	20
Batch number: 111025708001	Sample number(s): 6255759-6255767 UNSPK: 6255761 BKG: 6255761								
Aluminum	2160 (2)	1678 (2)	75-125	6	20	12,700	12,000	5	20
Boron	95	96	84-115	2	20	2.32 J	2.52 J	9 (1)	20
Calcium	135 (2)	136 (2)	75-125	0	20	1,900	1,800	6	20
Iron	373 (2)	-1674 (2)	75-125	12	20	17,900	15,800	12	20
Lithium	103	104	82-114	1	20	17.3	16.7	4	20
Magnesium	205 (2)	125 (2)	75-125	4	20	3,430	3,270	5	20
Manganese	115 (2)	95 (2)	75-125	4	20	225	218	3	20
Phosphorus	73*	52*	75-125	6	20	289	261	10	20
Potassium	120	135*	75-125	4	20	2,920	3,000	3	20
Sodium	98	98	75-125	0	20	113	108	5 (1)	20
Strontium	97	98	75-115	1	20	18.7	17.5	6	20
Tin	89	90	80-110	1	20	2.53 J	2.42 J	5 (1)	20
Titanium	265 (2)	262 (2)	75-125	0	20	1,010	986	2	20
Zirconium	98	100	75-125	2	20	4.09 J	3.25 J	23* (1)	20
Batch number: 111025711002	Sample number(s): 6255759-6255767 UNSPK: 6255761 BKG: 6255761								
Mercury	93	94	65-135	2	20	0.0028 U	0.0027 U	0 (1)	20
Batch number: 11110495201A	Sample number(s): 6255759-6255760,6255765-6255767 UNSPK: P253025 BKG: P253025								
11a Anions by 300.0 - Fluoride	85		80-120			1.2	1.4	11 (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			1.6	1.4 J	16 (1)	20
Batch number: 11110495201B	Sample number(s): 6255761-6255762,6255764 UNSPK: 6255761 BKG: 6255761								
11a Anions by 300.0 - Fluoride	70*		80-120			2.7	3.2	18 (1)	20
11a Anions by 300.0 - Nitrate	96		80-120			1.1 J	1.1 J	1 (1)	20
Batch number: 11111102201A	Sample number(s): 6255759-6255762,6255764-6255767 UNSPK: 6255761 BKG: 6255761								
17a Cyanide by 9012B	105		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11111243201A	Sample number(s): 6255759-6255762,6255764-6255767 UNSPK: 6255761 BKG: 6255761								
3a Cr VI by EPA 7199	84		75-125			0.20 U	0.60 J	200* (1)	20
Batch number: 11112112201A	Sample number(s): 6255759-6255762,6255764-6255767 UNSPK: 6255761 BKG: 6255761								
7a Perchlorate EPA 314.0	106		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11103039402A	Sample number(s): 6255759-6255761,6255764-6255767 BKG: 6255761								
18a pH by 9045C						7.13	7.10	0	1

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11109182101A	Sample number(s): 6255759-6255761,6255764-6255767					BKG: 6255761			
32a OR Potential						143	144	1	6
Batch number: 11126162401A	Sample number(s): 6255759-6255767					BKG: 6255761			
28a Moisture Content by 160.3						15.3	14.3	6	20
Moisture Content by 160.3						15.3	14.3	6	20
Moisture Content by 160.3						15.3	14.3	6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111032AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6255759	97	98	99	94
6255760	96	97	101	88
6255761	95	97	99	91
6255762	97	96	100	96
6255763	96	97	101	96
6255765	96	99	99	93
6255766	100	104	108	86
Blank	98	98	98	92
LCS	99	102	100	96
MS	97	96	100	96
MSD	96	97	101	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111031AA

	Toluene-d8
6255768	101
Blank	101
LCS	101
MS	101
MSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111041AA

	Toluene-d8
6255759	97
6255760	96

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Surrogate Quality Control

6255761	97
6255762	96
6255763	96
6255765	96
6255766	113
6255767	183*
Blank	97
LCS	98
LCSD	98
MS	96
MSD	96
Limits:	70-130

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: R111051AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6255767	87	90	85	95
Blank	95	100	87	86
LCS	94	96	86	89
LCSD	93	95	84	85
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111081AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6255768	105	104	102	93
Blank	106	101	102	94
LCS	105	103	105	100
LCSD	104	102	104	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11103SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6255759	97	98	94	86	84	90
6255760	95	97	95	85	84	87
6255761	95	97	97	87	85	90
6255762	92	95	94	88	87	87
6255763	91	93	92	83	83	85
6255765	95	98	98	87	85	92
6255766	67	70	58	68	68	59
6255767	79	82	66	86	80	70
Blank	88	94	90	87	87	79
LCS	96	99	103	90	92	87
MS	92	95	94	88	87	87
MSD	91	93	92	83	83	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11103SLC026

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Surrogate Quality Control

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6255759	88	84	102
6255760	92	86	93
6255761	93	86	106
6255762	98	89	108
6255763	99	94	114
6255765	94	87	96
6255766	817*	109	103
6255767	4838*	392*	125
Blank	102	99	118
LCS	97	93	103
MS	98	89	108
MSD	99	94	114
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11108SLA026

	N-Nitrosodimethylamine-d6
6255759	101
6255760	144
6255761	144
6255762	170*
6255763	111
6255765	89
6255766	88
6255767	92
Blank	86
LCS	86
MS	170*
MSD	111
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11101A34B

	Trifluorotoluene-F
6255759	78
6255760	78
6255761	80
6255762	74
6255763	83
6255765	76
6255766	0*
6255767	82
Blank	82
LCS	98
LCSD	91
MS	74
MSD	83
Limits:	61-122

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Surrogate Quality Control

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11104A20A

	Trifluorotoluene-F
6255768	85
Blank	85
LCS	116
LCSD	115
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111040008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6255759	76	93
6255760	76	101
6255761	72	96
6255762	74	93
6255763	76	100
6255765	82	102
6255766	69	92
6255767	44*	97
Blank	86	104
LCS	82	99
LCSD	81	103
MS	74	93
MSD	76	100
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111080010A

	2-Nitro-m-xylene
6255759	111
6255760	111
6255761	108
6255762	90
6255763	112
6255765	106
6255766	117
6255767	93
Blank	113
LCS	118
LCSD	110
MS	90
MSD	112
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111150004A

	Butyraldehyde
6255759	94
6255760	86

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Surrogate Quality Control

6255761	94
6255762	96
6255763	95
6255765	88
6255766	99
6255767	101
Blank	100
LCS	101
MS	96
MSD	95

Limits: 64-126

Analysis Name: 21a Glycols by 8015B
Batch number: 111030027A

Tetramethylene glycol

6255759	80
6255760	85
6255761	84
6255762	109
6255763	84
6255765	87
6255766	86
6255767	85
Blank	114
LCS	106
MS	109
MSD	84

Limits: 29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111030032A

Acetone

6255759	76
6255760	75
6255761	77
6255762	74
6255763	75
6255765	76
6255766	74
6255767	74
Blank	90
LCS	90
MS	74
MSD	75

Limits: 42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111040022A

n-Triacontane-d62

6255759	73
6255760	79

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241638
Reported: 05/23/11 at 01:39 PM

Surrogate Quality Control

6255761	73
6255762	70
6255763	83
6255765	77
6255766	58
6255767	85
Blank	82
LCS	77
MS	70
MSD	83
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111110015A

	Chlorobenzene	Orthoterphenyl
6255759	80	78
6255760	88	83
6255761	89	85
6255762	71	95
6255763	80	102
6255765	85	81
6255766	110	9*
6255767	155*	204*
Blank	89	78
LCS	76	101
MS	71	95
MSD	80	102
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1241638 6255759-68

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
DUP-13-SA5A-QC-041111	04.11.11	1551	SOIL	NONE	5-Encores										X	X	X										
DUP-13-SA5A-QC-041111	04.11.11	1551	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-186-SA5A-SB-4.0	04.11.11	1255	SOIL	NONE	5-Encores										X	X	X										
SL-186-SA5A-SB-3.5-4.5	04.11.11	1301	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-187-SA5A-SB-4.5MS	04.11.11	1540	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-187-SA5A-SB-4.5MS	04.11.11	1548	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-188-SA5A-SB-5.0	04.11.11	1142	SOIL	NONE	5-Encores										X	X	X										
SL-188-SA5A-SB-4.5-5.5	04.11.11	1154	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-189-SA5A-SB-5.5	04.11.11	1005	SOIL	NONE	5-Encores										X	X	X										CAUTION - SAMPLES HAD HIGH
SL-189-SA5A-SB-5.0-6.0	04.11.11	1012	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	PHOTOIONIZATION
SL-189-SA5A-SB-9.0	04.11.11	1018	SOIL	NONE	5-Encores										X	X	X										INSTRUMENT
SL-189-SA5A-SB-8.5-9.5	04.11.11	1023	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MEASUREMENTS
TB-041111	04.11.11	1700	WATER	HCl	4-40 mL VOA VIALS																						TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/11/2011 / 1700		Received for Laboratory by: (Signature)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8695 1432 3596; 8596 1432 3600 8695 1432 3611; 8596 1432 3780																								

4/11/11 1020

→ Sample ID was updated to SL-187-SA5A-SB-4.0-5.0MS/MSD per PB, NM 4/17/11

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Wednesday, April 13, 2011 12:48 PM
To: Nicole Maljovec
Subject: RE: Correction to COC for 4/11/2011

Thank You.

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Wednesday, April 13, 2011 9:45 AM
To: Bloisa, Peggy
Subject: RE: Correction to COC for 4/11/2011

Will do!

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Tuesday, April 12, 2011 5:54 PM
To: Nicole Maljovec
Subject: Correction to COC for 4/11/2011

Hi Nicole – please correct sample ID SL-187-SA5A-SB-4.5MS (at 1548) – it should read as SL-187-SA5A-SB-4.0-5.0MS.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/14/2011
Group Number: 1242145
SDG: DX070
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP02-SA8N-QC-041311 Soil	6257895
SL-027-SA8N-SS-0.0-0.5 Soil	6257896
SL-027-SA8N-SS-0.0-0.5MS Soil	6257897
SL-027-SA8N-SS-0.0-0.5MSD Soil	6257898
SL-028-SA8N-SS-0.0-0.5 Soil	6257899
SL-032-SA8N-SS-0.0-0.5 Soil	6257900
SL-046-SA8N-SS-0.0-0.5 Soil	6257901
EB02-SA8N-SS-041311 Water	6257902
SL-060-SA5A-SB-4.0-5.0 Soil	6257903
SL-060-SA5A-SB-8.0-9.0 Soil	6257904
SL-061-SA5A-SB-4.0-5.0 Soil	6257905
SL-204-SA5A-SB-4.0-5.0 Soil	6257906
SL-205-SA5A-SB-4.0-5.0 Soil	6257907
SL-205-SA5A-SB-8.0-9.0 Soil	6257908

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **DUP02-SA8N-QC-041311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257895
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7001 SDG#: DX070-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP02-SA8N-QC-041311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257895
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7001 SDG#: DX070-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.358	JQ	0.0363	1.15	1
11031	12378-PeCDD	40321-76-4	1.18	JB	0.0562	5.74	1
11031	123478-HxCDD	39227-28-6	0.823	JB	0.0469	5.74	1
11031	123678-HxCDD	57653-85-7	3.10	JB	0.0478	5.74	1
11031	123789-HxCDD	19408-74-3	2.28	JB	0.0448	5.74	1
11031	1234678-HpCDD	35822-46-9	67.7	B	0.0677	5.74	1
11031	OCDD	3268-87-9	523	B	0.0670	11.5	1
11031	2378-TCDF	51207-31-9	1.24		0.103	1.15	1
11650	2378-TCDF-Conf	51207-31-9	1.23		0.103	1.15	1
11031	12378-PeCDF	57117-41-6	0.869	J	0.0363	5.74	1
11031	23478-PeCDF	57117-31-4	0.843	JB	0.0387	5.74	1
11031	123478-HxCDF	70648-26-9	1.59	JB	0.0441	5.74	1
11031	123678-HxCDF	57117-44-9	0.665	JB	0.0321	5.74	1
11031	123789-HxCDF	72918-21-9	0.270	J	0.0342	5.74	1
11031	234678-HxCDF	60851-34-5	0.676	JB	0.0329	5.74	1
11031	1234678-HpCDF	67562-39-4	7.56	B	0.0436	5.74	1
11031	1234789-HpCDF	55673-89-7	0.637	JB	0.0606	5.74	1
11031	OCDF	39001-02-0	18.7	B	0.0331	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-2378-TCDF-Conf	55	24 - 169
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP02-SA8N-QC-041311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257895
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7001 SDG#: DX070-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP02-SA8N-QC-041311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257895
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7001 SDG#: DX070-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 08:46	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11105002	04/22/2011 16:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257896
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257896
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.434	J	0.0261	1.15	1
11031	12378-PeCDD	40321-76-4	1.27	JB	0.0650	5.77	1
11031	123478-HxCDD	39227-28-6	0.989	JB	0.0804	5.77	1
11031	123678-HxCDD	57653-85-7	4.59	JB	0.0821	5.77	1
11031	123789-HxCDD	19408-74-3	2.45	JB	0.0768	5.77	1
11031	1234678-HpCDD	35822-46-9	104	B	0.136	5.77	1
11031	OCDD	3268-87-9	866	B	0.0849	11.5	1
11031	2378-TCDF	51207-31-9	1.43		0.0868	1.15	1
11650	2378-TCDF-Conf	51207-31-9	1.30		0.0413	1.15	1
11031	12378-PeCDF	57117-41-6	0.493	JB	0.0346	5.77	1
11031	23478-PeCDF	57117-31-4	0.993	JB	0.0368	5.77	1
11031	123478-HxCDF	70648-26-9	2.17	JB	0.0645	5.77	1
11031	123678-HxCDF	57117-44-9	1.09	JB	0.0558	5.77	1
11031	123789-HxCDF	72918-21-9	0.275	JBQ	0.0518	5.77	1
11031	234678-HxCDF	60851-34-5	0.966	JB	0.0430	5.77	1
11031	1234678-HpCDF	67562-39-4	24.4	B	0.0614	5.77	1
11031	1234789-HpCDF	55673-89-7	1.65	JB	0.0781	5.77	1
11031	OCDF	39001-02-0	72.7	B	0.0396	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-2378-TCDF-Conf	69	24 - 169
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257896
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257896
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118003	05/03/2011 10:01	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11118003	05/10/2011 03:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118003	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257897
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257897
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.7		0.0432	1.15	1
11031	12378-PeCDD	40321-76-4	118	B	0.0853	5.73	1
11031	123478-HxCDD	39227-28-6	122	B	0.0969	5.73	1
11031	123678-HxCDD	57653-85-7	120	B	0.102	5.73	1
11031	123789-HxCDD	19408-74-3	118	B	0.0940	5.73	1
11031	1234678-HpCDD	35822-46-9	201	B	0.129	5.73	1
11031	OCDD	3268-87-9	964	B	0.101	11.5	1
11031	2378-TCDF	51207-31-9	24.9		0.106	1.15	1
11031	12378-PeCDF	57117-41-6	116	B	0.0498	5.73	1
11031	23478-PeCDF	57117-31-4	115	B	0.0517	5.73	1
11031	123478-HxCDF	70648-26-9	120	B	0.0788	5.73	1
11031	123678-HxCDF	57117-44-9	117	B	0.0712	5.73	1
11031	123789-HxCDF	72918-21-9	115	B	0.0715	5.73	1
11031	234678-HxCDF	60851-34-5	117	B	0.0597	5.73	1
11031	1234678-HpCDF	67562-39-4	130	B	0.0697	5.73	1
11031	1234789-HpCDF	55673-89-7	118	B	0.0850	5.73	1
11031	OCDF	39001-02-0	277	B	0.0685	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257897
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257897
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118003	05/03/2011 10:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118003	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257898
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257898
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.0		0.0419	1.18	1
11031	12378-PeCDD	40321-76-4	120	B	0.0790	5.89	1
11031	123478-HxCDD	39227-28-6	121	B	0.138	5.89	1
11031	123678-HxCDD	57653-85-7	123	B	0.145	5.89	1
11031	123789-HxCDD	19408-74-3	121	B	0.136	5.89	1
11031	1234678-HpCDD	35822-46-9	191	B	0.146	5.89	1
11031	OCDD	3268-87-9	860	B	0.0906	11.8	1
11031	2378-TCDF	51207-31-9	25.5		0.123	1.18	1
11031	12378-PeCDF	57117-41-6	117	B	0.0547	5.89	1
11031	23478-PeCDF	57117-31-4	118	B	0.0555	5.89	1
11031	123478-HxCDF	70648-26-9	121	B	0.0787	5.89	1
11031	123678-HxCDF	57117-44-9	116	B	0.0662	5.89	1
11031	123789-HxCDF	72918-21-9	116	B	0.0743	5.89	1
11031	234678-HxCDF	60851-34-5	121	B	0.0671	5.89	1
11031	1234678-HpCDF	67562-39-4	128	B	0.0730	5.89	1
11031	1234789-HpCDF	55673-89-7	119	B	0.106	5.89	1
11031	OCDF	39001-02-0	269	B	0.0726	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257898
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257898
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118003	05/03/2011 16:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118003	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257899
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7003 SDG#: DX070-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-028-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257899
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7003 SDG#: DX070-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	3.11		0.145	1.19	1
11031	12378-PeCDD	40321-76-4	7.19	B	0.158	5.93	1
11031	123478-HxCDD	39227-28-6	5.22	JB	0.134	5.93	1
11031	123678-HxCDD	57653-85-7	17.0	B	0.138	5.93	1
11031	123789-HxCDD	19408-74-3	14.5	B	0.125	5.93	1
11031	1234678-HpCDD	35822-46-9	465	B	0.272	5.93	1
11031	OCDD	3268-87-9	5,190	EB	0.203	11.9	1
11031	2378-TCDF	51207-31-9	2.45		0.143	1.19	1
11650	2378-TCDF-Conf	51207-31-9	2.18		0.0801	1.19	1
11031	12378-PeCDF	57117-41-6	2.68	JB	0.0672	5.93	1
11031	23478-PeCDF	57117-31-4	3.43	JB	0.0692	5.93	1
11031	123478-HxCDF	70648-26-9	4.62	JB	0.0864	5.93	1
11031	123678-HxCDF	57117-44-9	2.95	JB	0.0808	5.93	1
11031	123789-HxCDF	72918-21-9	1.34	JB	0.0757	5.93	1
11031	234678-HxCDF	60851-34-5	2.59	JB	0.0650	5.93	1
11031	1234678-HpCDF	67562-39-4	26.9	B	0.0769	5.93	1
11031	1234789-HpCDF	55673-89-7	2.36	JB	0.0886	5.93	1
11031	OCDF	39001-02-0	64.8	B	0.0501	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-2378-TCDF-Conf	71	24 - 169
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257899
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7003 SDG#: DX070-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257899
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7003 SDG#: DX070-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118003	05/03/2011 12:50	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11118003	05/10/2011 04:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118003	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-032-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257900
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7004 SDG#: DX070-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257900
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7004 SDG#: DX070-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.448	J	0.0653	1.08	1
11031	12378-PeCDD	40321-76-4	2.09	JB	0.0771	5.38	1
11031	123478-HxCDD	39227-28-6	3.11	JB	0.0677	5.38	1
11031	123678-HxCDD	57653-85-7	17.7	B	0.0657	5.38	1
11031	123789-HxCDD	19408-74-3	8.29	B	0.0564	5.38	1
11031	1234678-HpCDD	35822-46-9	636	B	0.145	5.38	1
11031	OCDD	3268-87-9	3,680	B	0.0965	10.8	1
11031	2378-TCDF	51207-31-9	0.963	J	0.0855	1.08	1
11031	12378-PeCDF	57117-41-6	1.98	J	0.0299	5.38	1
11031	23478-PeCDF	57117-31-4	1.16	JB	0.0336	5.38	1
11031	123478-HxCDF	70648-26-9	1.90	JB	0.0659	5.38	1
11031	123678-HxCDF	57117-44-9	1.88	JB	0.0502	5.38	1
11031	123789-HxCDF	72918-21-9	0.625	J	0.0373	5.38	1
11031	234678-HxCDF	60851-34-5	2.35	JB	0.0349	5.38	1
11031	1234678-HpCDF	67562-39-4	32.8	B	0.0495	5.38	1
11031	1234789-HpCDF	55673-89-7	3.08	JB	0.0434	5.38	1
11031	OCDF	39001-02-0	75.9	B	0.0320	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257900
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7004 SDG#: DX070-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257900
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7004 SDG#: DX070-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 16:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257901
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7005 SDG#: DX070-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-046-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257901
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7005 SDG#: DX070-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0715	JQ	0.0425	1.09	1
11031	12378-PeCDD	40321-76-4	0.342	JBQ	0.0440	5.46	1
11031	123478-HxCDD	39227-28-6	0.458	JB	0.0445	5.46	1
11031	123678-HxCDD	57653-85-7	1.14	JBQ	0.0468	5.46	1
11031	123789-HxCDD	19408-74-3	1.01	JB	0.0436	5.46	1
11031	1234678-HpCDD	35822-46-9	32.9	B	0.0633	5.46	1
11031	OCDD	3268-87-9	284	B	0.0461	10.9	1
11031	2378-TCDF	51207-31-9	0.233	JQ	0.0830	1.09	1
11031	12378-PeCDF	57117-41-6	0.628	J	0.0329	5.46	1
11031	23478-PeCDF	57117-31-4	0.500	JB	0.0362	5.46	1
11031	123478-HxCDF	70648-26-9	0.623	JBQ	0.0323	5.46	1
11031	123678-HxCDF	57117-44-9	0.454	JB	0.0262	5.46	1
11031	123789-HxCDF	72918-21-9	0.285	J	0.0297	5.46	1
11031	234678-HxCDF	60851-34-5	0.561	JB	0.0283	5.46	1
11031	1234678-HpCDF	67562-39-4	8.55	B	0.0244	5.46	1
11031	1234789-HpCDF	55673-89-7	0.499	JB	0.0364	5.46	1
11031	OCDF	39001-02-0	19.4	B	0.0406	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-046-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257901
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7005 SDG#: DX070-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257901
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7005 SDG#: DX070-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 17:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB02-SA8N-SS-041311 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257902
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7006 SDG#: DX070-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.180	U	0.180	2.03	1
10915	12378-PeCDD	40321-76-4	0.347	JBQ	0.215	10.1	1
10915	123478-HxCDD	39227-28-6	0.476	JBQ	0.194	10.1	1
10915	123678-HxCDD	57653-85-7	0.418	JBQ	0.200	10.1	1
10915	123789-HxCDD	19408-74-3	0.190	U	0.190	10.1	1
10915	1234678-HpCDD	35822-46-9	4.31	JB	0.284	10.1	1
10915	OCDD	3268-87-9	9.89	JBQ	0.437	20.3	1
10915	2378-TCDF	51207-31-9	0.132	U	0.132	2.03	1
10915	12378-PeCDF	57117-41-6	0.276	JB	0.113	10.1	1
10915	23478-PeCDF	57117-31-4	0.812	JBQ	0.0987	10.1	1
10915	123478-HxCDF	70648-26-9	0.639	JBQ	0.212	10.1	1
10915	123678-HxCDF	57117-44-9	0.677	JB	0.167	10.1	1
10915	123789-HxCDF	72918-21-9	1.20	JB	0.154	10.1	1
10915	234678-HxCDF	60851-34-5	0.998	JBQ	0.130	10.1	1
10915	1234678-HpCDF	67562-39-4	2.52	JB	0.182	10.1	1
10915	1234789-HpCDF	55673-89-7	1.17	JBQ	0.184	10.1	1
10915	OCDF	39001-02-0	3.58	JB	0.303	20.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	48	25 - 164
13C12-12378-PeCDD	41	25 - 181
13C12-123478-HxCDD	38	32 - 141
13C12-123678-HxCDD	40	28 - 130
13C12-123789-HxCDD	40	28 - 130
13C12-1234678-HpCDD	36	23 - 140
13C12-OCDD	32	17 - 157
13C12-2378-TCDF	49	24 - 169
13C12-12378-PeCDF	39	24 - 185
13C12-23478-PeCDF	41	21 - 178
13C12-123478-HxCDF	26	26 - 152
13C12-123678-HxCDF	32	26 - 123
13C12-234678-HxCDF	41	28 - 136
13C12-123789-HxCDF	39	29 - 147
13C12-1234678-HpCDF	30	28 - 143
13C12-1234789-HpCDF	35	26 - 138
13C12-OCDF	31	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB02-SA8N-SS-041311 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257902
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7006 SDG#: DX070-06EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108003	04/24/2011 13:53	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11108003	04/19/2011 05:35	Ginelle L Haines	1

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Analysis Report

Sample Description: **SL-060-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257903
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7007 SDG#: DX070-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-060-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257903
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7007 SDG#: DX070-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0312 U	0.0312	1.13	1
11031	12378-PeCDD	40321-76-4	0.0491 JB	0.0328	5.66	1
11031	123478-HxCDD	39227-28-6	0.0230 U	0.0230	5.66	1
11031	123678-HxCDD	57653-85-7	0.0495 JBQ	0.0245	5.66	1
11031	123789-HxCDD	19408-74-3	0.130 JBQ	0.0223	5.66	1
11031	1234678-HpCDD	35822-46-9	0.419 JBQ	0.0306	5.66	1
11031	OCDD	3268-87-9	1.16 JB	0.0327	11.3	1
11031	2378-TCDF	51207-31-9	0.0269 U	0.0269	1.13	1
11031	12378-PeCDF	57117-41-6	0.0229 JQ	0.0130	5.66	1
11031	23478-PeCDF	57117-31-4	0.0430 JBQ	0.0144	5.66	1
11031	123478-HxCDF	70648-26-9	0.0390 JBQ	0.0185	5.66	1
11031	123678-HxCDF	57117-44-9	0.0465 JB	0.0143	5.66	1
11031	123789-HxCDF	72918-21-9	0.0176 U	0.0176	5.66	1
11031	234678-HxCDF	60851-34-5	0.0541 JBQ	0.0148	5.66	1
11031	1234678-HpCDF	67562-39-4	0.0955 JBQ	0.0178	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0771 JBQ	0.0320	5.66	1
11031	OCDF	39001-02-0	0.253 JBQ	0.0370	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-060-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257903
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7007 SDG#: DX070-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-060-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257903
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7007 SDG#: DX070-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 18:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-060-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257904
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7008 SDG#: DX070-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-060-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257904
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7008 SDG#: DX070-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0234 U	0.0234	1.12	1
11031	12378-PeCDD	40321-76-4	0.0265 U	0.0265	5.62	1
11031	123478-HxCDD	39227-28-6	0.0234 JBQ	0.0196	5.62	1
11031	123678-HxCDD	57653-85-7	0.0407 JB	0.0208	5.62	1
11031	123789-HxCDD	19408-74-3	0.0920 JBQ	0.0188	5.62	1
11031	1234678-HpCDD	35822-46-9	0.361 JB	0.0301	5.62	1
11031	OCDD	3268-87-9	1.21 JB	0.0265	11.2	1
11031	2378-TCDF	51207-31-9	0.0220 U	0.0220	1.12	1
11031	12378-PeCDF	57117-41-6	0.0350 JQ	0.0118	5.62	1
11031	23478-PeCDF	57117-31-4	0.0528 JBQ	0.0135	5.62	1
11031	123478-HxCDF	70648-26-9	0.0199 JB	0.0145	5.62	1
11031	123678-HxCDF	57117-44-9	0.0173 JBQ	0.0114	5.62	1
11031	123789-HxCDF	72918-21-9	0.0400 JQ	0.0150	5.62	1
11031	234678-HxCDF	60851-34-5	0.0428 JBQ	0.0127	5.62	1
11031	1234678-HpCDF	67562-39-4	0.101 JB	0.0107	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0426 JBQ	0.0200	5.62	1
11031	OCDF	39001-02-0	0.186 JB	0.0314	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	56	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-060-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257904
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7008 SDG#: DX070-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-060-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257904
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7008 SDG#: DX070-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 19:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-061-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257905
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7009 SDG#: DX070-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-061-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257905
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7009 SDG#: DX070-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0557 JQ	0.0293	1.14	1
11031	12378-PeCDD	40321-76-4	0.0637 JBQ	0.0293	5.69	1
11031	123478-HxCDD	39227-28-6	0.0316 JBQ	0.0219	5.69	1
11031	123678-HxCDD	57653-85-7	0.0528 JBQ	0.0232	5.69	1
11031	123789-HxCDD	19408-74-3	0.0689 JBQ	0.0227	5.69	1
11031	1234678-HpCDD	35822-46-9	0.374 JBQ	0.0269	5.69	1
11031	OCDD	3268-87-9	2.00 JB	0.0263	11.4	1
11031	2378-TCDF	51207-31-9	0.0251 U	0.0251	1.14	1
11031	12378-PeCDF	57117-41-6	0.0718 JQ	0.0123	5.69	1
11031	23478-PeCDF	57117-31-4	0.0892 JBQ	0.0141	5.69	1
11031	123478-HxCDF	70648-26-9	0.0525 JBQ	0.0162	5.69	1
11031	123678-HxCDF	57117-44-9	0.0626 JBQ	0.0130	5.69	1
11031	123789-HxCDF	72918-21-9	0.128 J	0.0201	5.69	1
11031	234678-HxCDF	60851-34-5	0.0555 JB	0.0141	5.69	1
11031	1234678-HpCDF	67562-39-4	0.140 JB	0.0113	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0407 JBQ	0.0219	5.69	1
11031	OCDF	39001-02-0	0.235 JBQ	0.0376	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-061-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257905
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7009 SDG#: DX070-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-061-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257905
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7009 SDG#: DX070-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 20:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-204-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257906
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7010 SDG#: DX070-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-204-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257906
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7010 SDG#: DX070-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0296	U	0.0296	1.12	1
11031	12378-PeCDD	40321-76-4	0.0305	U	0.0305	5.60	1
11031	123478-HxCDD	39227-28-6	0.0393	JBQ	0.0244	5.60	1
11031	123678-HxCDD	57653-85-7	0.0651	JBQ	0.0255	5.60	1
11031	123789-HxCDD	19408-74-3	0.0713	JB	0.0240	5.60	1
11031	1234678-HpCDD	35822-46-9	0.369	JBQ	0.0277	5.60	1
11031	OCDD	3268-87-9	0.962	JB	0.0356	11.2	1
11031	2378-TCDF	51207-31-9	0.0267	U	0.0267	1.12	1
11031	12378-PeCDF	57117-41-6	0.0131	U	0.0131	5.60	1
11031	23478-PeCDF	57117-31-4	0.0997	JBQ	0.0145	5.60	1
11031	123478-HxCDF	70648-26-9	0.0510	JBQ	0.0186	5.60	1
11031	123678-HxCDF	57117-44-9	0.0323	JBQ	0.0139	5.60	1
11031	123789-HxCDF	72918-21-9	0.0656	JQ	0.0181	5.60	1
11031	234678-HxCDF	60851-34-5	0.0396	JBQ	0.0140	5.60	1
11031	1234678-HpCDF	67562-39-4	0.105	JBQ	0.0114	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0835	JB	0.0198	5.60	1
11031	OCDF	39001-02-0	0.122	JBQ	0.0410	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	59	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	53	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	54	28 - 136
13C12-123789-HxCDF	48	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257906
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7010 SDG#: DX070-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-204-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257906
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7010 SDG#: DX070-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 21:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-205-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257907
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7011 SDG#: DX070-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-205-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257907
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7011 SDG#: DX070-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0251	JQ	0.0198	1.13	1
11031	12378-PeCDD	40321-76-4	0.0235	U	0.0235	5.63	1
11031	123478-HxCDD	39227-28-6	0.0182	U	0.0182	5.63	1
11031	123678-HxCDD	57653-85-7	0.0188	U	0.0188	5.63	1
11031	123789-HxCDD	19408-74-3	0.0590	JBQ	0.0186	5.63	1
11031	1234678-HpCDD	35822-46-9	0.830	JB	0.0239	5.63	1
11031	OCDD	3268-87-9	5.19	JB	0.0219	11.3	1
11031	2378-TCDF	51207-31-9	0.0199	U	0.0199	1.13	1
11031	12378-PeCDF	57117-41-6	0.0137	JQ	0.00995	5.63	1
11031	23478-PeCDF	57117-31-4	0.0590	JBQ	0.0114	5.63	1
11031	123478-HxCDF	70648-26-9	0.0429	JBQ	0.0126	5.63	1
11031	123678-HxCDF	57117-44-9	0.0195	JBQ	0.00973	5.63	1
11031	123789-HxCDF	72918-21-9	0.0420	J	0.0157	5.63	1
11031	234678-HxCDF	60851-34-5	0.0459	JBQ	0.0110	5.63	1
11031	1234678-HpCDF	67562-39-4	0.185	JBQ	0.00686	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0538	JBQ	0.0143	5.63	1
11031	OCDF	39001-02-0	0.311	JBQ	0.0340	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-205-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257907
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7011 SDG#: DX070-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-205-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257907
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7011 SDG#: DX070-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/20/2011 02:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-205-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257908
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7012 SDG#: DX070-12*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-205-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257908
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7012 SDG#: DX070-12*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0203	U	0.0203	1.13	1
11031	12378-PeCDD	40321-76-4	0.0228	U	0.0228	5.67	1
11031	123478-HxCDD	39227-28-6	0.0252	JBQ	0.0164	5.67	1
11031	123678-HxCDD	57653-85-7	0.0171	U	0.0171	5.67	1
11031	123789-HxCDD	19408-74-3	0.0411	JB	0.0166	5.67	1
11031	1234678-HpCDD	35822-46-9	0.300	JB	0.0196	5.67	1
11031	OCDD	3268-87-9	0.724	JB	0.0168	11.3	1
11031	2378-TCDF	51207-31-9	0.0182	JQ	0.0175	1.13	1
11031	12378-PeCDF	57117-41-6	0.0188	JQ	0.00916	5.67	1
11031	23478-PeCDF	57117-31-4	0.0540	JBQ	0.0105	5.67	1
11031	123478-HxCDF	70648-26-9	0.0334	JBQ	0.0136	5.67	1
11031	123678-HxCDF	57117-44-9	0.0156	JBQ	0.00916	5.67	1
11031	123789-HxCDF	72918-21-9	0.0654	JQ	0.0125	5.67	1
11031	234678-HxCDF	60851-34-5	0.0359	JBQ	0.00871	5.67	1
11031	1234678-HpCDF	67562-39-4	0.0864	JB	0.00641	5.67	1
11031	1234789-HpCDF	55673-89-7	0.0623	JBQ	0.0123	5.67	1
11031	OCDF	39001-02-0	0.196	JBQ	0.0307	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-205-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257908
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7012 SDG#: DX070-12*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-205-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257908
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7012 SDG#: DX070-12*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/20/2011 03:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242145
Reported: 05/13/11 at 01:16 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11116162401A	Sample number(s): 6257895-6257901,6257903-6257905,6257907-6257908								
Moisture Content by 160.3					100		80-120		
Batch number: 11126162401B	Sample number(s): 6257906								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11105002	Sample number(s): 6257895,6257900-6257901,6257903-6257908								
2378-TCDD	0.0189 U	0.0189	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0471 J	0.0203	5.00	ng/kg	107		70-142		
123478-HxCDD	0.0436 J	0.0170	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0275 J	0.0175	5.00	ng/kg	106		76-134		
123789-HxCDD	0.0327 J	0.0164	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.298 J	0.0179	5.00	ng/kg	105		70-140		
OCDD	0.622 J	0.0207	10.0	ng/kg	102		78-144		
2378-TCDF	0.0192 U	0.0192	1.00	ng/kg	115		75-158		
2378-TCDF-Conf	0.0240 U	0.0240	1.00	ng/kg					
12378-PeCDF	0.00910 U	0.00910	5.00	ng/kg	103		80-134		
23478-PeCDF	0.0602 J	0.00990	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0670 J	0.0151	5.00	ng/kg	102		72-134		
123678-HxCDF	0.0529 J	0.0117	5.00	ng/kg	100		84-130		
123789-HxCDF	0.0155 U	0.0155	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0595 J	0.0120	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.145 J	0.00690	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.0559 J	0.0131	5.00	ng/kg	105		78-138		
OCDF	0.267 J	0.0237	10.0	ng/kg	101		63-170		
Batch number: 11108003	Sample number(s): 6257902								
2378-TCDD	0.264 J	0.145	2.00	pg/l	89		67-158		
12378-PeCDD	0.899 J	0.168	10.0	pg/l	94		70-142		
123478-HxCDD	1.28 J	0.177	10.0	pg/l	99		70-164		
123678-HxCDD	1.08 J	0.182	10.0	pg/l	98		76-134		
123789-HxCDD	1.65 J	0.172	10.0	pg/l	97		64-162		
1234678-HpCDD	7.94 J	0.329	10.0	pg/l	98		70-140		
OCDD	47.4	0.357	20.0	pg/l	102		78-144		
2378-TCDF	0.147 J	0.0934	2.00	pg/l	101		75-158		
12378-PeCDF	0.844 J	0.0873	10.0	pg/l	97		80-134		
23478-PeCDF	1.28 J	0.0793	10.0	pg/l	99		68-160		
123478-HxCDF	1.50 J	0.177	10.0	pg/l	101		72-134		
123678-HxCDF	1.21 J	0.159	10.0	pg/l	101		84-130		
123789-HxCDF	1.98 J	0.172	10.0	pg/l	98		78-130		
234678-HxCDF	1.71 J	0.142	10.0	pg/l	102		70-156		
1234678-HpCDF	4.55 J	0.153	10.0	pg/l	102		82-122		
1234789-HpCDF	2.38 J	0.191	10.0	pg/l	100		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242145
Reported: 05/13/11 at 01:16 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	6.44	J	0.332	20.0	pg/l	103		63-170		
Batch number: 11118003	Sample number(s): 6257896-6257899									
2378-TCDD	0.0138	U	0.0138	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0182	J	0.0131	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0208	J	0.0148	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0353	J	0.0154	5.00	ng/kg	103		76-134		
123789-HxCDD	0.0254	J	0.0139	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.221	J	0.0206	5.00	ng/kg	102		70-140		
OCDD	0.477	J	0.0203	10.0	ng/kg	101		78-144		
2378-TCDF	0.0115	U	0.0115	1.00	ng/kg	105		75-158		
2378-TCDF-Conf	0.0283	U	0.0283	1.00	ng/kg					
12378-PeCDF	0.0263	J	0.00660	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0537	J	0.00690	5.00	ng/kg	101		68-160		
123478-HxCDF	0.0521	J	0.0131	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0335	J	0.0101	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0904	J	0.0137	5.00	ng/kg	101		78-130		
234678-HxCDF	0.0685	J	0.0104	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.104	J	0.00860	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.0661	J	0.0182	5.00	ng/kg	104		78-138		
OCDF	0.210	J	0.0307	10.0	ng/kg	106		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11116162401A	Sample number(s): 6257895-6257901,6257903-6257905,6257907-6257908 BKG: P257874								
Moisture Content by 160.3						15.2	15.0	2	20
Batch number: 11126162401B	Sample number(s): 6257906 BKG: P257885								
Moisture Content by 160.3						11.5	11.9	4	20
Batch number: 11118003	Sample number(s): 6257896-6257899 UNSPK: 6257896								
2378-TCDD	97	96	67-158	1	25				
12378-PeCDD	102	101	70-142	1	25				
123478-HxCDD	105	102	70-164	1	25				
123678-HxCDD	101	100	76-134	2	25				
123789-HxCDD	101	100	64-162	2	25				
1234678-HpCDD	85	74	70-140	5	25				
OCDD	43*	-3*	78-144	11	25				
2378-TCDF	102	102	75-158	2	25				
12378-PeCDF	101	99	80-134	0	25				
23478-PeCDF	100	99	68-160	3	25				
123478-HxCDF	103	101	72-134	0	25				
123678-HxCDF	102	98	84-130	1	25				
123789-HxCDF	100	98	78-130	1	25				
234678-HxCDF	101	102	70-156	4	25				
1234678-HpCDF	92	88	82-122	2	25				
1234789-HpCDF	101	99	78-138	1	25				
OCDF	89	83	63-170	3	25				

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242145
Reported: 05/13/11 at 01:16 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11105002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6257895	75	66	47	62	63	65
6257900	78	69	37	48	70	74
6257901	69	64	53	64	62	64
6257903	67	67	55	68	65	61
6257904	64	57	52	65	56	55
6257905	60	58	58	70	61	50
6257906	60	53	42	57	54	48
6257907	71	61	58	74	64	54
6257908	68	60	42	62	62	50
Blank	79	66	56	71	69	59
OPR	75	64	60	74	64	57
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6257895	72	60	60	89	72	69
6257900	56	73	66	86	76	67
6257901	76	61	58	83	69	68
6257903	94	60	54	85	74	74
6257904	75	50	46	84	65	66
6257905	81	48	44	77	63	72
6257906	68	44	40	80	59	61
6257907	84	48	44	85	70	73
6257908	72	47	40	86	66	72
Blank	88	56	52	103	78	78
OPR	88	54	51	90	71	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6257895	71	72	82	78	70	78
6257900	71	81	79	81	76	81
6257901	68	73	73	72	68	76
6257903	74	80	81	75	65	81
6257904	67	72	66	62	59	70
6257905	69	70	68	62	60	71
6257906	64	65	63	57	55	65
6257907	73	74	71	65	67	75
6257908	72	73	71	64	61	73
Blank	81	86	82	79	70	80
OPR	75	77	76	72	66	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242145
Reported: 05/13/11 at 01:16 PM

Surrogate Quality Control

	13C12-2378-TCDF-Conf
6257895	55
6257900	
6257901	
6257903	
6257904	
6257905	
6257906	
6257907	
6257908	
Blank	66
OPR	
Limits:	24-169

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11108003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6257902	48	41	26	32	41	39
Blank	63	57	50	55	59	56
OPR	76	73	67	72	77	77
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6257902	30	35	31	77	41	38
Blank	50	49	43	92	57	56
OPR	68	69	62	84	75	74
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6257902	40	40	36	32	49	39
Blank	56	56	49	43	63	56
OPR	75	75	69	61	74	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11118003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6257896	81	78	59	66	83	78
6257897	77	77	60	65	76	72
6257898	73	70	61	70	69	71
6257899	77	74	60	63	77	75
Blank	71	70	61	73	72	62
MS	77	77	60	65	76	72
MSD	73	70	61	70	69	71
OPR	67	69	64	69	71	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242145
Reported: 05/13/11 at 01:16 PM

Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6257896	79	74	67	87	82	84
6257897	76	70	64	83	80	78
6257898	82	65	60	82	75	76
6257899	71	72	66	82	77	78
Blank	100	58	50	86	77	80
MS	76	70	64	83	80	78
MSD	82	65	60	82	75	76
OPR	76	72	69	83	74	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6257896	84	87	84	82	80	88
6257897	79	78	76	73	74	85
6257898	73	75	76	75	69	76
6257899	75	81	77	78	73	81
Blank	78	83	85	85	64	79
MS	79	78	76	73	74	85
MSD	73	75	76	75	69	76
OPR	75	77	79	79	62	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6257896	69
6257897	
6257898	
6257899	71
Blank	59
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1242145 Sample#6257895-908

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Stacy Burt

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP02-SA8N-QC-041311	04.13.11	1015	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
DUP02-SA8N-QC-041311	04.13.11	1015	SOIL	NONE	1 SS sleeve			X	X															
SL-027-SA8N-SS-0.0-0.5MS	04.13.11	1010	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X											
SL-027-SA8N-SS-0.0-0.5MS	04.13.11	1010	SOIL	NONE	2 SS sleeves			X	X															MS/MSD sample
SL-027-SA8N-SS-0.0-0.5	04.13.11	1010	SOIL	NONE	1-16 oz jar										X									MS/MSD sample
SL-028-SA8N-SS-0.0-0.5	04.13.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-028-SA8N-SS-0.0-0.5	04.13.11	1030	SOIL	NONE	1 SS sleeve			X	X															
SL-032-SA8N-SS-0.0-0.5	04.13.11	1255	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X									
SL-032-SA8N-SS-0.0-0.5	04.13.11	1255	SOIL	NONE	1 SS sleeve			X	X															
SL-046-SA8N-SS-0.0-0.5	04.13.11	0840	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-046-SA8N-SS-0.0-0.5	04.13.11	0840	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/13/2011 / 1700	4/14/11 905	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8700 5932 3124; 8700 5932 3146 8700 5932 3157	

acct# 13013 Cp# 1242145 Sample# 6257895-908

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Stef J Butler

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCT's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SECONDARY FOR ALL LOCATIONS: **TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB02-SA8N-SS-041311	04.13.11	1215	WATER	NONE	7-1 liter ambers			X	X	X														
EB02-SA8N-SS-041311	04.13.11	1215	WATER	NONE	1-500 mL poly		X				X	X	X											
EB02-SA8N-SS-041311	04.13.11	1215	WATER	HNO3	1-500 mL poly	X																		
EB03-SA8N-SS-041311	04.13.11	1220	WATER	NONE	3-40 ml vials																	X		

Relinquished by: (Signature) — Date/Time: 04/13/2011 / 1700 — Received for Laboratory by: (Signature) 4/14/11 905

Received by: (Signature) — Date/Time — Air Bill No.(s): 8700 5932 3124; 8700 5932 3146 8700 5932 3157

Laboratory: Lancaster Laboratories, Inc.

acct#13013 Cp# 1242145 sample# 6257895-908

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-060-SA5A-SB-4.5	04.13.11	1600	SOIL	NONE	4-Encores										X	X											
SL-060-SA5A-SB-4.0-5.0	04.13.11	1605	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-060-SA5A-SB-8.0-9.0	04.13.11	1611	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-061-SA5A-SB-4.5	04.13.11	1424	SOIL	NONE	4-Encores										X	X											
SL-061-SA5A-SB-4.0-5.0	04.13.11	1428	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-204-SA5A-SB-4.5	04.13.11	0915	SOIL	NONE	5-Encores										X	X	X										
SL-204-SA5A-SB-4.0-5.0	04.13.11	0919	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-205-SA5A-SB-4.5	04.13.11	1110	SOIL	NONE	4-Encores										X	X											
SL-205-SA5A-SB-4.0-5.0	04.13.11	1114	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-205-SA5A-SB-8.0-9.0	04.13.11	1122	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
TB-041311	04.13.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time 04/13/2011 / 1700	Received for Laboratory by: (*Signature*) 4/14/11 905	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8700 5932 3124; 8700 5932 3146 8700 5932 3157	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 26, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/19/2011
Group Number: 1242769
SDG: DE130
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-056-SA8N-SS-0.0-0.5 Soil	6261694
SL-057-SA8N-SS-0.0-0.5 Soil	6261695
SL-071-SA8N-SS-0.0-0.5 Soil	6261696
SL-080-SA8N-SS-0.0-0.5 Soil	6261697
SL-085-SA8N-SS-0.0-0.5 Soil	6261698
SL-086-SA8N-SS-0.0-0.5 Soil	6261699
SL-132-SA8N-SS-0.0-0.5 Soil	6261700
EB05-SA8N-SS-041811 Water	6261701
SL-032-SA5A-SB-3.0-4.0 Soil	6261702
SL-172-SA5A-SB-4.0-5.0 Soil	6261703
SL-174-SA5A-SB-2.0-3.0 Soil	6261704
SL-254-SA5A-SB-2.5-3.5 Soil	6261705
TB-041811 Water	6261706
EB13-SA5A-SB-041811 Water	6261707

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	42.7		19.2	38.4		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-056-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9	J	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.0	J	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	1.8	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	2.3		0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	1.0	J	0.78	1.9		1
10138	Pyrene	129-00-0	1.8	J	0.78	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	2.7	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	3.3		0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	2.6		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	11		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	32		0.46	1.4		1

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Sample Description: SL-056-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,800		5.75	22.9		1
07914	Boron	7440-42-8	6.50		1.02	5.72		1
01650	Calcium	7440-70-2	35,500		7.01	22.9		1
01654	Iron	7439-89-6	31,600		26.9	114		5
01656	Lithium	7439-93-2	28.3		0.25	2.3		1
01657	Magnesium	7439-95-4	8,120		2.91	11.4		1
06958	Manganese	7439-96-5	429		0.0892	0.572		1
10145	Phosphorus	7723-14-0	731		0.641	11.4		1
01662	Potassium	7440-09-7	6,360		20.6	57.2		1
01667	Sodium	7440-23-5	131		42.7	114		1
07968	Strontium	7440-24-6	73.3		0.0709	0.572		1
06969	Tin	7440-31-5	2.66	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,360		0.435	1.14		1
10146	Zirconium	7440-67-7	2.59	J	0.961	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.231	J	0.0693	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.18		0.0924	0.462		2
06126	Barium	7440-39-3	130		0.125	0.462		2
06127	Beryllium	7440-41-7	0.702		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.279		0.0462	0.116		2

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Sample Description: **SL-056-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	30.5		0.139	0.462		2
06132	Cobalt	7440-48-4	10.3		0.0231	0.116		2
06133	Copper	7440-50-8	16.9		0.0763	0.462		2
06135	Lead	7439-92-1	10.7		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.624		0.0578	0.116		2
06139	Nickel	7440-02-0	19.1		0.116	0.462		2
06141	Selenium	7782-49-2	0.795		0.0462	0.462		2
06142	Silver	7440-22-4	0.0468	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.315		0.0347	0.116		2
06148	Vanadium	7440-62-2	57.9		0.0254	0.116		2
06149	Zinc	7440-66-6	81.1		0.647	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0111	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.6		0.93	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	409		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.26		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 19:00	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 19:01	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 12:48	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 09:48	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 23:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 17:59	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 08:25	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111090025A	04/20/2011 23:56	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 23:23	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 16:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111090025A	04/19/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 08:05	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 05:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 12:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11119621201A	04/29/2011 12:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 01:31	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 14:50	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 14:55	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-057-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.6	U	18.6	37.2		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-057-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.41	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	1.2	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	120	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-057-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	64	U	64	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	4.3		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	5.0		0.45	1.3		1
10199	EFH (C21-C30)	n.a.	9.7		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	25		0.45	1.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-057-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,600		5.49	21.8		1
07914	Boron	7440-42-8	8.34		0.971	5.45		1
01650	Calcium	7440-70-2	39,100		6.69	21.8		1
01654	Iron	7439-89-6	31,500		25.7	109		5
01656	Lithium	7439-93-2	30.7		0.24	2.2		1
01657	Magnesium	7439-95-4	8,760		2.77	10.9		1
06958	Manganese	7439-96-5	410		0.0851	0.545		1
10145	Phosphorus	7723-14-0	696		0.611	10.9		1
01662	Potassium	7440-09-7	7,080		19.6	54.5		1
01667	Sodium	7440-23-5	126		40.7	109		1
07968	Strontium	7440-24-6	82.2		0.0676	0.545		1
06969	Tin	7440-31-5	2.62	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,450		0.415	1.09		1
10146	Zirconium	7440-67-7	2.22	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.226		0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.87		0.0890	0.445		2
06126	Barium	7440-39-3	107		0.120	0.445		2
06127	Beryllium	7440-41-7	0.669		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.259		0.0445	0.111		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-057-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium		7440-47-3	31.1		0.133	0.445		2
06132	Cobalt		7440-48-4	10.7		0.0222	0.111		2
06133	Copper		7440-50-8	17.8		0.0734	0.445		2
06135	Lead		7439-92-1	10.0		0.0116	0.222		2
06138	Molybdenum		7439-98-7	0.449		0.0556	0.111		2
06139	Nickel		7440-02-0	19.8		0.111	0.445		2
06141	Selenium		7782-49-2	0.376	J	0.0445	0.445		2
06142	Silver		7440-22-4	0.0356	J	0.0133	0.111		2
06145	Thallium		7440-28-0	0.352		0.0334	0.111		2
06148	Vanadium		7440-62-2	59.9		0.0245	0.111		2
06149	Zinc		7440-66-6	80.0		0.623	3.34		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0138	J	0.0032	0.111		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.4		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate		14797-55-8	0.90	U	0.90	1.7		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.1	U	10.1	33.7		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1		1
		SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B		57-12-5	0.20	U	0.20	0.55		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	435		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.01		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-057-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 19:17	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 19:28	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 13:20	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 10:31	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/23/2011 00:09	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 18:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 08:50	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111090025A	04/21/2011 00:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 23:41	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 13:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111090025A	04/19/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 08:08	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-057-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 05:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 13:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11119621201A	04/29/2011 13:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 02:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 15:03	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 14:56	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SS-0.0-0.5

LLI Sample # SW 6261696
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:35

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE130-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	22.1	J	19.2	38.4		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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Sample Description: SL-071-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SS-0.0-0.5

LLI Sample # SW 6261696
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:35

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE130-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.9	J	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	1.5	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	1.4	J	0.78	2.0		1
10138	Fluorene	86-73-7	1.5	J	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	J	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	1.6	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	1.2	J	0.78	2.0		1
10138	Pyrene	129-00-0	1.3	J	0.78	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1

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Sample Description: SL-071-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SS-0.0-0.5

LLI Sample # SW 6261696
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:35

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE130-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	2.4		0.39	2.0		1
10225	PCB-1260	11096-82-5	1.6	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	4.2		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	19		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	48		0.47	1.4		1

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Sample Description: SL-071-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SS-0.0-0.5

LLI Sample # SW 6261696
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:35

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE130-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		5.83	23.2		1
07914	Boron	7440-42-8	1.62	J	1.03	5.80		1
01650	Calcium	7440-70-2	3,450		7.11	23.2		1
01654	Iron	7439-89-6	19,400		5.46	23.2		1
01656	Lithium	7439-93-2	25.8		0.26	2.3		1
01657	Magnesium	7439-95-4	4,380		2.94	11.6		1
06958	Manganese	7439-96-5	402		0.0904	0.580		1
10145	Phosphorus	7723-14-0	644		0.649	11.6		1
01662	Potassium	7440-09-7	3,630		20.9	58.0		1
01667	Sodium	7440-23-5	82.1	J	43.2	116		1
07968	Strontium	7440-24-6	22.6		0.0719	0.580		1
06969	Tin	7440-31-5	2.79	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,110		0.441	1.16		1
10146	Zirconium	7440-67-7	0.974	U	0.974	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.111	J	0.0696	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.32		0.0927	0.464		2
06126	Barium	7440-39-3	106		0.125	0.464		2
06127	Beryllium	7440-41-7	0.428		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.263		0.0464	0.116		2

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Sample Description: **SL-071-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SS-0.0-0.5

LLI Sample # SW 6261696
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:35

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE130-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	14.3		0.139	0.464		2
06132	Cobalt	7440-48-4	5.44		0.0232	0.116		2
06133	Copper	7440-50-8	8.95		0.0765	0.464		2
06135	Lead	7439-92-1	12.6		0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.722		0.0580	0.116		2
06139	Nickel	7440-02-0	10.5		0.116	0.464		2
06141	Selenium	7782-49-2	0.224	J	0.0464	0.464		2
06142	Silver	7440-22-4	0.0362	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.269		0.0348	0.116		2
06148	Vanadium	7440-62-2	29.6		0.0255	0.116		2
06149	Zinc	7440-66-6	71.6		0.649	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0449	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.4		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.23	J	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	442		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.58		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-071-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SS-0.0-0.5

LLI Sample # SW 6261696
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:35

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE130-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 19:34	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 19:55	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 13:52	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 11:13	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/23/2011 00:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 19:14	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 09:15	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111090025A	04/21/2011 00:25	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 23:59	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 14:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111090025A	04/19/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1

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Sample Description: **SL-071-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SS-0.0-0.5

LLI Sample # SW 6261696
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:35

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE130-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 05:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 13:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11119621201A	04/29/2011 13:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 03:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11116243201A	05/02/2011 15:23	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 14:57	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-080-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE130-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	38.2	J	20.1	40.2		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE130-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	2.3		0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.94	J	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	2.0	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	2.4		0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	1.0	J	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	1.4	J	0.81	2.0		1
10138	Pyrene	129-00-0	1.9	J	0.81	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1

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Sample Description: SL-080-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE130-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	2.9	J	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	8.7		0.40	2.1		1
10225	PCB-1260	11096-82-5	3.0		0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	2.8		0.48	1.4		1
10199	EFH (C21-C30)	n.a.	12		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	31		0.48	1.4		1

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Sample Description: SL-080-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

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SL080 SDG#: DE130-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	120	U	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,800		6.04	24.0		1
07914	Boron	7440-42-8	6.98		1.07	6.01		1
01650	Calcium	7440-70-2	59,500		7.37	24.0		1
01654	Iron	7439-89-6	28,800		5.66	24.0		1
01656	Lithium	7439-93-2	26.7		0.26	2.4		1
01657	Magnesium	7439-95-4	7,770		3.05	12.0		1
06958	Manganese	7439-96-5	458		0.0937	0.601		1
10145	Phosphorus	7723-14-0	1,020		0.673	12.0		1
01662	Potassium	7440-09-7	5,910		21.6	60.1		1
01667	Sodium	7440-23-5	129		44.8	120		1
07968	Strontium	7440-24-6	105		0.0745	0.601		1
06969	Tin	7440-31-5	2.47	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,310		0.457	1.20		1
10146	Zirconium	7440-67-7	3.01	J	1.01	6.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0721	0.240		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.83		0.0961	0.481		2
06126	Barium	7440-39-3	110		0.130	0.481		2
06127	Beryllium	7440-41-7	0.616		0.0192	0.120		2
06128	Cadmium	7440-43-9	0.316		0.0481	0.120		2

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Sample Description: **SL-080-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

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SL080 SDG#: DE130-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	27.7		0.144	0.481		2
06132	Cobalt	7440-48-4	8.71		0.0240	0.120		2
06133	Copper	7440-50-8	16.1		0.0793	0.481		2
06135	Lead	7439-92-1	9.10		0.0125	0.240		2
06138	Molybdenum	7439-98-7	0.672		0.0601	0.120		2
06139	Nickel	7440-02-0	17.3		0.120	0.481		2
06141	Selenium	7782-49-2	0.683		0.0481	0.481		2
06142	Silver	7440-22-4	0.0269	J	0.0144	0.120		2
06145	Thallium	7440-28-0	0.282		0.0360	0.120		2
06148	Vanadium	7440-62-2	52.2		0.0264	0.120		2
06149	Zinc	7440-66-6	72.6		0.673	3.60		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0249	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.97	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.2		0.97	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.60		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	451		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.01		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-080-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE130-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 19:50	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 20:21	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 14:25	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 11:55	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/23/2011 00:37	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 19:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 09:40	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111090025A	04/21/2011 00:40	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/21/2011 00:17	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 15:09	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111090025A	04/19/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-080-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE130-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 15:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 14:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11119621201A	04/29/2011 14:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 03:22	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 15:29	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 15:01	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-085-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	252	J	190	380		10
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	19	380		1
04688	Fluoranthene	206-44-0	57	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-085-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenanthrene	85-01-8	41	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	55	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.61	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	2.6		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.9		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	6.2		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.7		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	5.0		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-085-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.8	U	5.8	19		5
10225	Aroclor 5442	12642-23-8	5.8	U	5.8	19		5
10225	Aroclor 5460	11126-42-4	5.8	U	5.8	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.8		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.8		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.8		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.8		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.8		5
10225	PCB-1254	11097-69-1	40		1.9	9.8		5
10225	PCB-1260	11096-82-5	13		2.2	9.8		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.8		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.8		5
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	4.5		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	18		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	50		0.46	1.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-085-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		5.75	22.9		1
07914	Boron	7440-42-8	2.36	J	1.02	5.72		1
01650	Calcium	7440-70-2	4,370		7.01	22.9		1
01654	Iron	7439-89-6	21,300		5.38	22.9		1
01656	Lithium	7439-93-2	22.5		0.25	2.3		1
01657	Magnesium	7439-95-4	4,580		2.90	11.4		1
06958	Manganese	7439-96-5	379		0.0892	0.572		1
10145	Phosphorus	7723-14-0	523		0.640	11.4		1
01662	Potassium	7440-09-7	4,160		20.6	57.2		1
01667	Sodium	7440-23-5	85.5	J	42.6	114		1
07968	Strontium	7440-24-6	22.5		0.0709	0.572		1
06969	Tin	7440-31-5	2.62	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,180		0.434	1.14		1
10146	Zirconium	7440-67-7	1.44	J	0.960	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.88		0.0906	0.453		2
06126	Barium	7440-39-3	102		0.122	0.453		2
06127	Beryllium	7440-41-7	0.575		0.0181	0.113		2
06128	Cadmium	7440-43-9	1.35		0.0453	0.113		2
06131	Chromium	7440-47-3	19.0		0.136	0.453		2
06132	Cobalt	7440-48-4	6.61		0.0226	0.113		2
06133	Copper	7440-50-8	12.6		0.0747	0.453		2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-085-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	14.4		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.816		0.0566	0.113		2
06139	Nickel	7440-02-0	13.4		0.113	0.453		2
06141	Selenium	7782-49-2	0.202	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.127		0.0136	0.113		2
06145	Thallium	7440-28-0	0.276		0.0340	0.113		2
06148	Vanadium	7440-62-2	35.3		0.0249	0.113		2
06149	Zinc	7440-66-6	67.5		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.659		0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.2		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	444		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.54		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-085-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 20:07	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 20:48	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 14:57	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 12:38	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/23/2011 00:47	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 19:51	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 10:30	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111090025A	04/21/2011 01:25	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/21/2011 19:55	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 17:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111090025A	04/19/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2

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Sample Description: **SL-085-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 15:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 14:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11119621201A	04/29/2011 14:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 03:44	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11116243201A	05/02/2011 15:48	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 15:02	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-086-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SS-0.0-0.5

LLI Sample # SW 6261699
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE130-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-086-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SS-0.0-0.5

LLI Sample # SW 6261699
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE130-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.52	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	1.2	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.76	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.72	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,800		5.69	22.6		1
07914	Boron	7440-42-8	8.31		1.01	5.66		1
01650	Calcium	7440-70-2	37,300		6.93	22.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-086-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SS-0.0-0.5

LLI Sample # SW 6261699
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE130-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	29,400		26.6	113		5
01656	Lithium	7439-93-2	30.4		0.25	2.3		1
01657	Magnesium	7439-95-4	8,630		2.87	11.3		1
06958	Manganese	7439-96-5	408		0.0882	0.566		1
10145	Phosphorus	7723-14-0	700		0.633	11.3		1
01662	Potassium	7440-09-7	7,200		20.4	56.6		1
01667	Sodium	7440-23-5	118		42.2	113		1
07968	Strontium	7440-24-6	82.1		0.0701	0.566		1
06969	Tin	7440-31-5	2.52	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,390		0.430	1.13		1
10146	Zirconium	7440-67-7	2.07	J	0.950	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.205	J	0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.81		0.0923	0.461		2
06126	Barium	7440-39-3	97.2		0.125	0.461		2
06127	Beryllium	7440-41-7	0.682		0.0185	0.115		2
06128	Cadmium	7440-43-9	0.253		0.0461	0.115		2
06131	Chromium	7440-47-3	30.2		0.138	0.461		2
06132	Cobalt	7440-48-4	9.89		0.0231	0.115		2
06133	Copper	7440-50-8	17.3		0.0761	0.461		2
06135	Lead	7439-92-1	10.8		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.477		0.0577	0.115		2
06139	Nickel	7440-02-0	19.6		0.115	0.461		2
06141	Selenium	7782-49-2	0.323	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0278	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.312		0.0346	0.115		2
06148	Vanadium	7440-62-2	58.9		0.0254	0.115		2
06149	Zinc	7440-66-6	76.7		0.646	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0106	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	440		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-086-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SS-0.0-0.5

LLI Sample # SW 6261699
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE130-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.98	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/27/2011 10:03	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 15:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 20:09	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 08:12	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SS-0.0-0.5

LLI Sample # SW 6261699
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE130-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 14:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 04:28	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11116243201A	05/02/2011 16:01	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.0	U	18.0	36.0		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	37	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-132-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.88	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.5		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	4.4		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	8.3		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.3		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	4.2		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	6.7		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	12		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.6		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	1.1	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	4.4		0.73	1.8		1
10138	Pyrene	129-00-0	9.4		0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	5.2		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	16		0.36	1.9		1
10225	PCB-1260	11096-82-5	4.3		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13		10
10199	EFH (C15-C20)	n.a.	4.3	U	4.3	13		10
10199	EFH (C21-C30)	n.a.	19		4.3	13		10
10199	EFH (C30 - C40)	n.a.	120		4.3	13		10

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Sample Description: SL-132-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	4.3	U	4.3	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,700		5.44	21.6		1
07914	Boron	7440-42-8	5.01	J	0.962	5.40		1
01650	Calcium	7440-70-2	13,700		6.63	21.6		1
01654	Iron	7439-89-6	29,500		25.5	108		5
01656	Lithium	7439-93-2	21.9		0.24	2.2		1
01657	Magnesium	7439-95-4	7,170		2.75	10.8		1
06958	Manganese	7439-96-5	455		0.0843	0.540		1
10145	Phosphorus	7723-14-0	1,080		0.605	10.8		1
01662	Potassium	7440-09-7	5,620		19.5	54.0		1
01667	Sodium	7440-23-5	172		40.3	108		1
07968	Strontium	7440-24-6	39.0		0.0670	0.540		1
06969	Tin	7440-31-5	2.58	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,480		0.411	1.08		1
10146	Zirconium	7440-67-7	3.97	J	0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.255		0.0636	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.17		0.0848	0.424		2
06126	Barium	7440-39-3	213		0.286	1.06		5
06127	Beryllium	7440-41-7	0.677		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.244		0.0424	0.106		2
06131	Chromium	7440-47-3	24.8		0.127	0.424		2
06132	Cobalt	7440-48-4	9.31		0.0212	0.106		2
06133	Copper	7440-50-8	16.2		0.0700	0.424		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.70		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.678		0.0530	0.106		2
06139	Nickel	7440-02-0	15.6		0.106	0.424		2
06141	Selenium	7782-49-2	0.397	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0462	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.311		0.0318	0.106		2
06148	Vanadium	7440-62-2	48.2		0.0233	0.106		2
06149	Zinc	7440-66-6	99.2		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0896	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	430		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-132-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 20:40	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/27/2011 10:29	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 22:34	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 14:45	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/23/2011 00:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 20:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/27/2011 12:58	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111090025A	04/21/2011 01:39	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/21/2011 20:12	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 18:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111090025A	04/19/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 08:15	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 15:28	Choon Y Tian	5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-132-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 09:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 09:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 14:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11119621201A	04/29/2011 14:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 04:50	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 16:19	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 15:03	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB05-SA8N-SS-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.565	J	0.484	0.967		1
	The recovery of the target compound was outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	59		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1

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Sample Description: **EB05-SA8N-SS-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.019	U	0.019	0.096		1
10137	Acenaphthylene	208-96-8	0.019	U	0.019	0.096		1
10137	Anthracene	120-12-7	0.019	U	0.019	0.096		1
10137	Benzo(a)anthracene	56-55-3	0.019	U	0.019	0.096		1
10137	Benzo(a)pyrene	50-32-8	0.019	U	0.019	0.096		1
10137	Benzo(b)fluoranthene	205-99-2	0.019	U	0.019	0.096		1
10137	Benzo(g,h,i)perylene	191-24-2	0.019	U	0.019	0.096		1
10137	Benzo(k)fluoranthene	207-08-9	0.019	U	0.019	0.096		1
10137	Butylbenzylphthalate	85-68-7	0.33	J	0.096	1.9		1
10137	Di-n-butylphthalate	84-74-2	0.37	J	0.096	1.9		1
10137	Chrysene	218-01-9	0.019	U	0.019	0.096		1
10137	Dibenz(a,h)anthracene	53-70-3	0.019	U	0.019	0.096		1
10137	Diethylphthalate	84-66-2	0.096	U	0.096	1.9		1
10137	Dimethylphthalate	131-11-3	0.096	U	0.096	1.9		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.72	J	0.096	1.9		1
10137	Fluoranthene	206-44-0	0.019	U	0.019	0.096		1
10137	Fluorene	86-73-7	0.019	U	0.019	0.096		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.019	U	0.019	0.096		1
10137	1-Methylnaphthalene	90-12-0	0.019	U	0.019	0.096		1
10137	2-Methylnaphthalene	91-57-6	0.019	U	0.019	0.096		1
10137	Naphthalene	91-20-3	0.058	U	0.058	0.096		1
10137	N-Nitrosodimethylamine	62-75-9	0.019	U	0.019	0.096		1
10137	Di-n-octylphthalate	117-84-0	0.52	J	0.096	1.9		1
10137	Phenanthrene	85-01-8	0.019	U	0.019	0.096		1
10137	Pyrene	129-00-0	0.019	U	0.019	0.096		1
	Reporting limits were raised due to limited sample volume.							
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1

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Sample Description: **EB05-SA8N-SS-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1

Due to instrument failures, the sample was not able to be analyzed immediately after the preparation. Tetryl as a compound is very unstable, therefore the LCS/LCSD recoveries for tetryl are outside the QC limits. The client was notified and the data is reported.

HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1

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Sample Description: **EB05-SA8N-SS-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.60		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days.								
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.081	U	0.081	0.25		1
10319	o-Terphenyl	84-15-1	0.081	U	0.081	0.25		1
10319	p-Terphenyl	92-94-4	0.081	U	0.081	0.25		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0221	J	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0949	J	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1

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Sample Description: **EB05-SA8N-SS-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.4	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11110WAF026	04/21/2011 14:29	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11112WAJ026	04/24/2011 13:36	Matthew S Woods	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB05-SA8N-SS-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11110WAE026	04/22/2011 02:08	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11112WAJ026	04/23/2011 09:00	Olivia Arosemena	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11110WAE026	04/20/2011 22:30	Elaine F Stoltzfus	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11110WAF026	04/21/2011 02:35	David V Hershey Jr	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111090002A	05/18/2011 09:28	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111110003A	04/22/2011 20:39	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111110024A	04/25/2011 22:16	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	111110024A	04/22/2011 10:45	Denise L Trimby	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111110003A	04/21/2011 14:30	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	111090002A	04/19/2011 16:00	Wanda F Oswald	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111100043A	04/29/2011 08:30	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111160038A	04/27/2011 22:02	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111100002A	04/20/2011 18:59	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111100042A	04/24/2011 01:34	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111100043A	04/21/2011 07:00	Joseph S Feister	1
10304	Terphenyls water prep	SW-846 3510C	1	111100042A	04/21/2011 07:00	Joseph S Feister	1
01743	Aluminum	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
08014	Boron	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
01750	Calcium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
01754	Iron	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
01756	Lithium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
07058	Manganese	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
01762	Potassium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
01767	Sodium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
08068	Strontium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
07069	Tin	SW-846 6010B	1	111171848001	05/02/2011 16:31	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
06024	Antimony	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111176050001D	04/28/2011 12:49	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111176050001C	04/28/2011 12:49	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111176050001B	04/28/2011 12:49	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB05-SA8N-SS-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06045	Thallium	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111095713004	04/19/2011 20:08	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111171848001	04/27/2011 22:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111176050001	04/27/2011 22:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111095713004	04/19/2011 15:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11109196601B	04/20/2011 08:20	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11109196601B	04/20/2011 08:20	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11115196701A	04/26/2011 05:12	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11108196401B	04/19/2011 11:02	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11109117101B	04/20/2011 14:05	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11109117101B	04/19/2011 22:45	James S Mathiot	1
00200	18b pH by 9040B	SW-846 9040B	1	11110020002A	04/20/2011 21:00	Luz M Groff	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-032-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.89
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.89
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.89
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.89
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.89
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.1		0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.89
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.89
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.89
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.89
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.89
06192	Methylene Chloride	75-09-2	5.8		0.25	4.1		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.89

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.89
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.89
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.48
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.77	22.9		1
07914	Boron	7440-42-8	1.02	U	1.02	5.74		1
01650	Calcium	7440-70-2	2,080		7.03	22.9		1
01654	Iron	7439-89-6	22,300		5.40	22.9		1
01656	Lithium	7439-93-2	20.8		0.25	2.3		1
01657	Magnesium	7439-95-4	4,110		2.91	11.5		1
06958	Manganese	7439-96-5	377		0.0895	0.574		1
10145	Phosphorus	7723-14-0	330		0.642	11.5		1
01662	Potassium	7440-09-7	2,700		20.7	57.4		1
01667	Sodium	7440-23-5	86.0	J	42.8	115		1
07968	Strontium	7440-24-6	16.9		0.0711	0.574		1
06969	Tin	7440-31-5	3.04	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,260		0.436	1.15		1
10146	Zirconium	7440-67-7	1.18	J	0.964	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.121	J	0.0682	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.79		0.0909	0.454		2
06126	Barium	7440-39-3	77.8		0.123	0.454		2
06127	Beryllium	7440-41-7	0.637		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0454	U	0.0454	0.114		2
06131	Chromium	7440-47-3	12.7		0.136	0.454		2
06132	Cobalt	7440-48-4	5.89		0.0227	0.114		2
06133	Copper	7440-50-8	6.81		0.0750	0.454		2
06135	Lead	7439-92-1	5.11		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.539		0.0568	0.114		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	8.94		0.114	0.454		2
06141	Selenium	7782-49-2	0.217	J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0243	J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.249		0.0341	0.114		2
06148	Vanadium	7440-62-2	27.7		0.0250	0.114		2
06149	Zinc	7440-66-6	51.6		0.636	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0057	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.93	U	0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	373		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.16		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-032-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 17:22	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 16:35	Sara E Johnson	22.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110924154	04/19/2011 17:18	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/27/2011 10:56	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/28/2011 02:13	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 20:46	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 09:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 09:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 09:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-032-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 15:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 05:12	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 16:32	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE130-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.88
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.88
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.88
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.88
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.88
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.88
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.88
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.88
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.88
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.88
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.88
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.88
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.88
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.88
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.88
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.88
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.88
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.88
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.88
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.88
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.88
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.88
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.88
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.88
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.88
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.88
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.88
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.88
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.88
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.88
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.88
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.88
06192	Methylene Chloride	75-09-2	0.65	J	0.25	4.2		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.88

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Sample Description: SL-172-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE130-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.88
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.88
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.88
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.88
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.88
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.88
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.33
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Sample Description: SL-172-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE130-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1

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Sample Description: SL-172-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE130-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,700		5.93	23.6		1
07914	Boron	7440-42-8	1.05	U	1.05	5.89		1
01650	Calcium	7440-70-2	2,740		7.22	23.6		1
01654	Iron	7439-89-6	25,500		5.55	23.6		1
01656	Lithium	7439-93-2	33.4		0.26	2.4		1
01657	Magnesium	7439-95-4	5,840		2.99	11.8		1
06958	Manganese	7439-96-5	272		0.0919	0.589		1
10145	Phosphorus	7723-14-0	395		0.660	11.8		1
01662	Potassium	7440-09-7	2,600		21.2	58.9		1
01667	Sodium	7440-23-5	91.8	J	44.0	118		1
07968	Strontium	7440-24-6	17.8		0.0731	0.589		1
06969	Tin	7440-31-5	2.84	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,410		0.448	1.18		1
10146	Zirconium	7440-67-7	1.50	J	0.990	5.89		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0766	J	0.0700	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.97		0.0934	0.467		2
06126	Barium	7440-39-3	72.7		0.126	0.467		2
06127	Beryllium	7440-41-7	0.624		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.0467	U	0.0467	0.117		2
06131	Chromium	7440-47-3	19.4		0.140	0.467		2
06132	Cobalt	7440-48-4	5.02		0.0233	0.117		2
06133	Copper	7440-50-8	8.22		0.0770	0.467		2
06135	Lead	7439-92-1	5.21		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.394		0.0583	0.117		2

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Sample Description: SL-172-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE130-10

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	12.1		0.117	0.467		2
06141	Selenium		7782-49-2	0.112	J	0.0467	0.467		2
06142	Silver		7440-22-4	0.0296	J	0.0140	0.117		2
06145	Thallium		7440-28-0	0.277		0.0350	0.117		2
06148	Vanadium		7440-62-2	37.3		0.0257	0.117		2
06149	Zinc		7440-66-6	47.2		0.653	3.50		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0179	J	0.0032	0.113		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.1		0.96	1.2		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.8	U	10.8	36.1		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.24	U	0.24	1.2		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	426		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.65		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	16.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-172-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-172-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

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14420 Albemarle Point Place
Suite 210
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SL172 SDG#: DE130-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 17:44	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 16:55	Sara E Johnson	21.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110924154	04/19/2011 17:27	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/27/2011 11:22	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/28/2011 02:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 21:05	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 09:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 09:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 09:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-172-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE130-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 15:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 05:34	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 16:44	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.9
06192	Methylene Chloride	75-09-2	0.51	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-174-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.94
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-174-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-174-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,100		5.49	21.8		1
07914	Boron	7440-42-8	0.971	U	0.971	5.45		1
01650	Calcium	7440-70-2	3,710		6.68	21.8		1
01654	Iron	7439-89-6	27,900		5.14	21.8		1
01656	Lithium	7439-93-2	28.9		0.24	2.2		1
01657	Magnesium	7439-95-4	7,270		2.77	10.9		1
06958	Manganese	7439-96-5	268		0.0851	0.545		1
10145	Phosphorus	7723-14-0	485		0.611	10.9		1
01662	Potassium	7440-09-7	3,480		19.6	54.5		1
01667	Sodium	7440-23-5	122		40.7	109		1
07968	Strontium	7440-24-6	22.6		0.0676	0.545		1
06969	Tin	7440-31-5	2.93	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,610		0.414	1.09		1
10146	Zirconium	7440-67-7	0.916	U	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.157	J	0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.55		0.0872	0.436		2
06126	Barium	7440-39-3	119		0.118	0.436		2
06127	Beryllium	7440-41-7	0.901		0.0436	0.273		5
06128	Cadmium	7440-43-9	0.0436	U	0.0436	0.109		2
06131	Chromium	7440-47-3	25.9		0.131	0.436		2
06132	Cobalt	7440-48-4	7.53		0.0218	0.109		2
06133	Copper	7440-50-8	12.8		0.0720	0.436		2
06135	Lead	7439-92-1	7.37		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.460		0.0545	0.109		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-174-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	14.4		0.109	0.436		2
06141	Selenium		7782-49-2	0.178	J	0.0436	0.436		2
06142	Silver		7440-22-4	0.0167	J	0.0131	0.109		2
06145	Thallium		7440-28-0	0.358		0.0327	0.109		2
06148	Vanadium		7440-62-2	45.2		0.0240	0.109		2
06149	Zinc		7440-66-6	75.7		0.611	3.27		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0119	J	0.0031	0.108		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.89	U	0.89	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.0	U	10.0	33.4		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	441		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.64		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	10.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-174-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-174-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 18:06	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 17:15	Sara E Johnson	22.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:34	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110924154	04/19/2011 17:31	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/27/2011 11:49	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/28/2011 03:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 22:38	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 09:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 10:00	Choon Y Tian	5
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 09:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 09:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-174-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 15:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 05:56	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 16:57	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-254-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.46	U	0.46	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.83
06192	Methylene Chloride	75-09-2	0.47	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.83

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.83
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.4	U	4.4	13		19.78
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: **SL-254-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1

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Sample Description: **SL-254-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		5.50	21.9		1
07914	Boron	7440-42-8	0.973	U	0.973	5.46		1
01650	Calcium	7440-70-2	2,500		6.70	21.9		1
01654	Iron	7439-89-6	24,900		5.15	21.9		1
01656	Lithium	7439-93-2	26.1		0.24	2.2		1
01657	Magnesium	7439-95-4	4,610		2.78	10.9		1
06958	Manganese	7439-96-5	172		0.0853	0.546		1
10145	Phosphorus	7723-14-0	163		0.612	10.9		1
01662	Potassium	7440-09-7	1,230		19.7	54.6		1
01667	Sodium	7440-23-5	125		40.8	109		1
07968	Strontium	7440-24-6	18.9		0.0678	0.546		1
06969	Tin	7440-31-5	2.99	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,210		0.415	1.09		1
10146	Zirconium	7440-67-7	1.17	J	0.918	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.10		0.0866	0.433		2
06126	Barium	7440-39-3	58.1		0.117	0.433		2
06127	Beryllium	7440-41-7	0.895		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0433	U	0.0433	0.108		2
06131	Chromium	7440-47-3	20.1		0.130	0.433		2
06132	Cobalt	7440-48-4	3.77		0.0216	0.108		2
06133	Copper	7440-50-8	5.48		0.0714	0.433		2
06135	Lead	7439-92-1	5.67		0.0113	0.216		2
06138	Molybdenum	7439-98-7	0.408		0.0541	0.108		2

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Sample Description: SL-254-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	7.55	0.108	0.433		2
06141	Selenium		7782-49-2	0.143 J	0.0433	0.433		2
06142	Silver		7440-22-4	0.0348 J	0.0130	0.108		2
06145	Thallium		7440-28-0	0.172	0.0325	0.108		2
06148	Vanadium		7440-62-2	39.9	0.0238	0.108		2
06149	Zinc		7440-66-6	34.6	0.606	3.25		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0143 J	0.0031	0.108		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.9	0.89	1.1		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.0 U	10.0	33.4		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	1.5	0.22	1.1		1
		ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	460	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.36	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	10.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-254-SA5A-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-254-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 18:29	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 17:35	Sara E Johnson	19.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:38	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110924154	04/19/2011 17:44	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110924154	04/19/2011 17:36	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/27/2011 12:15	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/28/2011 03:49	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 22:56	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 09:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 09:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 09:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-254-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201B	04/29/2011 15:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201B	05/06/2011 07:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11116243201A	05/02/2011 17:15	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201B	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201B	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-041811 Water
SSFL Area IV Collocated Soil Sampling
TB-041811

LLI Sample # WW 6261706
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB418 SDG#: DE130-13TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-041811 Water
SSFL Area IV Collocated Soil Sampling
TB-041811

LLI Sample # WW 6261706
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB418 SDG#: DE130-13TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111121AA	04/22/2011	13:17	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111101AA	04/20/2011	10:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111101AA	04/20/2011	10:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111121AA	04/22/2011	13:17	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11116B20A	04/26/2011	23:39	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11116B20A	04/26/2011	23:39	Laura M Krieger	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB13-SA5A-SB-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB13-SA5A-SB-041811

LLI Sample # WW 6261707
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 13:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-13 SDG#: DE130-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB13-SA5A-SB-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB13-SA5A-SB-041811

LLI Sample # WW 6261707
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 13:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-13 SDG#: DE130-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	59		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB13-SA5A-SB-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB13-SA5A-SB-041811

LLI Sample # WW 6261707
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 13:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-13 SDG#: DE130-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.050	U	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.32	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.050	U	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.30	J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.050		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB13-SA5A-SB-041811 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5A-SB-041811

LLI Sample # WW 6261707
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 13:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-13 SDG#: DE130-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10137	2-Methylnaphthalene	91-57-6	0.010 U	0.010	0.050		1
10137	Naphthalene	91-20-3	0.031 J	0.030	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010 U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.27 J	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.010 U	0.010	0.050		1
10137	Pyrene	129-00-0	0.010 U	0.010	0.050		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.097 U	0.097	0.48		1
10227	Aroclor 5442	12642-23-8	0.097 U	0.097	0.48		1
10227	Aroclor 5460	11126-42-4	0.097 U	0.097	0.48		1
10227	PCB-1016	12674-11-2	0.097 U	0.097	0.48		1
10227	PCB-1221	11104-28-2	0.097 U	0.097	0.48		1
10227	PCB-1232	11141-16-5	0.19 U	0.19	0.48		1
10227	PCB-1242	53469-21-9	0.097 U	0.097	0.48		1
10227	PCB-1248	12672-29-6	0.097 U	0.097	0.48		1
10227	PCB-1254	11097-69-1	0.097 U	0.097	0.48		1
10227	PCB-1260	11096-82-5	0.15 U	0.15	0.48		1
10227	PCB-1262	37324-23-5	0.19 U	0.19	0.48		1
10227	PCB-1268	11100-14-4	0.15 U	0.15	0.48		1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0151 J	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1

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Sample Description: **EB13-SA5A-SB-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB13-SA5A-SB-041811

LLI Sample # WW 6261707
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 13:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-13 SDG#: DE130-14EB*

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06041	Selenium		7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver		7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium		7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium		7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc		7440-66-6	0.0040 U	0.0040	0.0150		1
		SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury		7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride		16984-48-8	0.080 U	0.080	0.10		1
		EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0		14797-73-0	0.70 U	0.70	2.0		1
		SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199		18540-29-9	5.0 U	5.0	10.0		1
		SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B		n.a.	5.6	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111121AA	04/22/2011 13:38	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111101AA	04/20/2011 10:45	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111101AA	04/20/2011 10:45	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111121AA	04/22/2011 13:38	Nicholas R Rossi	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11112WAJ026	04/24/2011 14:00	Matthew S Woods	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11110WAE026	04/22/2011 02:40	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11112WAJ026	04/23/2011 09:00	Olivia Arosemena	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11110WAE026	04/20/2011 22:30	Elaine F Stoltzfus	1

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Sample Description: EB13-SA5A-SB-041811 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5A-SB-041811

LLI Sample # WW 6261707
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 13:30

Submitted: 04/19/2011 09:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-13 SDG#: DE130-14EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111110024A	04/25/2011 22:35	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	111110024A	04/22/2011 10:45	Denise L Trimby	1
01743	Aluminum	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
08014	Boron	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
01750	Calcium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
01754	Iron	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
01756	Lithium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
07058	Manganese	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
01762	Potassium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
01767	Sodium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
08068	Strontium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
07069	Tin	SW-846 6010B	1	111171848001	05/02/2011 16:34	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
06024	Antimony	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111176050001D	04/28/2011 12:52	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111176050001C	04/28/2011 12:52	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111176050001B	04/28/2011 12:52	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111095713004	04/19/2011 20:09	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111171848001	04/27/2011 22:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111176050001	04/27/2011 22:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111095713004	04/19/2011 15:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11109196601B	04/20/2011 09:02	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11115196701A	04/26/2011 05:35	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11108196401B	04/19/2011 11:15	Ashley M Adams	1
00200	18b pH by 9040B	SW-846 9040B	1	11112020001A	04/22/2011 20:30	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111111AA	Sample number(s): 6261702-6261705									
Acetone	6.7	U	6.7	8.0	ug/kg	157	152	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	104	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101	101	79-120	0	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	120	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92	92	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	88	90	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	87	83	32-162	5	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	119	121	46-153	2	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	107	105	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	109	108	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99	97	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	94	92	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	98	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	88	82	37-154	7	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	63	64	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	99	80-120	0	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	93	92	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	101	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101	100	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	91	86	22-131	5	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	92	94	58-120	3	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	91	92	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98	98	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	94	97	80-120	4	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	98	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	98	100	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	98	79-120	0	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	79	77	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	102	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	93	95	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112	110	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99	100	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	102	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	101	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99	99	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	85	84	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98	97	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88	91	80-120	3	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	85	87	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	99	98	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	118	114	61-126	3	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	105	103	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98	97	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	108	113	45-155	5	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99	97	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105	103	75-120	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	87	90	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	92	98	61-134	6	30
Methylene Chloride	0.46	J	0.24	4.0	ug/kg	106	107	76-124	0	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	113	107	77-120	5	30
Styrene	0.10	U	0.10	4.0	ug/kg	93	92	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	93	93	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	105	108	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	97	77-120	3	30
Toluene	0.08	U	0.08	4.0	ug/kg	102	100	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94	97	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	90	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95	94	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	99	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	96	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	100	97	58-133	4	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101	104	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102	101	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	106	102	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93	91	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98	97	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	93	93	80-120	0	30
Batch number: E111101AA	Sample number(s): 6261706-6261707									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	115	120	80-123	4	30
Batch number: E111102AA	Sample number(s): 6261702-6261705									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	97	109	70-130	11	30
Batch number: Y111121AA	Sample number(s): 6261706-6261707									
Acetone	6	U	6.	20	ug/l	119	118	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	96	94	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	113	111	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	109	106	80-120	3	30
Bromoform	1	U	1.	5	ug/l	97	94	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	102	100	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	108	106	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	92	92	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	96	96	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	94	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	126*	122	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	88	86	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	89	89	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	113	111	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	92	91	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	85	84	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	93	92	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	103	100	80-120	3	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	101	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	109	109	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	99	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	99	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	102	98	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	97	95	79-120	2	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	128	126	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	101	95	74-123	6	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	97	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	92	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	91	89	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	95	94	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	94	93	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	101	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	94	92	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	86	89	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	96	79-120	4	30
Freon 113	2	U	2.	10	ug/l	109	104	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	120	118	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	106	106	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	92	92	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	104	101	77-120	3	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	98	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	93	94	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	94	92	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
Styrene	1	U	1.	5	ug/l	94	92	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	105	104	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	85	86	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	109	105	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	92	90	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	103	103	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	96	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	100	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	94	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	108	103	80-120	5	30
Trichlorofluoromethane	2	U	2.	5	ug/l	130*	125	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	101	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	97	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	99	97	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	86	84	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
Batch number: 11110SLG026	Sample number(s): 6261694-6261698,6261700									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	74		70-130		
Batch number: 11110WAE026	Sample number(s): 6261701,6261707									
Acenaphthene	0.010	U	0.010	0.050	ug/l	103	104	74-109	1	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	99	98	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	98	97	66-111	0	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	101	101	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	100	102	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	115	114	69-123	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	98	97	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	100	99	59-130	1	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	86	84	40-138	3	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	98	97	74-131	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	100	100	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	100	99	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	78	77	57-134	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	65	61	40-119	5	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	116	121	57-154	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.010	U	0.010	0.050	ug/l	100	101	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	103	104	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	101	101	69-124	0	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	99	100	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	88	89	75-115	2	30
Naphthalene	0.030	U	0.030	0.050	ug/l	94	95	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	66	64	36-89	4	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	115	126	57-145	9	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	98	97	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	104	106	69-118	2	30
Batch number: 11110WAF026	Sample number(s): 6261701									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	60*	77	70-130	25	30
Batch number: 11112SLA026	Sample number(s): 6261694-6261700,6261702-6261705									
Aniline	170 U		170.	500	ug/kg	78		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	74		15-121		
Benzoic acid	170 U		170.	500	ug/kg	104		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	62		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	90		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	92		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	58		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	102		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	107		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	104		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	106		75-117		
Fluoranthene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	81		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	59		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	75		68-105		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	99		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	78		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	89		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	71		51-117		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	100		58-112		
Pyrene	17	U	17.	170	ug/kg	99		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	81		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11112WAJ026	Sample number(s): 6261701,6261707									
Aniline	1	U	1.	5	ug/l	80	77	49-101	3	30
Benzidine	20	U	20.	60	ug/l	84	79	34-117	7	30
Benzoic acid	6	U	6.	15	ug/l	25	33	10-69	31*	30
Benzyl alcohol	5	U	5.	15	ug/l	78	79	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	94	93	82-117	1	30
Carbazole	1	U	1.	5	ug/l	100	102	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	92	92	70-123	0	30
4-Chloroaniline	1	U	1.	5	ug/l	77	73	42-124	5	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	98	99	74-124	0	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	99	97	77-108	2	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	89	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	78	85	54-132	8	30
2-Chlorophenol	1	U	1.	5	ug/l	94	93	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	97	95	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	98	95	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	79	74	55-118	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	74	67	50-119	9	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	77	71	53-119	8	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	77	72	49-111	7	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	97	97	80-109	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	95	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	99	98	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	93	96	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	98	98	52-131	0	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	102	101	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	97	97	85-115	0	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	106	106	78-116	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	96	96	81-118	0	30
Hexachlorobutadiene	1	U	1.	5	ug/l	66	59	57-124	11	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	67	58	36-118	14	30
Hexachloroethane	1	U	1.	5	ug/l	63	55	52-113	13	30
Isophorone	1	U	1.	5	ug/l	96	96	74-117	0	30
2-Methylphenol	1	U	1.	5	ug/l	81	81	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	84	85	61-103	1	30
2-Nitroaniline	1	U	1.	5	ug/l	101	98	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	99	99	74-113	0	30
4-Nitroaniline	1	U	1.	5	ug/l	79	79	59-100	0	30
Nitrobenzene	1	U	1.	5	ug/l	100	100	75-109	0	30

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrophenol	1	U	1.	5	ug/l	98	98	86-120	0	30
4-Nitrophenol	10	U	10.	30	ug/l	51	52	16-78	1	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	93	92	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	102	102	67-136	0	30
Pentachlorophenol	3	U	3.	15	ug/l	83	84	53-110	1	30
Phenol	1	U	1.	5	ug/l	39	41	21-67	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	79	71-112	8	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	100	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	100	101	81-113	1	30
Batch number: 11116SLA026	Sample number(s): 6261694-6261700,6261702-6261705									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	89		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	94		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	103		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	113		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	117		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	113		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	101		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	94		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	94		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	111		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	79		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	96		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	112		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	93		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	94		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	114		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	122		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	97		56-121		
Batch number: 11116B20A	Sample number(s): 6261706									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111090002A	Sample number(s): 6261701									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	100	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	97	80-120	2	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	87	87	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	87	87	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	97	98	72-117	1	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	95	94	80-120	1	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	87	91	65-125	4	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	88	88	75-121	0	30
Nitroglycerin	5.2	U	5.2	15	ug/l	83	88	80-120	5	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	93	92	74-120	1	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	96	94	69-107	2	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	93	92	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	108	108	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	84	87	70-125	4	30
Tetryl	0.40	U	0.40	0.60	ug/l	50*	56*	72-141	11	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	69	72	53-129	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	94	95	76-109	1	30
Batch number: 111160004A	Sample number(s): 6261694-6261698,6261700									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	116		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	107	54-134	9	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	106	54-134	9	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	114		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	110		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
HMX	100	U	100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	124*		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	96		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	112		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	114		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800	U	800.	2,400	ug/kg	124*		80-120		
RDX	50	U	50.	120	ug/kg	107		75-131		
Tetryl	61	U	61.	120	ug/kg	91		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 111100005A	Sample number(s): 6261694-6261698,6261700									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	94		80-126		
Batch number: 111110003A	Sample number(s): 6261701									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	98	96	69-130	2	30
Batch number: 111110024A	Sample number(s): 6261701,6261707									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	92*	96*	35-84	4	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	92	90	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	114	112	56-135	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111120007A	Sample number(s): 6261694-6261700,6261702-6261705									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	99	101	36-106	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	91		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	113		65-137		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111100043A	Sample number(s): 6261701									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	96	96	60-120	0	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	101	104	60-120	3	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	77	100	60-120	26	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	100	100	60-120	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	72	70	60-120	3	30
Batch number: 111110016A	Sample number(s): 6261694-6261698,6261700									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	108		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	111		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	111		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	106		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	79		66-113		
Batch number: 111090025A	Sample number(s): 6261694-6261698,6261700									
Ethanol	100	U	100.	500	ug/kg	92		71-129		
Isopropanol	100	U	100.	500	ug/kg	92		75-125		
Methanol	100	J	100.	500	ug/kg	93		68-129		
Batch number: 111100002A	Sample number(s): 6261701									
Diethylene glycol	10	U	10.	100	mg/l	105	110	78-126	5	20
Ethylene glycol	10	U	10.	100	mg/l	95	100	80-124	5	20
Propylene glycol	10	U	10.	100	mg/l	95	95	80-120	0	20
Batch number: 111100003A	Sample number(s): 6261694-6261698,6261700									
Diethylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	109		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Batch number: 111160038A	Sample number(s): 6261701									
Ethanol	200	U	200.	1,000	ug/l	104		66-132		
Isopropanol	200	U	200.	1,000	ug/l	104		75-125		
Methanol	200	U	200.	1,000	ug/l	108		71-140		
Batch number: 111100030A	Sample number(s): 6261694-6261698,6261700									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	91		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
Batch number: 111100042A	Sample number(s): 6261701									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	86	88	75-125	3	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	86	89	75-125	4	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	84	87	75-125	3	20
Batch number: 111095713004	Sample number(s): 6261701,6261707									
Mercury	0.000046	U	0.00004 6	0.00020	mg/l	96	94	80-120	3	20
Batch number: 111161026001A	Sample number(s): 6261694-6261700,6261702-6261705									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Antimony	0.0600 U	0.0600	0.200	mg/kg	121		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	102		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	103		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	107		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	108		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	104		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	104		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	103		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	106		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	106		83-110		
Vanadium	0.0532 J	0.0220	0.100	mg/kg	100		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	99		81-112		
Batch number: 111161026001B	Sample number(s): 6261694-6261700,6261702-6261705								
Selenium	0.0400 U	0.0400	0.400	mg/kg	105		83-111		
Batch number: 111161026001C	Sample number(s): 6261694-6261700,6261702-6261705								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 111161026001D	Sample number(s): 6261694-6261700,6261702-6261705								
Barium	0.108 U	0.108	0.400	mg/kg	104		81-111		
Batch number: 111165708001	Sample number(s): 6261694-6261700,6261702-6261705								
Aluminum	5.03 U	5.03	20.0	mg/kg	94		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	93		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	99		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	100		89-112		
Phosphorus	1.26 J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3 U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	102		86-110		
Tin	1.48 J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	100		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	102		80-120		
Batch number: 111165711001	Sample number(s): 6261694-6261700,6261702-6261705								
Mercury	0.0028 U	0.0028	0.0973	mg/kg	99		88-123		
Batch number: 111171848001	Sample number(s): 6261701,6261707								
Aluminum	0.0834 U	0.0834	0.200	mg/l	100	98	90-112	2	20
Boron	0.0156 J	0.0138	0.0500	mg/l	100	98	89-110	2	20
Calcium	0.0702 U	0.0702	0.200	mg/l	106	104	90-112	2	20
Iron	0.0522 U	0.0522	0.200	mg/l	108	106	90-112	2	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	101	101	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	104	102	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	105	103	90-110	2	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	103	102	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	101	99	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	101	101	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	107	106	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	102	101	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	103	90-113	2	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	104	103	80-120	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111176050001A	Sample number(s): 6261701,6261707								
Antimony	0.00030 U	0.00030	0.0010	mg/l	100	101	87-110	1	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	96	99	86-111	3	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	100	103	90-112	3	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	98	100	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	97	109	90-118	11	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	97	102	87-113	6	20
Copper	0.00038 U	0.00038	0.0020	mg/l	100	105	90-113	5	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	95	103	90-115	8	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	99	105	90-113	6	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	98	105	90-115	6	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	94	90	89-116	5	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	96	107	89-116	11	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	99	106	90-116	7	20
Batch number: 111176050001B	Sample number(s): 6261701,6261707								
Selenium	0.00025 U	0.00025	0.0020	mg/l	104	103	85-114	0	20
Batch number: 111176050001C	Sample number(s): 6261701,6261707								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	100	105	89-115	6	20
Batch number: 111176050001D	Sample number(s): 6261701,6261707								
Barium	0.00053 U	0.00053	0.0020	mg/l	100	108	88-113	8	20
Batch number: 11108196401B	Sample number(s): 6261701,6261707								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	104	103	90-110	1	20
Batch number: 11109117101B	Sample number(s): 6261701								
17b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	98	100	90-110	2	20
Batch number: 11109196601B	Sample number(s): 6261701,6261707								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	94	94	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	95	92	90-110	3	20
Batch number: 11114102201B	Sample number(s): 6261694-6261698,6261700								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	106		80-120		
Batch number: 11115196701A	Sample number(s): 6261701,6261707								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	90	96	85-115	6	20
Batch number: 11116243201A	Sample number(s): 6261694-6261700,6261702-6261705								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	100		80-120		
Batch number: 11119621201A	Sample number(s): 6261694-6261700,6261702-6261704								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	98		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	97		90-110		
Batch number: 11119621201B	Sample number(s): 6261705								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	98		90-110		
Batch number: 11124495201A	Sample number(s): 6261694-6261700,6261702-6261704								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11124495201B	Sample number(s): 6261705								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	96		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11110020002A	Sample number(s): 6261701								
18b pH by 9040B					100	100	90-110	0	1
Batch number: 11111039403A	Sample number(s): 6261694-6261700								
18a pH by 9045C					100		95-105		
Batch number: 11111039403B	Sample number(s): 6261702-6261705								
18a pH by 9045C					100		95-105		
Batch number: 11111182103A	Sample number(s): 6261694-6261700								
32a OR Potential					99		98-102		
Batch number: 11111182103B	Sample number(s): 6261702-6261705								
32a OR Potential					99		98-102		
Batch number: 11112020001A	Sample number(s): 6261707								
18b pH by 9040B					100	100	90-110	0	1
Batch number: 11119162401A	Sample number(s): 6261699,6261702-6261705								
Moisture Content by 160.3					100		80-120		
Batch number: 11124162401A	Sample number(s): 6261694-6261698,6261700								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111111AA	Sample number(s): 6261702-6261705 UNSPK: P264845								
Acetone	127	122	15-210	7	30				
Benzene	103	107	55-143	0	30				
Bromobenzene	86	97	43-139	8	30				
Bromochloromethane	109	119	60-137	5	30				
Bromodichloromethane	86	91	53-136	3	30				
Bromoform	76	77	38-124	2	30				
Bromomethane	82	87	42-168	3	30				
2-Butanone	94	92	37-163	5	30				
n-Butylbenzene	86	105	30-146	17	30				
sec-Butylbenzene	91	109	33-157	15	30				
tert-Butylbenzene	83	98	41-152	13	30				
Carbon Tetrachloride	95	98	45-153	1	30				
Chlorobenzene	89	97	49-135	5	30				
Chloroethane	80	89	39-152	7	30				
2-Chloroethyl Vinyl Ether	48	50	32-139	0	30				
Chloroform	96	101	61-142	0	30				
Chloromethane	100	100	51-163	3	30				
2-Chlorotoluene	86	99	42-146	10	30				
4-Chlorotoluene	84	98	39-145	12	30				
1,2-Dibromo-3-chloropropane	70	68	30-139	6	30				
Dibromochloromethane	80	84	51-128	2	30				
1,2-Dibromoethane	85	87	54-129	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibromomethane	85	88	57-130	0	30				
1,2-Dichlorobenzene	80	92	36-133	10	30				
1,3-Dichlorobenzene	82	95	34-134	11	30				
1,4-Dichlorobenzene	82	94	35-136	10	30				
Dichlorodifluoromethane	87	82	26-151	10	30				
1,1-Dichloroethane	100	104	63-142	1	30				
1,2-Dichloroethane	87	90	68-131	1	30				
1,1-Dichloroethene	119	120	61-149	3	30				
cis-1,2-Dichloroethene	95	100	60-136	1	30				
trans-1,2-Dichloroethene	102	105	59-142	1	30				
1,2-Dichloropropane	96	102	62-135	3	30				
1,3-Dichloropropane	87	90	58-129	0	30				
2,2-Dichloropropane	85	88	53-147	1	30				
1,1-Dichloropropene	99	103	54-145	1	30				
cis-1,3-Dichloropropene	80	89	51-131	7	30				
trans-1,3-Dichloropropene	73	79	49-129	4	30				
Ethylbenzene	88	98	44-141	7	30				
Freon 113	131	127	56-156	7	30				
Hexachlorobutadiene	77	98	10-155	19	30				
2-Hexanone	81	80	32-160	5	30				
Isopropylbenzene	86	98	38-144	9	30				
p-Isopropyltoluene	86	104	29-152	15	30				
Methyl Tertiary Butyl Ether	77	79	55-129	1	30				
4-Methyl-2-pentanone	79	76	46-139	8	30				
Methylene Chloride	103	104	61-141	3	30				
n-Propylbenzene	95	111	39-157	11	30				
Styrene	81	91	35-134	8	30				
1,1,1,2-Tetrachloroethane	83	90	52-130	4	30				
1,1,2,2-Tetrachloroethane	89	88	40-152	5	30				
Tetrachloroethene	91	99	42-149	4	30				
Toluene	94	101	50-146	3	30				
1,2,3-Trichlorobenzene	73	85	10-140	12	30				
1,2,4-Trichlorobenzene	67	79	10-136	13	30				
1,1,1-Trichloroethane	91	94	64-142	0	30				
1,1,2-Trichloroethane	88	91	54-139	1	30				
Trichloroethene	95	100	53-144	2	30				
Trichlorofluoromethane	109	109	47-163	4	30				
1,2,3-Trichloropropane	85	85	45-154	4	30				
1,2,4-Trimethylbenzene	84	99	37-149	13	30				
1,3,5-Trimethylbenzene	87	102	38-150	12	30				
Vinyl Chloride	100	102	50-154	2	30				
m+p-Xylene	87	96	44-137	7	30				
o-Xylene	81	91	42-137	8	30				
Batch number: 11110SLG026	Sample number(s): 6261694-6261698,6261700 UNSPK: P259054								
N-Nitrosodimethylamine	0*	0*	70-130	0	30				
Batch number: 11112SLA026	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P259085								
Aniline	77	82	35-95	6	30				
Benzidine	14*	24*	35-141	53*	30				
Benzoic acid	117	107	10-173	9	30				
Benzyl alcohol	97	100	67-115	3	30				
4-Bromophenyl-phenylether	89	84	67-129	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbazole	96	95	64-120	1	30				
4-Chloro-3-methylphenol	103	97	76-110	6	30				
4-Chloroaniline	60	77	23-95	25	30				
bis(2-Chloroethoxy)methane	89	91	75-104	3	30				
bis(2-Chloroethyl)ether	96	95	60-116	0	30				
bis(2-Chloroisopropyl)ether	85	85	55-142	1	30				
2-Chloronaphthalene	66	87	50-141	28	30				
2-Chlorophenol	99	98	73-121	1	30				
4-Chlorophenyl-phenylether	93	89	80-109	4	30				
Dibenzofuran	94	91	71-112	3	30				
1,2-Dichlorobenzene	86	89	66-108	4	30				
1,3-Dichlorobenzene	82	83	63-109	1	30				
1,4-Dichlorobenzene	85	86	70-100	1	30				
3,3'-Dichlorobenzidine	49	52	16-119	6	30				
2,4-Dichlorophenol	93	93	78-117	0	30				
2,4-Dimethylphenol	94	93	78-110	0	30				
3,5-Dimethylphenol	102	103	70-130	1	30				
4,6-Dinitro-2-methylphenol	81	72	24-116	11	30				
2,4-Dinitrophenol	71	50	20-143	35*	30				
2,4-Dinitrotoluene	99	101	73-113	3	30				
2,6-Dinitrotoluene	100	96	69-123	4	30				
1,2-Diphenylhydrazine	91	90	71-129	1	30				
bis(2-Ethylhexyl)phthalate	107	99	63-122	7	30				
Fluoranthene	95	93	73-112	2	30				
Hexachlorobenzene	88	88	77-114	0	30				
Hexachlorobutadiene	79	77	62-120	2	30				
Hexachlorocyclopentadiene	45	56	10-153	22	30				
Hexachloroethane	76	78	57-109	3	30				
Isophorone	92	93	73-102	1	30				
2-Methylphenol	98	99	75-111	1	30				
4-Methylphenol	98	96	71-111	2	30				
2-Nitroaniline	110	105	67-125	4	30				
3-Nitroaniline	100	95	59-122	5	30				
4-Nitroaniline	80	83	52-112	3	30				
Nitrobenzene	93	92	72-106	1	30				
2-Nitrophenol	90	99	74-115	10	30				
4-Nitrophenol	88	81	54-113	8	30				
N-Nitroso-di-n-propylamine	90	93	60-116	3	30				
N-Nitrosodiphenylamine	93	91	86-145	2	30				
Pentachlorophenol	83	79	28-127	5	30				
Phenanthrene	91	90	65-125	1	30				
Phenol	99	102	58-126	3	30				
Pyrene	100	98	74-126	3	30				
1,2,4-Trichlorobenzene	88	84	72-115	4	30				
2,4,5-Trichlorophenol	92	96	78-109	4	30				
2,4,6-Trichlorophenol	92	87	77-115	6	30				
Batch number: 11116SLA026	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845								
Acenaphthene	84	87	63-105	3	30				
Acenaphthylene	84	89	67-114	6	30				
Anthracene	88	93	60-122	6	30				
Benzo(a)anthracene	92	95	59-128	3	30				
Benzo(a)pyrene	102	108	45-138	6	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(b)fluoranthene	107	116	43-155	8	30				
Benzo(g,h,i)perylene	116	115	33-141	2	30				
Benzo(k)fluoranthene	109	117	42-144	7	30				
Butylbenzylphthalate	99	102	57-173	2	30				
Di-n-butylphthalate	92	95	65-148	3	30				
Chrysene	93	98	48-134	5	30				
Dibenz(a,h)anthracene	111	102	22-133	8	30				
Diethylphthalate	78	80	70-136	2	30				
Dimethylphthalate	94	97	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	108	112	39-167	3	30				
Fluoranthene	90	94	26-166	5	30				
Fluorene	90	93	66-122	3	30				
Indeno(1,2,3-cd)pyrene	114	108	21-143	6	30				
1-Methylnaphthalene	86	91	72-123	5	30				
2-Methylnaphthalene	76	81	64-103	6	30				
Naphthalene	82	88	61-102	7	30				
N-Nitrosodimethylamine	91	93	48-113	3	30				
Di-n-octylphthalate	116	127	40-192	9	30				
Phenanthrene	91	94	12-165	3	30				
Pyrene	96	100	15-153	4	30				
Batch number: 111160004A	Sample number(s): 6261694-6261698,6261700 UNSPK: P262830								
4-Amino-2,6-Dinitrotoluene	102	108	80-127	5	50				
2-Amino-4,6-Dinitrotoluene	100	107	80-137	6	50				
1,3-Dinitrobenzene	102	108	38-166	5	50				
2,4-Dinitrotoluene	99	105	80-131	6	50				
2,6-Dinitrotoluene	104	110	80-127	5	50				
HMX	91	99	63-128	8	50				
Nitrobenzene	98	109	80-125	11	50				
Nitroglycerin	94	99	80-120	6	50				
2-Nitrotoluene	101	106	80-122	4	50				
3-Nitrotoluene	105	110	72-119	4	50				
4-Nitrotoluene	100	104	80-125	4	50				
PETN	113	121	80-121	7	50				
RDX	93	97	75-129	5	50				
Tetryl	92	92	55-174	0	50				
1,3,5-Trinitrobenzene	99	105	82-126	6	50				
2,4,6-Trinitrotoluene	101	106	82-130	5	50				
Batch number: 111100005A	Sample number(s): 6261694-6261698,6261700 UNSPK: P259054								
25a Formaldehyde 8315A	94	89	80-120	5	50				
Batch number: 111120007A	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: 6261694								
PCB-1016	98	92	29-146	6	50				
PCB-1260	121	115	39-149	5	50				
Batch number: 111110016A	Sample number(s): 6261694-6261698,6261700 UNSPK: P259054								
EFH (C12-C14)	124*	169*	49-123	30*	20				
EFH (C15-C20)	-63 (2)	-59 (2)	49-123	1	20				
EFH (C21-C30)	-161 (2)	1080 (2)	49-123	55*	20				
EFH (C30 - C40)	-738 (2)	1327 (2)	49-123	42*	20				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C8-C11)	88	95	49-123	7	20				
Batch number: 111090025A	Sample number(s): 6261694-6261698,6261700 UNSPK: 6261697								
Ethanol	63	61	48-130	3	20				
Isopropanol	66	66	12-149	0	20				
Methanol	53	53	43-138	0	20				
Batch number: 111100003A	Sample number(s): 6261694-6261698,6261700 UNSPK: P259058								
Diethylene glycol	78	92	59-109	16	20				
Ethylene glycol	91	95	63-107	3	20				
Propylene glycol	93	93	63-107	0	20				
Batch number: 111160038A	Sample number(s): 6261701 UNSPK: P262150								
Ethanol	96	100	62-145	4	20				
Isopropanol	100	100	73-131	0	20				
Methanol	96	96	52-159	0	20				
Batch number: 111100030A	Sample number(s): 6261694-6261698,6261700 UNSPK: P259054								
m-Terphenyl	85	83	75-125	2	20				
o-Terphenyl	92	88	75-125	4	20				
p-Terphenyl	85	86	75-125	1	20				
Batch number: 111161026001A	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845 BKG: P264845								
Antimony	51*	41*	75-125	16	20	0.171 J	0.116 J	38* (1)	20
Arsenic	107	68*	75-125	14	20	3.89	3.34	15	20
Beryllium	100	95	75-125	3	20	0.628	0.619	1	20
Cadmium	110	109	75-125	1	20	0.0385 U	0.0448 J	200* (1)	20
Chromium	101	102	75-125	1	20	15.9	16.2	2	20
Cobalt	107	101	75-125	5	20	5.67	6.01	6	20
Copper	105	105	75-125	0	20	6.43	6.73	5	20
Lead	118	105	75-125	5	20	4.72	4.64	2	20
Nickel	118	102	75-125	7	20	11.0	11.4	4	20
Silver	105	101	75-125	4	20	0.0327 J	0.0318 J	3 (1)	20
Thallium	113	118	75-125	3	20	0.232	0.230	1 (1)	20
Vanadium	130*	96	75-125	8	20	31.8	32.3	1	20
Zinc	117 (2)	77 (2)	75-125	7	20	45.0	45.4	1	20
Batch number: 111161026001B	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845 BKG: P264845								
Selenium	99	97	75-125	2	20	0.111 J	0.0731 J	41* (1)	20
Batch number: 111161026001C	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845 BKG: P264845								
Molybdenum	102	98	75-125	4	20	0.557	0.557	0	20
Batch number: 111161026001D	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845 BKG: P264845								
Barium	166 (2)	95 (2)	75-125	6	20	96.6	94.4	2	20
Batch number: 111165708001	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845 BKG: P264845								
Aluminum	1832 (2)	2092 (2)	75-125	3	20	16,900	17,500	3	20
Boron	100	100	84-115	1	20	1.71 J	1.21 J	34* (1)	20
Calcium	132 (2)	143 (2)	75-125	2	20	1,800	1,840	2	20
Iron	1186 (2)	1510 (2)	75-125	2	20	17,700	18,300	3	20

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Lithium	103	104	82-114	2	20	21.3		21.9		3	20
Magnesium	218 (2)	241 (2)	75-125	1	20	3,640		3,740		3	20
Manganese	171 (2)	189 (2)	75-125	3	20	270		291		7	20
Phosphorus	97	98	75-125	1	20	208		205		1	20
Potassium	131*	139*	75-125	3	20	2,110		2,080		2	20
Sodium	100	99	75-125	0	20	103		107		3 (1)	20
Strontium	98	99	75-115	1	20	18.9		19.4		3	20
Tin	88	88	80-110	1	20	2.30	J	2.30	J	0 (1)	20
Titanium	261 (2)	292 (2)	75-125	3	20	991		1,030		4	20
Zirconium	98	99	75-125	2	20	1.51	J	2.94	J	64* (1)	20
Batch number: 111165711001	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845 BKG: P264845										
Mercury	88	88	65-135	3	20	0.0175	J	0.0059	J	99* (1)	20
Batch number: 11114102201B	Sample number(s): 6261694-6261698,6261700 UNSPK: 6261700 BKG: 6261700										
17a Cyanide by 9012B	108		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11116243201A	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P259085 BKG: P259085										
3a Cr VI by EPA 7199	96		75-125			0.48	J	0.78	J	48* (1)	20
Batch number: 11119621201A	Sample number(s): 6261694-6261700,6261702-6261704 UNSPK: 6261694 BKG: 6261694										
11a Anions by 300.0 - Fluoride	75*		80-120			1.8		1.7		5 (1)	20
11a Anions by 300.0 - Nitrate	88		80-120			3.1		2.8		9 (1)	20
Batch number: 11119621201B	Sample number(s): 6261705 UNSPK: 6261705 BKG: 6261705										
11a Anions by 300.0 - Fluoride	36*		80-120			1.7		1.6		6 (1)	20
Batch number: 11124495201A	Sample number(s): 6261694-6261700,6261702-6261704 UNSPK: 6261694 BKG: 6261694										
7a Perchlorate EPA 314.0	102		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11124495201B	Sample number(s): 6261705 UNSPK: P264819 BKG: P264819										
7a Perchlorate EPA 314.0	89		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11111039403A	Sample number(s): 6261694-6261700 BKG: P260136										
18a pH by 9045C						6.63		6.60		0	1
Batch number: 11111039403B	Sample number(s): 6261702-6261705 BKG: 6261702										
18a pH by 9045C						6.16		6.19		0	1
Batch number: 11111182103A	Sample number(s): 6261694-6261700 BKG: P260136										
32a OR Potential						349		350		0	6
Batch number: 11111182103B	Sample number(s): 6261702-6261705 BKG: 6261702										
32a OR Potential						373		379		1	6
Batch number: 11119162401A	Sample number(s): 6261699,6261702-6261705 BKG: P262838										
Moisture Content by 160.3						14.0		14.0		0	20
Batch number: 11124162401A	Sample number(s): 6261694-6261698,6261700 BKG: 6261697										
Moisture Content by 160.3						17.6		20.0		13	20

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111111AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6261702	99	98	101	88
6261703	98	96	100	89
6261704	99	99	100	89
6261705	99	99	100	88
Blank	101	104	100	89
LCS	98	98	104	97
LCSD	98	99	104	97
MS	99	103	103	99
MSD	98	98	103	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111101AA

	Toluene-d8
6261706	100
6261707	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111102AA

	Toluene-d8
6261702	97
6261703	97
6261704	97
6261705	97
Blank	97
LCS	97
LCSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111121AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6261706	111	101	98	96
6261707	112	100	97	98
Blank	109	102	99	98
LCS	114	104	97	99
LCSD	112	102	97	99
Limits:	86-118	80-120	88-110	86-115

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

Analysis Name: 15a NDMA by 1625C
Batch number: 11110SLG026

	N-Nitrosodimethylamine-d6
6261694	124
6261695	90
6261696	150
6261697	106
6261698	98
6261700	89
Blank	68
LCS	61
MS	89
MSD	92
Limits:	50-150

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11110WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6261701	103	91	103
6261707	108	93	105
Blank	95	94	106
LCS	100	94	97
LCSD	98	92	98
Limits:	64-147	68-132	53-129

Analysis Name: 15b NDMA by 1625C
Batch number: 11110WAF026

	N-Nitrosodimethylamine-d6
6261701	171*
Blank	82
LCS	141
LCSD	97
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11112SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6261694	96	94	108	81	84	91
6261695	90	85	102	83	78	85
6261696	103	100	110	85	89	88
6261697	90	88	103	83	84	83
6261698	96	91	101	87	87	85
6261699	85	86	108	84	79	84
6261700	96	93	106	86	88	84
6261702	98	94	114	87	84	87
6261703	85	81	114	87	80	86
6261704	90	87	104	86	82	84

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

6261705	94	89	113	86	85	89
Blank	94	94	105	85	86	95
LCS	100	97	106	87	87	90
MS	103	102	106	90	86	92
MSD	105	101	106	88	83	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11112WAJ026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6261701	56	34	86	93	94	85
6261707	59	34	97	92	91	85
Blank	70	46	98	98	94	86
LCS	66	41	101	97	96	87
LCSD	66	41	96	95	92	84
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11116SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6261694	94	85	80
6261695	93	85	82
6261696	99	89	78
6261697	96	90	80
6261698	95	84	76
6261699	93	86	79
6261700	92	84	85
6261702	94	87	89
6261703	92	84	88
6261704	86	81	87
6261705	88	83	89
Blank	85	86	94
LCS	91	84	87
MS	91	84	89
MSD	92	85	88
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11116B20A

	Trifluorotoluene-F
6261706	72
Blank	75
LCS	114
LCSD	109
Limits:	63-135

Analysis Name: 16b Energetics by 8330A
Batch number: 111090002A

	2-Nitro-m-xylene

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

6261701	65
Blank	80
LCS	77
LCSD	62
Limits:	50-134

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111100005A

	Butyraldehyde
6261694	112
6261695	104
6261696	111
6261697	104
6261698	103
6261700	105
Blank	109
LCS	105
MS	112
MSD	103
Limits:	64-126

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111110003A

	Butyraldehyde
6261701	114
Blank	111
LCS	111
LCSD	108
Limits:	45-145

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111110024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6261701	104	104
6261707	104	125*
Blank	112	114
LCS	104	103
LCSD	109	115
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111120007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6261694	103	109
6261695	106	118
6261696	109	119
6261697	106	110
6261698	109	135*
6261699	107	118

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

6261700	97	107
6261702	98	112
6261703	109	129*
6261704	107	132*
6261705	103	130*
Blank	102	117
LCS	101	113
LCSD	107	121*
MS	105	109
MSD	97	108
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111160004A

	2-Nitro-m-xylene
6261694	102
6261695	100
6261696	106
6261697	104
6261698	97
6261700	108
Blank	109
LCS	101
LCSD	107
MS	98
MSD	101
Limits:	80-146

Analysis Name: 19a Alcohols by 8015B
Batch number: 111090025A

	Acetone
6261694	72
6261695	76
6261696	72
6261697	67
6261698	71
6261700	77
Blank	94
LCS	91
MS	73
MSD	73
Limits:	42-138

Analysis Name: 21b Glycols by 8015B
Batch number: 111100002A

	Tetramethylene glycol
6261701	101
Blank	102
LCS	105
LCSD	106

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

Limits: 77-119

Analysis Name: 21a Glycols by 8015B
Batch number: 111100003A

	Tetramethylene glycol
6261694	64
6261695	98
6261696	65
6261697	59
6261698	91
6261700	123
Blank	104
LCS	104
MS	110
MSD	91

Limits: 29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111100030A

	n-Triacontane-d62
6261694	66
6261695	65
6261696	64
6261697	65
6261698	66
6261700	65
Blank	103
LCS	77
MS	118
MSD	218*

Limits: 50-150

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111100042A

	n-Triacontane-d62
6261701	75
Blank	71
LCS	68
LCSD	69

Limits: 50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111100043A

	Chlorobenzene	Orthoterphenyl
6261701	82	91
Blank	72	81
LCS	85	98
LCSD	85	100

Limits: 28-152 52-131

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111110016A

	Chlorobenzene	Orthoterphenyl
6261694	73	94
6261695	68	94
6261696	81	110
6261697	81	90
6261698	94	112
6261700	89	98
Blank	95	87
LCS	84	98
MS	86	103
MSD	88	97
Limits:	37-125	47-145

Analysis Name: 19b Alcohols by 8015B
Batch number: 111160038A

	Acetone
6261701	99
Blank	101
LCS	96
MS	96
MSD	94
Limits:	54-147

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1242769 6261694-707

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
SL-056-SA8N-SS-0.0-0.5	04.18.11	1055	SOIL	NONE	2-16 oz jars		X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-056-SA8N-SS-0.0-0.5	04.18.11	1055	SOIL	NONE	1 SS sleeve				X	X															
SL-057-SA8N-SS-0.0-0.5	04.18.11	1010	SOIL	NONE	2-16 oz jars		X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-057-SA8N-SS-0.0-0.5	04.18.11	1010	SOIL	NONE	1 SS sleeve				X	X															
SL-071-SA8N-SS-0.0-0.5	04.18.11	0835	SOIL	NONE	2-16 oz jars		X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-071-SA8N-SS-0.0-0.5	04.18.11	0835	SOIL	NONE	1 SS sleeve				X	X															
SL-080-SA8N-SS-0.0-0.5	04.18.11	1030	SOIL	NONE	2-16 oz jars		X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-080-SA8N-SS-0.0-0.5	04.18.11	1030	SOIL	NONE	1 SS sleeve				X	X															
SL-085-SA8N-SS-0.0-0.5	04.18.11	0815	SOIL	NONE	2-16 oz jars		X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-085-SA8N-SS-0.0-0.5	04.18.11	0815	SOIL	NONE	1 SS sleeve				X	X															
SL-086-SA8N-SS-0.0-0.5	04.15.11	1255	SOIL	NONE	1-16 oz jars		X	X			X	X	X	X											
SL-086-SA8N-SS-0.0-0.5	04.15.11	1255	SOIL	NONE	1 SS sleeve				X	X															
SL-132-SA8N-SS-0.0-0.5	04.18.11	1400	SOIL	NONE	2-16 oz jars		X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-132-SA8N-SS-0.0-0.5	04.18.11	1400	SOIL	NONE	1 SS sleeve				X	X															

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/18/2011 / 1700	4/19/11 950	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8700 5932 2930	

13013 1242769 6261694-707

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which tincores were collected						*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxins/Furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	*pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TRH-ERH EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Total Hydrazine EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																					
EB05-SA8N-SS-041811	04.18.11	1200	WATER	NONE	7-1 liter ambers			X	X	X																
EB05-SA8N-SS-041811	04.18.11	1200	WATER	NONE	1-500 mL poly		X				X	X	X													
EB05-SA8N-SS-041811	04.18.11	1200	WATER	HNO3	1-500 mL poly	X																				
EB05-SA8N-SS-041811	04.18.11	1200	WATER	NONE	5-1 liter ambers												X			X	X		X			
EB05-SA8N-SS-041811	04.18.11	1200	WATER	NaOH	1-500 mL glass																	X				
EB05-SA8N-SS-041811	04.18.11	1200	WATER	NONE	1-250 mL glass														X							
EB05-SA8N-SS-041811	04.18.11	1200	WATER	HCl	2-40 mL vials																				X	
EB05-SA8N-SS-041811	04.18.11	1200	WATER	NONE	4-40 mL vials													X						X		

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	04/18/2011 / 1700	4/19/11 950	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8700 5932 2941, 2952	

13013 1242769 6261694-707

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP § Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals: EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tephenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-032-SA5A-SB-3.5	04.18.11	0910	SOIL	NONE	4-Encores										X	X											
SL-032-SA5A-SB-3.0-4.0	04.18.11	0914	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-172-SA5A-SB-4.5	04.18.11	1543	SOIL	NONE	4-Encores										X	X											
SL-172-SA5A-SB-4.0-5.0	04.18.11	1545	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-174-SA5A-SB-2.5	04.18.11	1510	SOIL	NONE	4-Encores										X	X											
SL-174-SA5A-SB-2.0-3.0	04.18.11	1505	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-254-SA5A-SB-3.0	04.18.11	1247	SOIL	NONE	4-Encores										X	X											
SL-254-SA5A-SB-2.5-3.5	04.18.11	1245	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
TB-041811	04.18.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/18/2011 / 1700		Received for Laboratory by: (Signature) 4/19/11 950																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8700 5932 2952, 2963																								

13013 1242769 6261694-707

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS										VOCs			
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:							*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers															
EB13-SA5A-SB-041811	04.18.11	1330	WATER	NONE	5-1L amber bottles				X	X	X	X								
EB13-SA5A-SB-041811	04.18.11	1330	WATER	HCl	6-40mL VOA vials												X	X		VOCs were added per PH. NLM 4/21/11
EB13-SA5A-SB-041811	04.18.11	1330	WATER	NONE	1-500mL poly			X					X	X	X					
EB13-SA5A-SB-041811	04.18.11	1330	WATER	HNO3	1-500mL poly		X													
Relinquished by: (*Signature*)	Date/Time 04/18/2011 / 1700		Received for Laboratory by: (*Signature*) 4/19/11 950																Laboratory: Lancaster Laboratories, Inc.	
Received by: (*Signature*)	Date/Time		Airbill No(s) 8700 5932 2963, 2952																	

Nicole Maljovec 13013/ 1242769/ 62G1694-707

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Tuesday, April 19, 2011 11:17 AM
To: Nicole Maljovec
Subject: RE: 4/14 COC: DUP14-SA5C-QC-041411

Attachments: COC_subsurfaceEB_correction_04 18 11.pdf

COC_subsurfaceEB _correction_04...

Good Morning Nicole

It should be SA5A, thanks! Should I send you an updated COC? I have one more small error from yesterday's COC- EB13-SA5A-QC-041811 should also be checked for VOC's in addition to 1,4 Dioxane. I have attached a spreadshreet with the correction in red.

Thank you!!

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Tuesday, April 19, 2011 8:14 AM
To: Hartman, Pamela
Subject: 4/14 COC: DUP14-SA5C-QC-041411

Good morning Pam,
When you get a chance, can you check the ID for DUP14? It has SA5C, but all of the other locations are SA5A.

Thanks!
Nicole

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/20/2011
Group Number: 1242943
SDG: DE131
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-075-SA8N-SS-0.0-0.5 Soil	6262819
SL-076-SA8N-SS-0.0-0.5 Soil	6262820
SL-077-SA8N-SS-0.0-0.5 Soil	6262821
SL-092-SA8N-SS-0.0-0.5 Soil	6262822
SL-093-SA8N-SS-0.0-0.5 Soil	6262823
SL-094-SA8N-SS-0.0-0.5 Soil	6262824
SL-095-SA8N-SS-0.0-0.5 Soil	6262825
SL-096-SA8N-SS-0.0-0.5 Soil	6262826
SL-097-SA8N-SS-0.0-0.5 Soil	6262827
SL-122-SA8N-SS-0.0-0.5 Soil	6262828
SL-135-SA8N-SS-0.0-0.5 Soil	6262829
SL-138-SA8N-SS-0.0-0.5 Soil	6262830
SL-138-SA8N-SS-0.0-0.5MS Soil	6262831
SL-138-SA8N-SS-0.0-0.5MSD Soil	6262832
SL-138-SA8N-SS-0.0-0.5DUP Soil	6262833
SL-139-SA8N-SS-0.0-0.5 Soil	6262834
SL-140-SA8N-SS-0.0-0.5 Soil	6262835
DUP04-SA8N-QC-041911 Soil	6262836
SL-171-SA5A-SB-2.0-3.0 Soil	6262837
SL-126-SA5A-SB-4.0-5.0 Soil	6262838
SL-127-SA5A-SB-2.0-3.0 Soil	6262839
TB-041911 Water	6262840
EB06-SA8N-SS-041911 Water	6262841
EB14-SA5A-SB-041911 Water	6262842

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	303	J	194	388		10
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-075-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	1.2	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

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Sample Description: SL-075-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.1		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	5.6		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,500		5.86	23.3		1
07914	Boron	7440-42-8	7.50		1.04	5.82		1
01650	Calcium	7440-70-2	46,000		7.14	23.3		1
01654	Iron	7439-89-6	29,600		5.48	23.3		1
01656	Lithium	7439-93-2	28.2		0.26	2.3		1
01657	Magnesium	7439-95-4	8,090		2.96	11.6		1
06958	Manganese	7439-96-5	378		0.0908	0.582		1
10145	Phosphorus	7723-14-0	619		0.652	11.6		1
01662	Potassium	7440-09-7	6,100		21.0	58.2		1
01667	Sodium	7440-23-5	162		43.4	116		1
07968	Strontium	7440-24-6	86.2		0.0722	0.582		1
06969	Tin	7440-31-5	2.35	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,260		0.442	1.16		1
10146	Zirconium	7440-67-7	3.10	J	0.978	5.82		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0702	J	0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.13		0.0922	0.461		2
06126	Barium	7440-39-3	127		0.124	0.461		2
06127	Beryllium	7440-41-7	0.797		0.0184	0.115		2

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Sample Description: **SL-075-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.350		0.0461	0.115		2
06131	Chromium	7440-47-3	35.0		0.138	0.461		2
06132	Cobalt	7440-48-4	12.5		0.0231	0.115		2
06133	Copper	7440-50-8	19.1		0.0761	0.461		2
06135	Lead	7439-92-1	10.8		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.519		0.0576	0.115		2
06139	Nickel	7440-02-0	22.2		0.115	0.461		2
06141	Selenium	7782-49-2	0.315	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0324	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.393		0.0346	0.115		2
06148	Vanadium	7440-62-2	68.6		0.0254	0.115		2
06149	Zinc	7440-66-6	87.9		0.645	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0139	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	30.1		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	484		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.45		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-075-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 12:57	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 12:42	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	04/30/2011 02:20	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 15:28	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 03:21	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/27/2011 21:35	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 11:42	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 18:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111110008A	04/21/2011 21:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 14:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111110008A	04/21/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-075-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 17:50	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 10:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201A	05/03/2011 10:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 14:08	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 20:55	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:01	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	805		188	375		10
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1

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Sample Description: SL-076-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	2.3		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1

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Sample Description: **SL-076-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	18		5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	18		5
10225	Aroclor 5460	11126-42-4	7.5	J	5.6	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.5		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.5		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.5		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.5		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.5		5
10225	PCB-1254	11097-69-1	28		1.8	9.5		5
10225	PCB-1260	11096-82-5	2.2	U	2.2	9.5		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.5		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.5		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	1.3	J	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	11		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	35		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,900		5.60	22.3		1
07914	Boron	7440-42-8	1.64	J	0.991	5.57		1
01650	Calcium	7440-70-2	3,380		6.83	22.3		1
01654	Iron	7439-89-6	24,700		5.25	22.3		1
01656	Lithium	7439-93-2	25.9		0.25	2.2		1
01657	Magnesium	7439-95-4	4,890		2.83	11.1		1
06958	Manganese	7439-96-5	330		0.0869	0.557		1
10145	Phosphorus	7723-14-0	307		0.624	11.1		1
01662	Potassium	7440-09-7	3,840		20.0	55.7		1
01667	Sodium	7440-23-5	166		41.5	111		1
07968	Strontium	7440-24-6	23.6		0.0691	0.557		1
06969	Tin	7440-31-5	2.56	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,190		0.423	1.11		1
10146	Zirconium	7440-67-7	2.78	J	0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.90		0.0900	0.450		2
06126	Barium	7440-39-3	123		0.121	0.450		2
06127	Beryllium	7440-41-7	0.844		0.0180	0.112		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.213		0.0450	0.112		2
06131	Chromium	7440-47-3	26.4		0.135	0.450		2
06132	Cobalt	7440-48-4	9.36		0.0225	0.112		2
06133	Copper	7440-50-8	14.4		0.0742	0.450		2
06135	Lead	7439-92-1	8.49		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.868		0.0562	0.112		2
06139	Nickel	7440-02-0	17.0		0.112	0.450		2
06141	Selenium	7782-49-2	0.250	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0497	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.375		0.0337	0.112		2
06148	Vanadium	7440-62-2	49.9		0.0247	0.112		2
06149	Zinc	7440-66-6	75.4		0.630	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0303	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	463		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.46		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-076-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 13:08	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 13:08	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	04/30/2011 02:52	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 16:10	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 03:30	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/27/2011 21:53	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 15:52	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 18:26	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111110008A	04/21/2011 21:23	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 14:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111110008A	04/21/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:00	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 15:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 11:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201A	05/03/2011 11:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 15:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11126243201A	05/09/2011 21:14	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:03	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-077-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262821
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13103 SDG#: DE131-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	575		215	429		10

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at a concentration of 840 ng/kg. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	210	U	210	640		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200		1
04688	Benzoic acid	65-85-0	210	U	210	640		1
04688	Benzyl alcohol	100-51-6	210	U	210	640		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210		1
04688	4-Chloroaniline	106-47-8	85	U	85	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	420		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210		1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	640		1
04688	2,4-Dinitrophenol	51-28-5	420	U	420	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	43	J	21	420		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	85	U	85	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	640		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	42	U	42	210		1
04688	4-Methylphenol	106-44-5	42	U	42	210		1

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Sample Description: SL-077-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262821
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13103 SDG#: DE131-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	42	U	42	210		1
04688	4-Nitroaniline	100-01-6	85	U	85	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	640		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	640		1
04688	Phenol	108-95-2	21	U	21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210		1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.86	U	0.86	2.1		1
10138	Acenaphthylene	208-96-8	0.43	U	0.43	2.1		1
10138	Anthracene	120-12-7	0.43	U	0.43	2.1		1
10138	Benzo(a)anthracene	56-55-3	0.86	U	0.86	2.1		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.86	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.86	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9	J	0.86	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	0.89	J	0.86	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.7	U	7.7	23		1
10138	Di-n-butylphthalate	84-74-2	7.7	U	7.7	23		1
10138	Chrysene	218-01-9	3.0		0.43	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.86	U	0.86	2.1		1
10138	Diethylphthalate	84-66-2	7.7	U	7.7	23		1
10138	Dimethylphthalate	131-11-3	7.7	U	7.7	23		1
10138	Fluoranthene	206-44-0	2.7		0.86	2.1		1
10138	Fluorene	86-73-7	0.86	U	0.86	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.86	2.1		1
10138	1-Methylnaphthalene	90-12-0	0.86	U	0.86	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.86	U	0.86	2.1		1
10138	Naphthalene	91-20-3	1.3	J	0.86	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.86	U	0.86	2.1		1
10138	Di-n-octylphthalate	117-84-0	10	J	7.7	23		1
10138	Phenanthrene	85-01-8	2.0	J	0.86	2.1		1
10138	Pyrene	129-00-0	1.9	J	0.86	2.1		1

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Sample Description: **SL-077-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262821
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13103 SDG#: DE131-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	76	U	76	150	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	50	U	50	150	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	100	U	100	300	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	100	U	100	300	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	50	U	50	150	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	50	U	50	150	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	50	U	50	150	10000000	1
10132	HMX	2691-41-0	130	U	130	380	10000000	1
10132	Nitrobenzene	98-95-3	50	U	50	150	10000000	1
10132	Nitroglycerin	55-63-0	1,000	U	1,000	3,000	10000000	1
10132	2-Nitrotoluene	88-72-2	100	U	100	150	10000000	1
10132	3-Nitrotoluene	99-08-1	130	U	130	150	10000000	1
10132	4-Nitrotoluene	99-99-0	100	U	100	150	10000000	1
10132	PETN	78-11-5	1,000	U	1,000	3,000	10000000	1
10132	RDX	121-82-4	63	U	63	150	10000000	1
10132	Tetryl	479-45-8	77	U	77	150	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	50	U	50	150	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	50	U	50	150	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	770	U	770	1,900		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	6.4	U	6.4	21		5
10225	Aroclor 5442	12642-23-8	6.4	U	6.4	21		5
10225	Aroclor 5460	11126-42-4	6.4	U	6.4	21		5
10225	PCB-1016	12674-11-2	2.1	U	2.1	11		5
10225	PCB-1221	11104-28-2	2.1	U	2.1	11		5
10225	PCB-1232	11141-16-5	2.1	U	2.1	11		5
10225	PCB-1242	53469-21-9	2.1	U	2.1	11		5
10225	PCB-1248	12672-29-6	2.1	U	2.1	11		5

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SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262821
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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13103 SDG#: DE131-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	28		2.1	11		5
10225	PCB-1260	11096-82-5	2.5	U	2.5	11		5
10225	PCB-1262	37324-23-5	2.1	U	2.1	11		5
10225	PCB-1268	11100-14-4	2.1	U	2.1	11		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.51	U	0.51	1.5		1
10199	EFH (C15-C20)	n.a.	0.99	J	0.51	1.5		1
10199	EFH (C21-C30)	n.a.	8.7		0.51	1.5		1
10199	EFH (C30 - C40)	n.a.	34		0.51	1.5		1
10199	EFH (C8-C11)	n.a.	0.51	U	0.51	1.5		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	130	U	130	640		1
10501	Isopropanol	67-63-0	130	U	130	640		1
10501	Methanol	67-56-1	130	U	130	640		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.4	U	6.4	16		1
08283	Ethylene glycol	107-21-1	6.4	U	6.4	16		1
08283	Propylene glycol	57-55-6	6.4	U	6.4	16		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.9	U	1.9	4.5		1
10318	o-Terphenyl	84-15-1	1.9	U	1.9	4.5		1
10318	p-Terphenyl	92-94-4	1.9	U	1.9	4.5		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,200		6.41	25.5		1
07914	Boron	7440-42-8	2.67	J	1.13	6.37		1
01650	Calcium	7440-70-2	6,600		7.81	25.5		1
01654	Iron	7439-89-6	25,400		6.00	25.5		1
01656	Lithium	7439-93-2	24.9		0.28	2.5		1
01657	Magnesium	7439-95-4	5,790		3.24	12.7		1
06958	Manganese	7439-96-5	439		0.0994	0.637		1
10145	Phosphorus	7723-14-0	616		0.714	12.7		1
01662	Potassium	7440-09-7	4,750		22.9	63.7		1
01667	Sodium	7440-23-5	131		47.5	127		1
07968	Strontium	7440-24-6	30.6		0.0790	0.637		1
06969	Tin	7440-31-5	3.00	J	1.27	12.7		1
06970	Titanium	7440-32-6	1,380		0.484	1.27		1
10146	Zirconium	7440-67-7	3.17	J	1.07	6.37		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0750	U	0.0750	0.250		2

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Sample Description: SL-077-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262821
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13103 SDG#: DE131-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.57		0.100	0.500		2
06126	Barium	7440-39-3	198		0.135	0.500		2
06127	Beryllium	7440-41-7	0.866		0.0200	0.125		2
06128	Cadmium	7440-43-9	0.390		0.0500	0.125		2
06131	Chromium	7440-47-3	31.9		0.150	0.500		2
06132	Cobalt	7440-48-4	11.4		0.0250	0.125		2
06133	Copper	7440-50-8	18.9		0.0825	0.500		2
06135	Lead	7439-92-1	17.2		0.0130	0.250		2
06138	Molybdenum	7439-98-7	0.778		0.0625	0.125		2
06139	Nickel	7440-02-0	21.5		0.125	0.500		2
06141	Selenium	7782-49-2	0.490	J	0.0500	0.500		2
06142	Silver	7440-22-4	0.0695	J	0.0150	0.125		2
06145	Thallium	7440-28-0	0.422		0.0375	0.125		2
06148	Vanadium	7440-62-2	59.6		0.0275	0.125		2
06149	Zinc	7440-66-6	103		0.700	3.75		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0977	J	0.0036	0.124		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		1.0	1.3		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	U	1.0	1.9		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.6	U	11.6	38.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	U	0.26	1.3		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.23	U	0.23	0.65		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	475		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.46		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	22.3		0.50	0.50		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-077-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262821
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
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14420 Albemarle Point Place
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13103 SDG#: DE131-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 13:24	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 13:35	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 07:47	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 16:52	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 03:40	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/27/2011 22:12	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 16:17	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 18:41	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111110008A	04/21/2011 21:40	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 15:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111110008A	04/21/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1

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Sample Description: **SL-077-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262821
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13103 SDG#: DE131-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:04	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 11:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201A	05/03/2011 11:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 15:36	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 21:20	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:04	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-077-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262821
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13103 SDG#: DE131-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-092-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13104 SDG#: DE131-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	186	U	186	372		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	510		37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-092-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13104 SDG#: DE131-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	1.6	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	1.6	J	0.74	1.9		1
10138	Fluorene	86-73-7	1.7	J	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	J	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	1.2	J	0.74	1.9		1
10138	Pyrene	129-00-0	1.0	J	0.74	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1

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Sample Description: SL-092-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13104 SDG#: DE131-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,300	U	1,300	3,300		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.2	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: SL-092-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
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13104 SDG#: DE131-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.89	U	0.89	2.7		2
10199	EFH (C15-C20)	n.a.	3.7		0.89	2.7		2
10199	EFH (C21-C30)	n.a.	13		0.89	2.7		2
10199	EFH (C30 - C40)	n.a.	39		0.89	2.7		2
10199	EFH (C8-C11)	n.a.	0.89	U	0.89	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000		5.61	22.3		1
07914	Boron	7440-42-8	0.993	U	0.993	5.58		1
01650	Calcium	7440-70-2	3,180		6.84	22.3		1
01654	Iron	7439-89-6	21,100		5.26	22.3		1
01656	Lithium	7439-93-2	24.6		0.25	2.2		1
01657	Magnesium	7439-95-4	4,430		2.83	11.2		1
06958	Manganese	7439-96-5	423		0.0871	0.558		1
10145	Phosphorus	7723-14-0	524		0.625	11.2		1
01662	Potassium	7440-09-7	3,910		20.1	55.8		1
01667	Sodium	7440-23-5	85.5	J	41.6	112		1
07968	Strontium	7440-24-6	22.3		0.0692	0.558		1
06969	Tin	7440-31-5	2.51	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,060		0.424	1.12		1
10146	Zirconium	7440-67-7	1.80	J	0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0638	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.72		0.0850	0.425		2
06126	Barium	7440-39-3	129		0.115	0.425		2
06127	Beryllium	7440-41-7	0.670		0.0170	0.106		2

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Sample Description: **SL-092-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13104 SDG#: DE131-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.257		0.0425	0.106		2
06131	Chromium	7440-47-3	17.3		0.128	0.425		2
06132	Cobalt	7440-48-4	6.80		0.0213	0.106		2
06133	Copper	7440-50-8	11.3		0.0702	0.425		2
06135	Lead	7439-92-1	12.3		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.632		0.0531	0.106		2
06139	Nickel	7440-02-0	12.9		0.106	0.425		2
06141	Selenium	7782-49-2	0.174	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0490	J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.298		0.0319	0.106		2
06148	Vanadium	7440-62-2	35.4		0.0234	0.106		2
06149	Zinc	7440-66-6	78.2		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.182		0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	9.6		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	490		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-092-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13104 SDG#: DE131-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 13:41	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 14:01	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 08:19	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 17:35	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 03:49	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/27/2011 22:30	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	05/02/2011 10:21	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 18:56	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111150003A	04/26/2011 15:29	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 16:18	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111150003A	04/26/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1

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Sample Description: **SL-092-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13104 SDG#: DE131-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:07	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 15:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 12:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201A	05/03/2011 12:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 16:20	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 22:56	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:05	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-093-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	191	U	191	381		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-093-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.93	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	2.8		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	1.6	J	0.76	1.9		1
10138	Fluorene	86-73-7	1.8	J	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.0	J	0.76	1.9		1
10138	Pyrene	129-00-0	1.2	J	0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-093-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,400	U	1,400	3,400		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.7	U	5.7	19		5
10225	Aroclor 5442	12642-23-8	5.7	U	5.7	19		5
10225	Aroclor 5460	11126-42-4	7.6	J	5.7	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.7		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.7		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.7		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.7		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.7		5
10225	PCB-1254	11097-69-1	13		1.9	9.7		5
10225	PCB-1260	11096-82-5	6.9	J	2.2	9.7		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.7		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.7		5
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-093-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.91	U	0.91	2.7		2
10199	EFH (C15-C20)	n.a.	3.0		0.91	2.7		2
10199	EFH (C21-C30)	n.a.	18		0.91	2.7		2
10199	EFH (C30 - C40)	n.a.	48		0.91	2.7		2
10199	EFH (C8-C11)	n.a.	0.91	U	0.91	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		5.64	22.4		1
07914	Boron	7440-42-8	1.75	J	0.997	5.60		1
01650	Calcium	7440-70-2	3,980		6.87	22.4		1
01654	Iron	7439-89-6	19,700		5.28	22.4		1
01656	Lithium	7439-93-2	24.3		0.25	2.2		1
01657	Magnesium	7439-95-4	4,250		2.85	11.2		1
06958	Manganese	7439-96-5	414		0.0874	0.560		1
10145	Phosphorus	7723-14-0	544		0.627	11.2		1
01662	Potassium	7440-09-7	3,440		20.2	56.0		1
01667	Sodium	7440-23-5	76.2	J	41.8	112		1
07968	Strontium	7440-24-6	22.4		0.0695	0.560		1
06969	Tin	7440-31-5	2.46	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,010		0.426	1.12		1
10146	Zirconium	7440-67-7	1.24	J	0.941	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0947	J	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-093-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	5.75		0.0896	0.448		2
06126	Barium	7440-39-3	146		0.121	0.448		2
06127	Beryllium	7440-41-7	0.720		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.518		0.0448	0.112		2
06131	Chromium	7440-47-3	20.8		0.134	0.448		2
06132	Cobalt	7440-48-4	7.76		0.0224	0.112		2
06133	Copper	7440-50-8	15.4		0.0739	0.448		2
06135	Lead	7439-92-1	22.1		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.915		0.0560	0.112		2
06139	Nickel	7440-02-0	16.3		0.112	0.448		2
06141	Selenium	7782-49-2	0.223	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.123		0.0134	0.112		2
06145	Thallium	7440-28-0	0.334		0.0336	0.112		2
06148	Vanadium	7440-62-2	40.2		0.0246	0.112		2
06149	Zinc	7440-66-6	94.3		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	3.77		0.0153	0.532		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.1		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	478		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.80		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-093-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 13:57	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 14:28	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 08:52	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 18:17	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 03:59	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 00:03	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	05/02/2011 10:46	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 19:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111110008A	04/21/2011 23:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 17:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111110008A	04/21/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1

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Sample Description: **SL-093-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:11	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 06:35	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 12:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201A	05/03/2011 12:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 16:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 23:08	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:06	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-094-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262824
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13106 SDG#: DE131-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-094-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262824
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13106 SDG#: DE131-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.7	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	1.1	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.79	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-094-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262824
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13106 SDG#: DE131-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,700		5.37	21.4		1
07914	Boron	7440-42-8	4.41	J	0.951	5.34		1
01650	Calcium	7440-70-2	5,120		6.55	21.4		1
01654	Iron	7439-89-6	28,100		5.03	21.4		1
01656	Lithium	7439-93-2	24.2		0.23	2.1		1
01657	Magnesium	7439-95-4	5,770		2.71	10.7		1
06958	Manganese	7439-96-5	347		0.0833	0.534		1
10145	Phosphorus	7723-14-0	276		0.598	10.7		1
01662	Potassium	7440-09-7	4,330		19.2	53.4		1
01667	Sodium	7440-23-5	84.0	J	39.8	107		1
07968	Strontium	7440-24-6	32.5		0.0662	0.534		1
06969	Tin	7440-31-5	2.56	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,300		0.406	1.07		1
10146	Zirconium	7440-67-7	3.61	J	0.897	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.144	J	0.0628	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.05		0.0838	0.419		2
06126	Barium	7440-39-3	134		0.283	1.05		5
06127	Beryllium	7440-41-7	1.08		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.355		0.0419	0.105		2
06131	Chromium	7440-47-3	36.4		0.126	0.419		2
06132	Cobalt	7440-48-4	13.3		0.0209	0.105		2
06133	Copper	7440-50-8	19.7		0.0691	0.419		2
06135	Lead	7439-92-1	14.4		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.551		0.0524	0.105		2
06139	Nickel	7440-02-0	25.8		0.105	0.419		2
06141	Selenium	7782-49-2	0.202	J	0.0419	0.419		2
06142	Silver	7440-22-4	0.0569	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.443		0.0314	0.105		2
06148	Vanadium	7440-62-2	68.9		0.0230	0.105		2
06149	Zinc	7440-66-6	87.8		0.587	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0323	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-094-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262824
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13106 SDG#: DE131-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	349	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.79	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 14:54	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 09:24	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 00:22	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:14	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-094-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262824
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13106 SDG#: DE131-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 15:10	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 12:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 17:04	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11126243201A	05/09/2011 23:27	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-095-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262825
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13107 SDG#: DE131-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-095-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262825
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13107 SDG#: DE131-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.87	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	1.1	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	1.5	J	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	J	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.89	J	0.75	1.9		1
10138	Pyrene	129-00-0	0.98	J	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-095-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262825
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13107 SDG#: DE131-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,600		5.69	22.6		1
07914	Boron	7440-42-8	2.84	J	1.01	5.66		1
01650	Calcium	7440-70-2	4,640		6.93	22.6		1
01654	Iron	7439-89-6	24,000		5.33	22.6		1
01656	Lithium	7439-93-2	21.9		0.25	2.3		1
01657	Magnesium	7439-95-4	5,050		2.87	11.3		1
06958	Manganese	7439-96-5	294		0.0882	0.566		1
10145	Phosphorus	7723-14-0	356		0.633	11.3		1
01662	Potassium	7440-09-7	3,510		20.4	56.6		1
01667	Sodium	7440-23-5	77.9	J	42.2	113		1
07968	Strontium	7440-24-6	25.4		0.0701	0.566		1
06969	Tin	7440-31-5	2.53	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,210		0.430	1.13		1
10146	Zirconium	7440-67-7	2.88	J	0.950	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0666	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.49		0.0879	0.439		2
06126	Barium	7440-39-3	163		0.119	0.439		2
06127	Beryllium	7440-41-7	0.921		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.236		0.0439	0.110		2
06131	Chromium	7440-47-3	30.1		0.132	0.439		2
06132	Cobalt	7440-48-4	12.5		0.0220	0.110		2
06133	Copper	7440-50-8	16.9		0.0725	0.439		2
06135	Lead	7439-92-1	12.5		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.545		0.0549	0.110		2
06139	Nickel	7440-02-0	21.2		0.110	0.439		2
06141	Selenium	7782-49-2	0.153	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0523	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.396		0.0329	0.110		2
06148	Vanadium	7440-62-2	59.0		0.0242	0.110		2
06149	Zinc	7440-66-6	84.3		0.615	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0151	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-095-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262825
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13107 SDG#: DE131-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	368	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.07	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 15:21	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 09:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 00:40	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:18	John P Hook	1

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Analysis Report

Sample Description: SL-095-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262825
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13107 SDG#: DE131-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 13:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 17:26	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 23:33	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-096-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262826
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13108 SDG#: DE131-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-096-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262826
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13108 SDG#: DE131-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.49	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.86	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	1.3	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.0	J	0.72	1.8		1
10138	Pyrene	129-00-0	0.89	J	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.65	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262826
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13108 SDG#: DE131-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,800		5.30	21.1		1
07914	Boron	7440-42-8	4.14	J	0.937	5.27		1
01650	Calcium	7440-70-2	4,700		6.46	21.1		1
01654	Iron	7439-89-6	25,400		4.96	21.1		1
01656	Lithium	7439-93-2	21.8		0.23	2.1		1
01657	Magnesium	7439-95-4	5,320		2.67	10.5		1
06958	Manganese	7439-96-5	325		0.0821	0.527		1
10145	Phosphorus	7723-14-0	265		0.590	10.5		1
01662	Potassium	7440-09-7	3,990		19.0	52.7		1
01667	Sodium	7440-23-5	85.0	J	39.3	105		1
07968	Strontium	7440-24-6	28.1		0.0653	0.527		1
06969	Tin	7440-31-5	2.51	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,150		0.400	1.05		1
10146	Zirconium	7440-67-7	3.50	J	0.885	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.119	J	0.0632	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.71		0.0842	0.421		2
06126	Barium	7440-39-3	141		0.114	0.421		2
06127	Beryllium	7440-41-7	0.890		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.329		0.0421	0.105		2
06131	Chromium	7440-47-3	29.4		0.126	0.421		2
06132	Cobalt	7440-48-4	10.2		0.0211	0.105		2
06133	Copper	7440-50-8	15.6		0.0695	0.421		2
06135	Lead	7439-92-1	11.6		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.398		0.0527	0.105		2
06139	Nickel	7440-02-0	19.9		0.105	0.421		2
06141	Selenium	7782-49-2	0.150	J	0.0421	0.421		2
06142	Silver	7440-22-4	0.0370	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.385		0.0316	0.105		2
06148	Vanadium	7440-62-2	57.1		0.0232	0.105		2
06149	Zinc	7440-66-6	66.6		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0149	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-096-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262826
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13108 SDG#: DE131-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	391	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.88	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 15:47	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 10:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 00:59	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:24	John P Hook	1

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Analysis Report

Sample Description: SL-096-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262826
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13108 SDG#: DE131-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 13:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 17:48	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 23:45	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-097-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262827
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13109 SDG#: DE131-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-097-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262827
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13109 SDG#: DE131-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.88	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.7		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.95	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	2.3		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	3.3		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.1		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.92	J	0.77	1.9		1
10138	Naphthalene	91-20-3	1.6	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	2.7		0.77	1.9		1
10138	Pyrene	129-00-0	2.1		0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-097-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262827
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13109 SDG#: DE131-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,600		5.74	22.8		1
07914	Boron	7440-42-8	4.55	J	1.02	5.71		1
01650	Calcium	7440-70-2	5,560		7.00	22.8		1
01654	Iron	7439-89-6	29,100		5.38	22.8		1
01656	Lithium	7439-93-2	23.7		0.25	2.3		1
01657	Magnesium	7439-95-4	6,160		2.90	11.4		1
06958	Manganese	7439-96-5	410		0.0891	0.571		1
10145	Phosphorus	7723-14-0	302		0.640	11.4		1
01662	Potassium	7440-09-7	4,630		20.6	57.1		1
01667	Sodium	7440-23-5	94.9	J	42.6	114		1
07968	Strontium	7440-24-6	35.4		0.0708	0.571		1
06969	Tin	7440-31-5	2.55	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,200		0.434	1.14		1
10146	Zirconium	7440-67-7	3.77	J	0.959	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0665	U	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.61		0.0887	0.444		2
06126	Barium	7440-39-3	166		0.120	0.444		2
06127	Beryllium	7440-41-7	0.987		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.308		0.0444	0.111		2
06131	Chromium	7440-47-3	33.8		0.133	0.444		2
06132	Cobalt	7440-48-4	11.8		0.0222	0.111		2
06133	Copper	7440-50-8	19.5		0.0732	0.444		2
06135	Lead	7439-92-1	13.2		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.547		0.0555	0.111		2
06139	Nickel	7440-02-0	23.4		0.111	0.444		2
06141	Selenium	7782-49-2	0.177	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0580	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.406		0.0333	0.111		2
06148	Vanadium	7440-62-2	64.9		0.0244	0.111		2
06149	Zinc	7440-66-6	85.7		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0149	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-097-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262827
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13109 SDG#: DE131-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	386	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.89	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 16:14	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 11:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 01:18	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:28	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-097-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262827
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13109 SDG#: DE131-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 15:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 14:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11123495201A	05/09/2011 19:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 23:58	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262828
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13110 SDG#: DE131-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	174	U	174	348		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: SL-122-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262828
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13110 SDG#: DE131-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.85	J	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	1.4	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	1.6	J	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.86	J	0.70	1.7		1
10138	Pyrene	129-00-0	1.2	J	0.70	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1

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Sample Description: SL-122-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262828
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13110 SDG#: DE131-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,200	U	1,200	3,100		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.3	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.70	J	0.34	1.8		1
10225	PCB-1260	11096-82-5	1.0	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: SL-122-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262828
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13110 SDG#: DE131-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.2		1
10199	EFH (C15-C20)	n.a.	0.97	J	0.42	1.2		1
10199	EFH (C21-C30)	n.a.	7.4		0.42	1.2		1
10199	EFH (C30 - C40)	n.a.	23		0.42	1.2		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.2		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	13		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	13		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	13		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.15	20.5		1
07914	Boron	7440-42-8	1.82	J	0.912	5.12		1
01650	Calcium	7440-70-2	3,860		6.28	20.5		1
01654	Iron	7439-89-6	20,000		4.83	20.5		1
01656	Lithium	7439-93-2	27.7		0.23	2.0		1
01657	Magnesium	7439-95-4	4,790		2.60	10.2		1
06958	Manganese	7439-96-5	353		0.0799	0.512		1
10145	Phosphorus	7723-14-0	621		0.574	10.2		1
01662	Potassium	7440-09-7	3,960		18.4	51.2		1
01667	Sodium	7440-23-5	65.8	J	38.2	102		1
07968	Strontium	7440-24-6	18.4		0.0635	0.512		1
06969	Tin	7440-31-5	2.58	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,180		0.389	1.02		1
10146	Zirconium	7440-67-7	2.53	J	0.861	5.12		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0862	J	0.0615	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Sample Description: SL-122-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262828
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13110 SDG#: DE131-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	4.72		0.0820	0.410		2
06126	Barium	7440-39-3	113		0.111	0.410		2
06127	Beryllium	7440-41-7	0.544		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.310		0.0410	0.102		2
06131	Chromium	7440-47-3	16.5		0.123	0.410		2
06132	Cobalt	7440-48-4	6.73		0.0205	0.102		2
06133	Copper	7440-50-8	11.0		0.0676	0.410		2
06135	Lead	7439-92-1	13.1		0.0107	0.205		2
06138	Molybdenum	7439-98-7	0.364		0.0512	0.102		2
06139	Nickel	7440-02-0	12.7		0.102	0.410		2
06141	Selenium	7782-49-2	0.147	J	0.0410	0.410		2
06142	Silver	7440-22-4	0.0520	J	0.0123	0.102		2
06145	Thallium	7440-28-0	0.255		0.0307	0.102		2
06148	Vanadium	7440-62-2	32.8		0.0225	0.102		2
06149	Zinc	7440-66-6	82.7		0.574	3.07		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0209	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	411		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-122-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262828
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

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Reported: 05/20/2011 10:48

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13110 SDG#: DE131-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 14:14	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 16:40	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 12:06	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 19:00	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 04:08	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 01:36	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 12:32	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 19:26	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111110008A	04/22/2011 00:00	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 18:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111110008A	04/21/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262828
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13110 SDG#: DE131-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:32	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 15:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 14:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201A	05/03/2011 14:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 18:32	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/10/2011 02:52	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:07	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13111 SDG#: DE131-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	27.3	J	18.2	36.5		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1

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Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13111 SDG#: DE131-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1

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Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13111 SDG#: DE131-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	2.3		0.36	1.8		1
10225	PCB-1260	11096-82-5	1.2	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

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Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13111 SDG#: DE131-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	1.6		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	4.9		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		5.34	21.2		1
07914	Boron	7440-42-8	1.54	J	0.945	5.31		1
01650	Calcium	7440-70-2	2,350		6.51	21.2		1
01654	Iron	7439-89-6	16,300		5.00	21.2		1
01656	Lithium	7439-93-2	16.8		0.23	2.1		1
01657	Magnesium	7439-95-4	3,470		2.70	10.6		1
06958	Manganese	7439-96-5	236		0.0829	0.531		1
10145	Phosphorus	7723-14-0	304		0.595	10.6		1
01662	Potassium	7440-09-7	2,810		19.1	53.1		1
01667	Sodium	7440-23-5	65.0	J	39.6	106		1
07968	Strontium	7440-24-6	18.7		0.0659	0.531		1
06969	Tin	7440-31-5	2.31	J	1.06	10.6		1
06970	Titanium	7440-32-6	956		0.404	1.06		1
10146	Zirconium	7440-67-7	1.61	J	0.892	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0727	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13111 SDG#: DE131-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	4.40		0.0867	0.433		2
06126	Barium	7440-39-3	94.4		0.117	0.433		2
06127	Beryllium	7440-41-7	0.615		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.128		0.0433	0.108		2
06131	Chromium	7440-47-3	17.8		0.130	0.433		2
06132	Cobalt	7440-48-4	6.21		0.0217	0.108		2
06133	Copper	7440-50-8	8.84		0.0715	0.433		2
06135	Lead	7439-92-1	8.62		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.476		0.0542	0.108		2
06139	Nickel	7440-02-0	11.4		0.108	0.433		2
06141	Selenium	7782-49-2	0.184	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0146	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.259		0.0325	0.108		2
06148	Vanadium	7440-62-2	35.6		0.0238	0.108		2
06149	Zinc	7440-66-6	57.6		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0158	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	420		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.02		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13111 SDG#: DE131-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 14:30	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 17:07	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 12:38	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 19:42	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 04:18	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 01:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 12:07	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 19:41	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111110008A	04/22/2011 00:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 19:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111110008A	04/21/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1

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Sample Description: **SL-135-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Chantilly VA 20151

13111 SDG#: DE131-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:35	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 15:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 15:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 20:23	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11126243201A	05/10/2011 00:10	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:08	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	45.2		18.2	36.3		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at a concentration of 125 ng/kg. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.77	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.8	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.86	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	1.5	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	1.7	J	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.96	J	0.73	1.8		1
10138	Pyrene	129-00-0	1.1	J	0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

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Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,300	U	1,300	3,300		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.2	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.86	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	1.2	J	0.42	1.8		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262		37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268		11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)		n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)		n.a.	0.85	J	0.43	1.3		1
10199	EFH (C21-C30)		n.a.	5.8		0.43	1.3		1
10199	EFH (C30 - C40)		n.a.	22		0.43	1.3		1
10199	EFH (C8-C11)		n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous		**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol		64-17-5	110	U	110	540		1
10501	Isopropanol		67-63-0	110	U	110	540		1
10501	Methanol		67-56-1	110	U	110	540		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol		111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol		107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol		57-55-6	5.4	U	5.4	14		1
Terphenyls		**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl		92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl		84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl		92-94-4	1.6	U	1.6	3.8		1
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum		7429-90-5	12,500		5.43	21.6		1
07914	Boron		7440-42-8	1.44	J	0.960	5.39		1
01650	Calcium		7440-70-2	2,180		6.61	21.6		1
01654	Iron		7439-89-6	18,600		5.08	21.6		1
01656	Lithium		7439-93-2	25.5		0.24	2.2		1
01657	Magnesium		7439-95-4	4,060		2.74	10.8		1
06958	Manganese		7439-96-5	309		0.0841	0.539		1
10145	Phosphorus		7723-14-0	431		0.604	10.8		1
01662	Potassium		7440-09-7	3,530		19.4	53.9		1
01667	Sodium		7440-23-5	69.8	J	40.2	108		1
07968	Strontium		7440-24-6	14.7		0.0669	0.539		1
06969	Tin		7440-31-5	2.38	J	1.08	10.8		1
06970	Titanium		7440-32-6	1,080		0.410	1.08		1
10146	Zirconium		7440-67-7	1.84	J	0.906	5.39		1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.0654	U	0.0654	0.218		2

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Sample Description: **SL-138-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.92		0.0871	0.436		2
06126	Barium	7440-39-3	116		0.118	0.436		2
06127	Beryllium	7440-41-7	0.629		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.150		0.0436	0.109		2
06131	Chromium	7440-47-3	18.2		0.131	0.436		2
06132	Cobalt	7440-48-4	6.90		0.0218	0.109		2
06133	Copper	7440-50-8	10.1		0.0719	0.436		2
06135	Lead	7439-92-1	12.9		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.502		0.0545	0.109		2
06139	Nickel	7440-02-0	13.2		0.109	0.436		2
06141	Selenium	7782-49-2	0.122	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0257	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.300		0.0327	0.109		2
06148	Vanadium	7440-62-2	37.0		0.0240	0.109		2
06149	Zinc	7440-66-6	79.3		0.610	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0181	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	449		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.2		0.50	0.50		1

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Sample Description: **SL-138-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 14:46	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 17:33	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	04/30/2011 00:42	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 20:25	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 04:37	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 02:13	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 13:22	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 19:56	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 19:15	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 20:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1

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Sample Description: **SL-138-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 19:07	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 15:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 14:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 14:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 18:54	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/10/2011 00:23	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 08:31	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1

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Sample Description: **SL-138-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	545		18.2	36.3		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at a concentration of 565 ng/kg. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180		1
04688	Acenaphthylene	208-96-8	1,700		18	180		1
04688	Aniline	62-53-3	1,200		180	540		1
04688	Anthracene	120-12-7	1,700		18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,900		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		18	180		1
04688	Benzoic acid	65-85-0	2,200		180	540		1
04688	Benzyl alcohol	100-51-6	1,700		180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,200		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,700		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	2,100		36	180		1
04688	4-Chloroaniline	106-47-8	1,200		72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,200		18	180		1
04688	2-Chlorophenol	95-57-8	1,700		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		36	180		1
04688	Chrysene	218-01-9	1,900		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180		1
04688	Dibenzofuran	132-64-9	1,700		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500		110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,900		18	180		1
04688	Diethylphthalate	84-66-2	1,800		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,800		36	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000		36	180		1
04688	Dimethylphthalate	131-11-3	1,800		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	950		180	540		1
04688	2,4-Dinitrophenol	51-28-5	1,500		360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-138-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,200	18	360		1
04688	Fluoranthene	206-44-0	1,600	18	180		1
04688	Fluorene	86-73-7	1,800	18	180		1
04688	Hexachlorobenzene	118-74-1	1,700	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,600	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	1,500	180	540		1
04688	Hexachloroethane	67-72-1	1,500	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	18	180		1
04688	Isophorone	78-59-1	1,800	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,800	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700	18	180		1
04688	2-Methylphenol	95-48-7	1,800	36	180		1
04688	4-Methylphenol	106-44-5	1,800	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	18	180		1
04688	2-Nitroaniline	88-74-4	2,000	18	180		1
04688	3-Nitroaniline	99-09-2	1,900	36	180		1
04688	4-Nitroaniline	100-01-6	1,600	72	180		1
04688	Nitrobenzene	98-95-3	1,700	18	180		1
04688	2-Nitrophenol	88-75-5	1,700	18	180		1
04688	4-Nitrophenol	100-02-7	1,700	180	540		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	18	180		1
04688	Pentachlorophenol	87-86-5	660	180	540		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,800	18	180		1
04688	Pyrene	129-00-0	1,900	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	36	0.73	1.8		1
10138	Acenaphthylene	208-96-8	34	0.36	1.8		1
10138	Anthracene	120-12-7	36	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	37	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	42	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	50	0.73	1.8		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(g,h,i)perylene	191-24-2	22		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	42		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	42		6.5	20		1
10138	Di-n-butylphthalate	84-74-2	38		6.5	20		1
10138	Chrysene	218-01-9	37		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	28		0.73	1.8		1
10138	Diethylphthalate	84-66-2	30		6.5	20		1
10138	Dimethylphthalate	131-11-3	36		6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45		6.5	20		1
10138	Fluoranthene	206-44-0	40		0.73	1.8		1
10138	Fluorene	86-73-7	37		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	28		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	35		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	32		0.73	1.8		1
10138	Naphthalene	91-20-3	34		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	35		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	58		6.5	20		1
10138	Phenanthrene	85-01-8	36		0.73	1.8		1
10138	Pyrene	129-00-0	35		0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,100		63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,100		42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,100		42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,100		42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,200		42	130	10000000	1
10132	HMX	2691-41-0	1,900		100	310	10000000	1
10132	Nitrobenzene	98-95-3	2,000		42	130	10000000	1
10132	Nitroglycerin	55-63-0	47,000		840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	2,100		84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,200		100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,100		84	130	10000000	1
10132	PETN	78-11-5	57,000		840	2,500	10000000	1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	1,900		52	130	10000000	1
10132	Tetryl	479-45-8	1,900		64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,100		42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,100		42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	11,000		1,300	3,300		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	17		0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	9.3		0.36	1.8		1
10225	PCB-1260	11096-82-5	21		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.99	J	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	2.5		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	9.7		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	27		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.72	J	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		110	540		1
10501	Isopropanol	67-63-0	2,200		110	540		1
10501	Methanol	67-56-1	2,200		110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	200		5.4	14		1
08283	Ethylene glycol	107-21-1	180		5.4	14		1
08283	Propylene glycol	57-55-6	200		5.4	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5		1.4	1.4		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	J	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.7	J	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.37	21.4		1
07914	Boron	7440-42-8	212		0.950	5.34		1
01650	Calcium	7440-70-2	2,810		6.55	21.4		1
01654	Iron	7439-89-6	19,400		5.03	21.4		1
01656	Lithium	7439-93-2	131		0.23	2.1		1
01657	Magnesium	7439-95-4	4,370		2.71	10.7		1
06958	Manganese	7439-96-5	364		0.0833	0.534		1
10145	Phosphorus	7723-14-0	523		0.598	10.7		1
01662	Potassium	7440-09-7	4,760		19.2	53.4		1
01667	Sodium	7440-23-5	1,140		39.8	107		1
07968	Strontium	7440-24-6	124		0.0662	0.534		1
06969	Tin	7440-31-5	372		1.07	10.7		1
06970	Titanium	7440-32-6	1,290		0.406	1.07		1
10146	Zirconium	7440-67-7	98.5		0.897	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.451		0.0635	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.13		0.0846	0.423		2
06126	Barium	7440-39-3	124		0.114	0.423		2
06127	Beryllium	7440-41-7	1.58		0.0169	0.106		2
06128	Cadmium	7440-43-9	1.37		0.0423	0.106		2
06131	Chromium	7440-47-3	29.6		0.127	0.423		2
06132	Cobalt	7440-48-4	71.9		0.0212	0.106		2
06133	Copper	7440-50-8	22.5		0.0698	0.423		2
06135	Lead	7439-92-1	15.8		0.0110	0.212		2
06138	Molybdenum	7439-98-7	12.5		0.0529	0.106		2
06139	Nickel	7440-02-0	25.4		0.106	0.423		2
06141	Selenium	7782-49-2	2.51		0.0423	0.423		2
06142	Silver	7440-22-4	13.1		0.0127	0.106		2
06145	Thallium	7440-28-0	0.771		0.0317	0.106		2
06148	Vanadium	7440-62-2	46.8		0.0233	0.106		2
06149	Zinc	7440-66-6	86.8		0.592	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.181		0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.4		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	13.8		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-138-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	509	9.8	32.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	41.3	1.1	5.4		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	6.2	0.20	0.54		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 15:03	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 18:00	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	04/30/2011 01:15	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 21:07	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 04:47	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 02:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 13:47	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 20:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 20:43	Dustin A Underkoffler	1

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Sample Description: **SL-138-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 20:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 17:39	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 15:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 15:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 19:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11126243201A	05/10/2011 00:42	Venia B McFadden	5

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-138-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:10	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	556		18.2	36.3		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at a concentration of 625 ng/kg. The data reported here is from the initial extraction of the sample.								
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180		1
04688	Acenaphthylene	208-96-8	1,800		18	180		1
04688	Aniline	62-53-3	1,200		180	540		1
04688	Anthracene	120-12-7	1,800		18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,900		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		18	180		1
04688	Benzoic acid	65-85-0	2,000		180	540		1
04688	Benzyl alcohol	100-51-6	1,800		180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,200		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,800		18	180		1
04688	Carbazole	86-74-8	1,800		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	2,000		36	180		1
04688	4-Chloroaniline	106-47-8	1,100		72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,600		18	180		1
04688	2-Chlorophenol	95-57-8	1,900		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		36	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		18	180		1
04688	Dibenzofuran	132-64-9	1,800		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,900		18	180		1
04688	Diethylphthalate	84-66-2	1,900		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,800		36	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000		36	180		1
04688	Dimethylphthalate	131-11-3	1,800		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	900		180	540		1
04688	2,4-Dinitrophenol	51-28-5	1,400		360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	2,000		36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100	18	360		1
04688	Fluoranthene	206-44-0	1,700	18	180		1
04688	Fluorene	86-73-7	1,900	18	180		1
04688	Hexachlorobenzene	118-74-1	1,800	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,500	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	1,400	180	540		1
04688	Hexachloroethane	67-72-1	1,400	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	18	180		1
04688	Isophorone	78-59-1	1,700	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,800	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700	18	180		1
04688	2-Methylphenol	95-48-7	1,900	36	180		1
04688	4-Methylphenol	106-44-5	1,900	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	18	180		1
04688	2-Nitroaniline	88-74-4	2,100	18	180		1
04688	3-Nitroaniline	99-09-2	2,000	36	180		1
04688	4-Nitroaniline	100-01-6	1,600	72	180		1
04688	Nitrobenzene	98-95-3	1,700	18	180		1
04688	2-Nitrophenol	88-75-5	1,800	18	180		1
04688	4-Nitrophenol	100-02-7	1,800	180	540		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,100	18	180		1
04688	Pentachlorophenol	87-86-5	970	180	540		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,800	18	180		1
04688	Pyrene	129-00-0	1,800	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.73	1.8		1
10138	Acenaphthylene	208-96-8	35	0.36	1.8		1
10138	Anthracene	120-12-7	35	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	36	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	41	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	48	0.73	1.8		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(g,h,i)perylene	191-24-2	21		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	42		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	40		6.5	20		1
10138	Di-n-butylphthalate	84-74-2	37		6.5	20		1
10138	Chrysene	218-01-9	36		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	28		0.73	1.8		1
10138	Diethylphthalate	84-66-2	30		6.5	20		1
10138	Dimethylphthalate	131-11-3	36		6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	42		6.5	20		1
10138	Fluoranthene	206-44-0	38		0.73	1.8		1
10138	Fluorene	86-73-7	36		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	26		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	35		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	31		0.73	1.8		1
10138	Naphthalene	91-20-3	33		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	35		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	55		6.5	20		1
10138	Phenanthrene	85-01-8	35		0.73	1.8		1
10138	Pyrene	129-00-0	33		0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300		63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,300		42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,200		42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,300		42	130	10000000	1
10132	HMX	2691-41-0	2,100		100	310	10000000	1
10132	Nitrobenzene	98-95-3	2,300		42	130	10000000	1
10132	Nitroglycerin	55-63-0	50,000		840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	2,200		84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,300		100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,200		84	130	10000000	1
10132	PETN	78-11-5	61,000		840	2,500	10000000	1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

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Chantilly VA 20151

13112 SDG#: DE131-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	2,000		52	130	10000000	1
10132	Tetryl	479-45-8	1,900		64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,200		42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	11,000		1,300	3,300		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	18		0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	11		0.36	1.8		1
10225	PCB-1260	11096-82-5	24		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.99	J	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	2.7		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	10		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	29		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.69	J	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,100		110	540		1
10501	Isopropanol	67-63-0	2,200		110	540		1
10501	Methanol	67-56-1	2,200		110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	210		5.4	14		1
08283	Ethylene glycol	107-21-1	180		5.4	14		1
08283	Propylene glycol	57-55-6	190		5.4	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
sample matrix and the data is reported.								
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5		1.5	1.5		1
10318	o-Terphenyl	84-15-1	1.8	J	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.7	J	1.5	7.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.32	21.2		1
07914	Boron	7440-42-8	210		0.941	5.29		1
01650	Calcium	7440-70-2	2,860		6.48	21.2		1
01654	Iron	7439-89-6	19,700		4.98	21.2		1
01656	Lithium	7439-93-2	131		0.23	2.1		1
01657	Magnesium	7439-95-4	4,430		2.69	10.6		1
06958	Manganese	7439-96-5	367		0.0825	0.529		1
10145	Phosphorus	7723-14-0	521		0.592	10.6		1
01662	Potassium	7440-09-7	4,810		19.0	52.9		1
01667	Sodium	7440-23-5	1,140		39.4	106		1
07968	Strontium	7440-24-6	122		0.0656	0.529		1
06969	Tin	7440-31-5	370		1.06	10.6		1
06970	Titanium	7440-32-6	1,330		0.402	1.06		1
10146	Zirconium	7440-67-7	98.4		0.888	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.569		0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.37		0.0863	0.431		2
06126	Barium	7440-39-3	171		0.116	0.431		2
06127	Beryllium	7440-41-7	1.65		0.0173	0.108		2
06128	Cadmium	7440-43-9	1.53		0.0431	0.108		2
06131	Chromium	7440-47-3	29.5		0.129	0.431		2
06132	Cobalt	7440-48-4	75.4		0.0216	0.108		2
06133	Copper	7440-50-8	23.8		0.0712	0.431		2
06135	Lead	7439-92-1	16.2		0.0112	0.216		2
06138	Molybdenum	7439-98-7	13.2		0.0539	0.108		2
06139	Nickel	7440-02-0	26.9		0.108	0.431		2
06141	Selenium	7782-49-2	2.58		0.0431	0.431		2
06142	Silver	7440-22-4	13.5		0.0129	0.108		2
06145	Thallium	7440-28-0	0.783		0.0324	0.108		2
06148	Vanadium	7440-62-2	48.0		0.0237	0.108		2
06149	Zinc	7440-66-6	89.3		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.175		0.0029	0.103		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	8.2		0.50	0.50		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-138-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 15:19	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 18:27	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	04/30/2011 01:47	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 23:14	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 04:56	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 02:51	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 14:12	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 20:26	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 21:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 21:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-138-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 17:43	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262833
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		5.32	21.2		1
07914	Boron	7440-42-8	0.941	U	0.941	5.29		1
01650	Calcium	7440-70-2	2,130		6.48	21.2		1
01654	Iron	7439-89-6	19,000		4.98	21.2		1
01656	Lithium	7439-93-2	25.6		0.23	2.1		1
01657	Magnesium	7439-95-4	4,050		2.69	10.6		1
06958	Manganese	7439-96-5	312		0.0825	0.529		1
10145	Phosphorus	7723-14-0	423		0.592	10.6		1
01662	Potassium	7440-09-7	3,500		19.0	52.9		1
01667	Sodium	7440-23-5	67.4	J	39.4	106		1
07968	Strontium	7440-24-6	14.3		0.0656	0.529		1
06969	Tin	7440-31-5	2.53	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,050		0.402	1.06		1
10146	Zirconium	7440-67-7	2.41	J	0.888	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0727	J	0.0641	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.08		0.0854	0.427		2
06126	Barium	7440-39-3	100		0.115	0.427		2
06127	Beryllium	7440-41-7	0.541		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.191		0.0427	0.107		2
06131	Chromium	7440-47-3	16.2		0.128	0.427		2
06132	Cobalt	7440-48-4	5.84		0.0214	0.107		2
06133	Copper	7440-50-8	8.92		0.0705	0.427		2
06135	Lead	7439-92-1	11.6		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.513		0.0534	0.107		2
06139	Nickel	7440-02-0	11.4		0.107	0.427		2
06141	Selenium	7782-49-2	0.126	J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0348	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.310		0.0320	0.107		2
06148	Vanadium	7440-62-2	33.0		0.0235	0.107		2
06149	Zinc	7440-66-6	68.7		0.598	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0192	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.3		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262833
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	451		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	8.3		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	8.2		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 17:35	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:16	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA8N-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262833
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 14:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 14:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 19:16	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/10/2011 01:25	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:11	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	61.6		17.5	34.9		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.96	J	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.84	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	1.0	J	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.88	J	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1

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Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,300	U	1,300	3,100		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.75	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.68	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

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Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.83	U	0.83	2.5		2
10199	EFH (C15-C20)	n.a.	3.6		0.83	2.5		2
10199	EFH (C21-C30)	n.a.	17		0.83	2.5		2
10199	EFH (C30 - C40)	n.a.	49		0.83	2.5		2
10199	EFH (C8-C11)	n.a.	0.83	U	0.83	2.5		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	13		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	13		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.17	20.6		1
07914	Boron	7440-42-8	0.915	U	0.915	5.14		1
01650	Calcium	7440-70-2	2,380		6.30	20.6		1
01654	Iron	7439-89-6	18,900		4.84	20.6		1
01656	Lithium	7439-93-2	25.5		0.23	2.1		1
01657	Magnesium	7439-95-4	4,150		2.61	10.3		1
06958	Manganese	7439-96-5	295		0.0802	0.514		1
10145	Phosphorus	7723-14-0	464		0.575	10.3		1
01662	Potassium	7440-09-7	3,480		18.5	51.4		1
01667	Sodium	7440-23-5	70.2	J	38.3	103		1
07968	Strontium	7440-24-6	15.0		0.0637	0.514		1
06969	Tin	7440-31-5	2.39	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,080		0.391	1.03		1
10146	Zirconium	7440-67-7	1.50	J	0.863	5.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0617	U	0.0617	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.93		0.0822	0.411		2
06126	Barium	7440-39-3	109		0.111	0.411		2
06127	Beryllium	7440-41-7	0.571		0.0164	0.103		2

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Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.239		0.0411	0.103		2
06131	Chromium	7440-47-3	16.6		0.123	0.411		2
06132	Cobalt	7440-48-4	6.51		0.0206	0.103		2
06133	Copper	7440-50-8	9.55		0.0678	0.411		2
06135	Lead	7439-92-1	10.9		0.0107	0.206		2
06138	Molybdenum	7439-98-7	0.548		0.0514	0.103		2
06139	Nickel	7440-02-0	12.1		0.103	0.411		2
06141	Selenium	7782-49-2	0.106	J	0.0411	0.411		2
06142	Silver	7440-22-4	0.0434	J	0.0123	0.103		2
06145	Thallium	7440-28-0	0.281		0.0308	0.103		2
06148	Vanadium	7440-62-2	33.9		0.0226	0.103		2
06149	Zinc	7440-66-6	72.2		0.575	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0089	J	0.0028	0.0973		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	456		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-139-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 15:53	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 18:53	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 13:10	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 23:57	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 05:06	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 03:09	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	05/02/2011 11:11	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150026A	04/25/2011 21:40	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 19:32	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 22:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150026A	04/25/2011 17:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1

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Sample Description: **SL-139-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:45	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 15:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 15:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 20:45	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/10/2011 01:38	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:12	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13114 SDG#: DE131-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.1	U	19.1	38.1		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13114 SDG#: DE131-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	1.9		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	1.9	J	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.1	J	0.76	1.9		1
10138	Pyrene	129-00-0	1.5	J	0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13114 SDG#: DE131-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,400	U	1,400	3,400		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	2.5	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	1.5	J	0.38	1.9		1
10225	PCB-1260	11096-82-5	1.7	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13114 SDG#: DE131-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.92	U	0.92	2.7		2
10199	EFH (C15-C20)	n.a.	2.6	J	0.92	2.7		2
10199	EFH (C21-C30)	n.a.	14		0.92	2.7		2
10199	EFH (C30 - C40)	n.a.	48		0.92	2.7		2
10199	EFH (C8-C11)	n.a.	0.92	U	0.92	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.59	22.2		1
07914	Boron	7440-42-8	1.12	J	0.989	5.55		1
01650	Calcium	7440-70-2	3,990		6.81	22.2		1
01654	Iron	7439-89-6	19,400		5.23	22.2		1
01656	Lithium	7439-93-2	22.5		0.24	2.2		1
01657	Magnesium	7439-95-4	4,300		2.82	11.1		1
06958	Manganese	7439-96-5	362		0.0866	0.555		1
10145	Phosphorus	7723-14-0	494		0.622	11.1		1
01662	Potassium	7440-09-7	3,690		20.0	55.5		1
01667	Sodium	7440-23-5	77.7	J	41.4	111		1
07968	Strontium	7440-24-6	23.0		0.0689	0.555		1
06969	Tin	7440-31-5	2.54	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,030		0.422	1.11		1
10146	Zirconium	7440-67-7	2.13	J	0.933	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.279		0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.08		0.0889	0.444		2
06126	Barium	7440-39-3	133		0.120	0.444		2
06127	Beryllium	7440-41-7	0.633		0.0178	0.111		2

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Analysis Report

Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13114 SDG#: DE131-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.283		0.0444	0.111		2
06131	Chromium	7440-47-3	19.9		0.133	0.444		2
06132	Cobalt	7440-48-4	7.32		0.0222	0.111		2
06133	Copper	7440-50-8	14.0		0.0733	0.444		2
06135	Lead	7439-92-1	18.0		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.600		0.0555	0.111		2
06139	Nickel	7440-02-0	15.1		0.111	0.444		2
06141	Selenium	7782-49-2	0.204	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0531	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.314		0.0333	0.111		2
06148	Vanadium	7440-62-2	38.2		0.0244	0.111		2
06149	Zinc	7440-66-6	79.7		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0268	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.92	U	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.7		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	461		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.68		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13114 SDG#: DE131-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 16:09	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 19:20	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 13:42	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	05/01/2011 00:39	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 05:15	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 03:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	05/02/2011 11:36	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150026A	04/25/2011 21:55	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 19:50	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 23:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150026A	04/25/2011 17:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1

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Analysis Report

Sample Description: **SL-140-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13114 SDG#: DE131-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:49	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 15:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 15:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 21:07	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11126243201A	05/10/2011 01:56	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:15	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP04-SA8N-QC-041911 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	43.8		18.3	36.5		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at a concentration of 48.4 ng/kg. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1

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Sample Description: DUP04-SA8N-QC-041911 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.42	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1

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Sample Description: DUP04-SA8N-QC-041911 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,300	U	1,300	3,200		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.89	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.93	J	0.43	1.9		1

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Sample Description: **DUP04-SA8N-QC-041911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.97	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	8.6		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	35		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		5.45	21.7		1
07914	Boron	7440-42-8	0.965	U	0.965	5.42		1
01650	Calcium	7440-70-2	2,280		6.65	21.7		1
01654	Iron	7439-89-6	19,400		5.11	21.7		1
01656	Lithium	7439-93-2	25.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,100		2.75	10.8		1
06958	Manganese	7439-96-5	306		0.0846	0.542		1
10145	Phosphorus	7723-14-0	439		0.607	10.8		1
01662	Potassium	7440-09-7	3,580		19.5	54.2		1
01667	Sodium	7440-23-5	67.8	J	40.4	108		1
07968	Strontium	7440-24-6	15.5		0.0672	0.542		1
06969	Tin	7440-31-5	2.28	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,050		0.412	1.08		1
10146	Zirconium	7440-67-7	1.51	J	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0644	0.215		2

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Sample Description: **DUP04-SA8N-QC-041911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.46		0.0859	0.430		2
06126	Barium	7440-39-3	123		0.116	0.430		2
06127	Beryllium	7440-41-7	0.630		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.224		0.0430	0.107		2
06131	Chromium	7440-47-3	19.1		0.129	0.430		2
06132	Cobalt	7440-48-4	7.53		0.0215	0.107		2
06133	Copper	7440-50-8	11.7		0.0709	0.430		2
06135	Lead	7439-92-1	13.8		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.591		0.0537	0.107		2
06139	Nickel	7440-02-0	14.1		0.107	0.430		2
06141	Selenium	7782-49-2	0.156	J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0477	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.298		0.0322	0.107		2
06148	Vanadium	7440-62-2	38.9		0.0236	0.107		2
06149	Zinc	7440-66-6	85.5		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0168	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	U	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.7		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	464		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.03		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.7		0.50	0.50		1

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Sample Description: **DUP04-SA8N-QC-041911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 16:26	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/28/2011 12:25	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 14:14	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	05/01/2011 01:22	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 05:25	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 03:46	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 15:27	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150026A	04/25/2011 22:10	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 20:07	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 23:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150026A	04/25/2011 17:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP04-SA8N-QC-041911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:52	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 16:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 16:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 21:29	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/10/2011 02:02	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201B	04/29/2011 09:17	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201B	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **DUP04-SA8N-QC-041911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.8		0.81
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.81
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.81
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.81
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.81
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.81
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.81
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.81
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.81
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.81
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.81
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.81
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.81
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.81
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.81
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.81
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.81
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.81
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.81
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.81
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.81
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.81
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.81
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.81
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.81
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.81
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.81
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.81
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.81
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.81
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.81
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.81
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.81
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.81
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.81
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.81
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.81
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.81
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.81
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.81
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.81
06192	Methylene Chloride	75-09-2	0.65	J	0.24	3.9		0.81
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.81

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Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.81
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.81
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.81
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.81
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.81
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.81
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.81
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.81
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.81
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.81
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		19.9
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1

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Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,700		5.95	23.7		1
07914	Boron	7440-42-8	1.05	U	1.05	5.91		1
01650	Calcium	7440-70-2	2,310		7.25	23.7		1
01654	Iron	7439-89-6	22,000		5.57	23.7		1
01656	Lithium	7439-93-2	26.1		0.26	2.4		1
01657	Magnesium	7439-95-4	5,220		3.00	11.8		1
06958	Manganese	7439-96-5	307		0.0922	0.591		1
10145	Phosphorus	7723-14-0	356		0.662	11.8		1
01662	Potassium	7440-09-7	2,640		21.3	59.1		1
01667	Sodium	7440-23-5	81.5	J	44.1	118		1
07968	Strontium	7440-24-6	17.7		0.0733	0.591		1
06969	Tin	7440-31-5	2.52	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,180		0.449	1.18		1
10146	Zirconium	7440-67-7	1.03	J	0.993	5.91		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0689	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.86		0.0919	0.460		2
06126	Barium	7440-39-3	121		0.124	0.460		2
06127	Beryllium	7440-41-7	0.710		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.140		0.0460	0.115		2
06131	Chromium	7440-47-3	21.9		0.138	0.460		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	7.16	0.0230	0.115		2
06133	Copper	7440-50-8	11.2	0.0758	0.460		2
06135	Lead	7439-92-1	5.39	0.0119	0.230		2
06138	Molybdenum	7439-98-7	0.650	0.0574	0.115		2
06139	Nickel	7440-02-0	15.6	0.115	0.460		2
06141	Selenium	7782-49-2	0.182 J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0596 J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.307	0.0345	0.115		2
06148	Vanadium	7440-62-2	42.6	0.0253	0.115		2
06149	Zinc	7440-66-6	65.5	0.643	3.45		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0103 J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.97	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9 U	10.9	36.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50 J	0.24	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	460	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.53	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-171-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-171-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 18:51	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 21:52	Sara E Johnson	19.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111024175	04/20/2011 20:20	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111024175	04/20/2011 20:37	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111024175	04/20/2011 20:38	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111024175	04/20/2011 20:18	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/28/2011 12:52	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 14:46	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 04:05	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:56	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:48	Damary Valentin	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-171-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 16:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 21:51	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11126243201A	05/10/2011 02:21	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13117 SDG#: DE131-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	8.0		0.85
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.85
06192	Methylene Chloride	75-09-2	0.67	J	0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

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Sample Description: SL-126-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13117 SDG#: DE131-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: **SL-126-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13117 SDG#: DE131-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1

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Sample Description: SL-126-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13117 SDG#: DE131-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,200		5.79	23.0		1
07914	Boron	7440-42-8	1.02	U	1.02	5.76		1
01650	Calcium	7440-70-2	3,630		7.06	23.0		1
01654	Iron	7439-89-6	23,400		5.42	23.0		1
01656	Lithium	7439-93-2	26.3		0.25	2.3		1
01657	Magnesium	7439-95-4	4,690		2.92	11.5		1
06958	Manganese	7439-96-5	213		0.0898	0.576		1
10145	Phosphorus	7723-14-0	148		0.645	11.5		1
01662	Potassium	7440-09-7	1,830		20.7	57.6		1
01667	Sodium	7440-23-5	113	J	42.9	115		1
07968	Strontium	7440-24-6	25.4		0.0714	0.576		1
06969	Tin	7440-31-5	3.04	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,190		0.437	1.15		1
10146	Zirconium	7440-67-7	1.94	J	0.967	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0699	J	0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.27		0.0912	0.456		2
06126	Barium	7440-39-3	102		0.123	0.456		2
06127	Beryllium	7440-41-7	0.930		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0612	J	0.0456	0.114		2
06131	Chromium	7440-47-3	21.1		0.137	0.456		2

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SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

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13117 SDG#: DE131-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	5.67	0.0228	0.114		2
06133	Copper	7440-50-8	7.40	0.0752	0.456		2
06135	Lead	7439-92-1	7.01	0.0119	0.228		2
06138	Molybdenum	7439-98-7	1.19	0.0570	0.114		2
06139	Nickel	7440-02-0	13.5	0.114	0.456		2
06141	Selenium	7782-49-2	0.0674 J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0569 J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.274	0.0342	0.114		2
06148	Vanadium	7440-62-2	40.6	0.0251	0.114		2
06149	Zinc	7440-66-6	50.1	0.638	3.42		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0188 J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	34.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	332	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.12	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-126-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-126-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
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Suite 210
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13117 SDG#: DE131-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 19:14	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 22:12	Sara E Johnson	20.1
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111024175	04/20/2011 20:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111024175	04/20/2011 20:38	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111024175	04/20/2011 20:38	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111024175	04/20/2011 20:22	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/28/2011 14:38	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 15:18	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 04:23	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 19:00	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:49	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-126-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13117 SDG#: DE131-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 16:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 22:13	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11126243201A	05/10/2011 02:34	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104B	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404B	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.93
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.93
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.93
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.93
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.93
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.93
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.93
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.93
06192	Methylene Chloride	75-09-2	0.75	J	0.25	4.2		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.93

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Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.93
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.89
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: **SL-127-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.71	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	1.6	J	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1

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Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	1.2	J	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		5.54	22.0		1
07914	Boron	7440-42-8	0.980	U	0.980	5.51		1
01650	Calcium	7440-70-2	2,230		6.75	22.0		1
01654	Iron	7439-89-6	19,800		5.19	22.0		1
01656	Lithium	7439-93-2	22.0		0.24	2.2		1
01657	Magnesium	7439-95-4	4,510		2.80	11.0		1
06958	Manganese	7439-96-5	295		0.0859	0.551		1
10145	Phosphorus	7723-14-0	465		0.617	11.0		1
01662	Potassium	7440-09-7	3,680		19.8	55.1		1
01667	Sodium	7440-23-5	62.0	J	41.1	110		1
07968	Strontium	7440-24-6	15.8		0.0683	0.551		1
06969	Tin	7440-31-5	2.41	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,020		0.419	1.10		1
10146	Zirconium	7440-67-7	1.22	J	0.925	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0804	J	0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.34		0.0881	0.441		2
06126	Barium	7440-39-3	144		0.119	0.441		2
06127	Beryllium	7440-41-7	0.736		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.132		0.0441	0.110		2
06131	Chromium	7440-47-3	24.2		0.132	0.441		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	8.81		0.0220	0.110		2
06133	Copper	7440-50-8	13.4		0.0727	0.441		2
06135	Lead	7439-92-1	8.28		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.624		0.0551	0.110		2
06139	Nickel	7440-02-0	16.7		0.110	0.441		2
06141	Selenium	7782-49-2	0.133	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0420	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.348		0.0330	0.110		2
06148	Vanadium	7440-62-2	45.4		0.0242	0.110		2
06149	Zinc	7440-66-6	96.3		0.617	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0035	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90	U	0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	341		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-127-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-127-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

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Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 19:36	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 22:32	Sara E Johnson	21.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111024175	04/20/2011 20:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111024175	04/20/2011 20:38	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111024175	04/20/2011 20:38	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111024175	04/20/2011 20:27	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/28/2011 15:05	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 15:51	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 04:42	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 19:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 15:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:50	Damary Valentin	1

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Analysis Report

Sample Description: **SL-127-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 17:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 22:35	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11126243201A	05/10/2011 02:40	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104B	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404B	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: TB-041911 Water
SSFL Area IV Collocated Soil Sampling
TB-041911

LLI Sample # WW 6262840
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13119 SDG#: DE131-19TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-041911 Water
SSFL Area IV Collocated Soil Sampling
TB-041911

LLI Sample # WW 6262840
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13119 SDG#: DE131-19TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111121AA	04/22/2011 13:59	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111101AA	04/20/2011 11:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111101AA	04/20/2011 11:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111121AA	04/22/2011 13:59	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB06-SA8N-SS-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13120 SDG#: DE131-20EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.501	U	0.501	1.00		1
	The recovery of the target compound was outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	19	U	19	58		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1

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Sample Description: **EB06-SA8N-SS-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13120 SDG#: DE131-20EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052		1
10137	Butylbenzylphthalate	85-68-7	0.052	U	0.052	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.30	J	0.052	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.052		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052		1
10137	Diethylphthalate	84-66-2	0.057	J	0.052	1.0		1
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.13	J	0.052	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.052		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.052		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.052		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.052		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.052		1
10137	Naphthalene	91-20-3	0.031	U	0.031	0.052		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.052		1
10137	Di-n-octylphthalate	117-84-0	0.25	J	0.052	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.052		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.052		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1

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Sample Description: **EB06-SA8N-SS-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13120 SDG#: DE131-20EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	15	J	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.097	U	0.097	0.49		1
10227	Aroclor 5442	12642-23-8	0.097	U	0.097	0.49		1
10227	Aroclor 5460	11126-42-4	0.097	U	0.097	0.49		1
10227	PCB-1016	12674-11-2	0.097	U	0.097	0.49		1
10227	PCB-1221	11104-28-2	0.097	U	0.097	0.49		1
10227	PCB-1232	11141-16-5	0.19	U	0.19	0.49		1
10227	PCB-1242	53469-21-9	0.097	U	0.097	0.49		1
10227	PCB-1248	12672-29-6	0.097	U	0.097	0.49		1
10227	PCB-1254	11097-69-1	0.097	U	0.097	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.19	U	0.19	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.61		1

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Sample Description: **EB06-SA8N-SS-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13120 SDG#: DE131-20EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.61		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
	was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.081	U	0.081	0.25		1
10319	o-Terphenyl	84-15-1	0.081	U	0.081	0.25		1
10319	p-Terphenyl	92-94-4	0.081	U	0.081	0.25		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0211	J	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0796	J	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00045	J	0.00038	0.0020		1

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Sample Description: **EB06-SA8N-SS-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13120 SDG#: DE131-20EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.3	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11110WAF026	04/21/2011 14:45	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11112WAJ026	04/24/2011 14:25	Matthew S Woods	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11110WAE026	04/22/2011 03:12	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11112WAJ026	04/23/2011 09:00	Olivia Arosemena	1

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Sample Description: **EB06-SA8N-SS-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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13120 SDG#: DE131-20EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10466	BNA Water Extraction SIM	SW-846 3510C	1	11110WAE026	04/20/2011 22:30	Elaine F Stoltzfus	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11110WAF026	04/21/2011 02:35	David V Hershey Jr	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111160001A	05/01/2011 22:37	Michele D Hamilton	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111110003A	04/22/2011 20:58	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111110024A	04/25/2011 22:54	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	111110024A	04/22/2011 10:45	Denise L Trimby	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111110003A	04/21/2011 14:30	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	111160001A	04/26/2011 13:50	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111100043A	04/29/2011 08:55	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111160038A	04/28/2011 02:45	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111110007A	04/21/2011 20:30	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111100042A	04/24/2011 02:19	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111100043A	04/21/2011 07:00	Joseph S Feister	1
10304	Terphenyls water prep	SW-846 3510C	1	111100042A	04/21/2011 07:00	Joseph S Feister	1
01743	Aluminum	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
08014	Boron	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
01750	Calcium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
01754	Iron	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
01756	Lithium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
07058	Manganese	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
01762	Potassium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
01767	Sodium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
08068	Strontium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
07069	Tin	SW-846 6010B	1	111171848001	05/02/2011 16:38	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
06024	Antimony	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111176050001D	04/28/2011 12:55	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111176050001C	04/28/2011 12:55	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111176050001B	04/28/2011 12:55	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB06-SA8N-SS-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13120 SDG#: DE131-20EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06049	Zinc	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111115713003	04/21/2011 19:28	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111171848001	04/27/2011 22:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111176050001	04/27/2011 22:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111115713003	04/21/2011 14:35	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11110196603C	04/21/2011 11:19	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11110196603C	04/21/2011 11:19	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11115196701A	04/26/2011 05:58	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11110196401A	04/20/2011 10:40	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11122117101A	05/03/2011 09:23	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11122117101A	05/02/2011 15:30	Carolyn M Mastropietro	1
00200	18b pH by 9040B	SW-846 9040B	1	11110020002A	04/20/2011 21:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB14-SA5A-SB-041911 Water
SSFL Area IV Collocated Soil Sampling
EB14-SA5A-SB-041911

LLI Sample # WW 6262842
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13121 SDG#: DE131-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.808	J	0.528	1.06		1
	The recovery of the target compound was outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB14-SA5A-SB-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB14-SA5A-SB-041911

LLI Sample # WW 6262842
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13121 SDG#: DE131-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.62		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days.								
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.085	U	0.085	0.27		1
10319	o-Terphenyl	84-15-1	0.085	U	0.085	0.27		1
10319	p-Terphenyl	92-94-4	0.085	U	0.085	0.27		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11110WAF026	04/21/2011 15:02	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11110WAF026	04/21/2011 02:35	David V Hershey Jr	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB14-SA5A-SB-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB14-SA5A-SB-041911

LLI Sample # WW 6262842
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13121 SDG#: DE131-21EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11116B20A	04/27/2011 00:45	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11116B20A	04/27/2011 00:45	Laura M Krieger	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111160001A	05/02/2011 00:44	Michele D Hamilton	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111110003A	04/22/2011 21:08	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111110003A	04/21/2011 14:30	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	111160001A	04/26/2011 13:50	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111100043A	04/29/2011 09:20	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111160038A	04/28/2011 03:00	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111110007A	04/21/2011 20:47	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111100042A	04/24/2011 03:04	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111100043A	04/21/2011 07:00	Joseph S Feister	1
10304	Terphenyls water prep	SW-846 3510C	1	111100042A	04/21/2011 07:00	Joseph S Feister	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11110196603C	04/21/2011 11:33	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11122117101A	05/03/2011 09:24	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11122117101A	05/02/2011 15:30	Carolyn M Mastropietro	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111111AA	Sample number(s): 6262837-6262839									
Acetone	6.7	U	6.7	8.0	ug/kg	157	152	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	104	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101	101	79-120	0	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	120	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92	92	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	88	90	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	87	83	32-162	5	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	119	121	46-153	2	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	107	105	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	109	108	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99	97	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	94	92	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	98	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	88	82	37-154	7	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	63	64	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	99	80-120	0	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	93	92	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	101	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101	100	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	91	86	22-131	5	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	92	94	58-120	3	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	91	92	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98	98	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	94	97	80-120	4	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	98	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	98	100	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	98	79-120	0	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	79	77	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	102	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	93	95	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112	110	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99	100	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	102	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	101	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99	99	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	85	84	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98	97	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88	91	80-120	3	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	85	87	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	99	98	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	118	114	61-126	3	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	105	103	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98	97	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	108	113	45-155	5	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99	97	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105	103	75-120	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	87	90	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	92	98	61-134	6	30
Methylene Chloride	0.46	J	0.24	4.0	ug/kg	106	107	76-124	0	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	113	107	77-120	5	30
Styrene	0.10	U	0.10	4.0	ug/kg	93	92	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	93	93	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	105	108	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	97	77-120	3	30
Toluene	0.08	U	0.08	4.0	ug/kg	102	100	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94	97	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	90	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95	94	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	99	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	96	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	100	97	58-133	4	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101	104	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102	101	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	106	102	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93	91	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98	97	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	93	93	80-120	0	30
Batch number: E111101AA	Sample number(s): 6262840									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	115	120	80-123	4	30
Batch number: E111102AA	Sample number(s): 6262837-6262839									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	97	109	70-130	11	30
Batch number: Y111121AA	Sample number(s): 6262840									
Acetone	6	U	6.	20	ug/l	119	118	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	96	94	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	113	111	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	109	106	80-120	3	30
Bromoform	1	U	1.	5	ug/l	97	94	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	102	100	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	108	106	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	92	92	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	96	96	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	94	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	126*	122	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	88	86	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	89	89	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	113	111	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	92	91	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	85	84	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	93	92	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	103	100	80-120	3	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	101	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	109	109	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	99	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	99	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	102	98	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	97	95	79-120	2	30

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	128	126	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	101	95	74-123	6	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	97	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	92	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	91	89	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	95	94	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	94	93	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	101	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	94	92	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	86	89	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	96	79-120	4	30
Freon 113	2	U	2.	10	ug/l	109	104	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	120	118	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	106	106	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	92	92	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	104	101	77-120	3	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	98	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	93	94	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	94	92	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
Styrene	1	U	1.	5	ug/l	94	92	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	105	104	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	85	86	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	109	105	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	92	90	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	103	103	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	96	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	100	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	94	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	108	103	80-120	5	30
Trichlorofluoromethane	2	U	2.	5	ug/l	130*	125	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	101	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	97	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	99	97	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	86	84	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
Batch number: 11110WAE026	Sample number(s): 6262841									
Acenaphthene	0.010	U	0.010	0.050	ug/l	103	104	74-109	1	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	99	98	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	98	97	66-111	0	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	101	101	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	100	102	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	115	114	69-123	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	98	97	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	100	99	59-130	1	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	86	84	40-138	3	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	98	97	74-131	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	100	100	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	100	99	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	78	77	57-134	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	65	61	40-119	5	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	116	121	57-154	4	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	100	101	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	103	104	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	101	101	69-124	0	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	99	100	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	88	89	75-115	2	30
Naphthalene	0.030	U	0.030	0.050	ug/l	94	95	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	66	64	36-89	4	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	115	126	57-145	9	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	98	97	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	104	106	69-118	2	30
Batch number: 11110WAF026	Sample number(s): 6262841-6262842									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	60*	77	70-130	25	30
Batch number: 11112WAJ026	Sample number(s): 6262841									
Aniline	1	U	1.	5	ug/l	80	77	49-101	3	30
Benzidine	20	U	20.	60	ug/l	84	79	34-117	7	30
Benzoic acid	6	U	6.	15	ug/l	25	33	10-69	31*	30
Benzyl alcohol	5	U	5.	15	ug/l	78	79	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	94	93	82-117	1	30
Carbazole	1	U	1.	5	ug/l	100	102	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	92	92	70-123	0	30
4-Chloroaniline	1	U	1.	5	ug/l	77	73	42-124	5	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	98	99	74-124	0	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	99	97	77-108	2	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	89	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	78	85	54-132	8	30
2-Chlorophenol	1	U	1.	5	ug/l	94	93	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	97	95	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	98	95	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	79	74	55-118	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	74	67	50-119	9	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	77	71	53-119	8	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	77	72	49-111	7	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	97	97	80-109	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	95	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	99	98	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	93	96	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	98	98	52-131	0	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	102	101	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	97	97	85-115	0	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	106	106	78-116	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	96	96	81-118	0	30
Hexachlorobutadiene	1	U	1.	5	ug/l	66	59	57-124	11	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	67	58	36-118	14	30
Hexachloroethane	1	U	1.	5	ug/l	63	55	52-113	13	30
Isophorone	1	U	1.	5	ug/l	96	96	74-117	0	30
2-Methylphenol	1	U	1.	5	ug/l	81	81	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	84	85	61-103	1	30
2-Nitroaniline	1	U	1.	5	ug/l	101	98	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	99	99	74-113	0	30
4-Nitroaniline	1	U	1.	5	ug/l	79	79	59-100	0	30
Nitrobenzene	1	U	1.	5	ug/l	100	100	75-109	0	30
2-Nitrophenol	1	U	1.	5	ug/l	98	98	86-120	0	30
4-Nitrophenol	10	U	10.	30	ug/l	51	52	16-78	1	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	93	92	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	102	102	67-136	0	30
Pentachlorophenol	3	U	3.	15	ug/l	83	84	53-110	1	30
Phenol	1	U	1.	5	ug/l	39	41	21-67	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	79	71-112	8	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	100	79-107	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	100	101	81-113	1	30
Batch number: 11115SLB026	Sample number(s): 6262819-6262832,6262834-6262839									
Acenaphthene	33	U	33.	170	ug/kg	85		76-111		
Acenaphthylene	33	U	33.	170	ug/kg	86		75-122		
Aniline	170 U		170.	500	ug/kg	77		34-94		
Anthracene	33	U	33.	170	ug/kg	84		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	74		15-121		
Benzo(a)anthracene	33	U	33.	170	ug/kg	88		73-112		
Benzo(a)pyrene	33	U	33.	170	ug/kg	89		69-122		
Benzo(b)fluoranthene	33	U	33.	170	ug/kg	85		61-127		
Benzo(g,h,i)perylene	33	U	33.	170	ug/kg	86		65-122		
Benzo(k)fluoranthene	33	U	33.	170	ug/kg	89		67-125		
Benzoic acid	170 U		170.	500	ug/kg	100		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	86		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	73*		79-117		
Butylbenzylphthalate	67	U	67.	170	ug/kg	100		75-115		
Di-n-butylphthalate	67	U	67.	170	ug/kg	81		79-112		
Carbazole	33	U	33.	170	ug/kg	85		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	68		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	85		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	75		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	74		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	87		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	80		79-110		
Chrysene	33	U	33.	170	ug/kg	89		76-113		
Dibenz(a,h)anthracene	33	U	33.	170	ug/kg	88		70-128		
Dibenzofuran	33	U	33.	170	ug/kg	84		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	80		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	76		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	77		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	56		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	89		75-111		
Diethylphthalate	67	U	67.	170	ug/kg	86		76-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	86		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	98		70-130		
Dimethylphthalate	67	U	67.	170	ug/kg	85		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	65		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	49		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	93		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	93		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	80		77-111		
bis(2-Ethylhexyl)phthalate	67	U	67.	330	ug/kg	97		75-117		
Fluoranthene	33	U	33.	170	ug/kg	83		78-116		
Fluorene	33	U	33.	170	ug/kg	84		75-116		
Hexachlorobenzene	33	U	33.	170	ug/kg	82		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	73		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	61		46-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachloroethane	33	U	33.	170	ug/kg	74		68-105		
Indeno(1,2,3-cd)pyrene	33	U	33.	170	ug/kg	91		64-119		
Isophorone	33	U	33.	170	ug/kg	89		69-110		
1-Methylnaphthalene	33	U	33.	170	ug/kg	89		74-105		
2-Methylnaphthalene	33	U	33.	170	ug/kg	82		76-105		
2-Methylphenol	67	U	67.	170	ug/kg	89		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	86		66-117		
Naphthalene	33	U	33.	170	ug/kg	83		73-106		
2-Nitroaniline	33	U	33.	170	ug/kg	93		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	86		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	91		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	79		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	80		63-107		
N-Nitrosodimethylamine	67	U	67.	170	ug/kg	92		60-106		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	82		67-141		
Di-n-octylphthalate	67	U	67.	170	ug/kg	97		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	76		51-117		
Phenanthrene	33	U	33.	170	ug/kg	81		77-113		
Phenol	33	U	33.	170	ug/kg	90		58-112		
Pyrene	33	U	33.	170	ug/kg	94		75-115		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	82		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	85		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 11117SLA026	Sample number(s): 6262819-6262832,6262834-6262839									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	96		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	101		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	118		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	124		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	129		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	132		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	106		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	111		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	128		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	96		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	108		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	104		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	104		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	127		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	99		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	96		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	119		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	101		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	104		56-121		
Batch number: 11117SLE026	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836									
N-Nitrosodimethylamine	34.7		16.7	33.3	ng/kg	78		70-130		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11116B20A	Sample number(s): 6262842									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111160001A	Sample number(s): 6262841-6262842									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	110	80-120	10	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	93	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	93	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	100	100	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	75-121	0	30
Nitroglycerin	5.2	U	5.2	15	ug/l	96	92	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	100	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	99	100	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	117	117	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	90	91	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	80	85	72-141	6	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	94	94	53-129	0	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	110*	76-109	10	30
Batch number: 111160004A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	116		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	107	54-134	9	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	106	54-134	9	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	114		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	110		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
HMX	100 U		100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	124*		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	96		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	112		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	114		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800 U		800.	2,400	ug/kg	124*		80-120		
RDX	50	U	50.	120	ug/kg	107		75-131		
Tetryl	61	U	61.	120	ug/kg	91		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 111110003A	Sample number(s): 6262841-6262842									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	98	96	69-130	2	30
Batch number: 111160002A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	105		80-126		
Batch number: 111110024A	Sample number(s): 6262841									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	92*	96*	35-84	4	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1016	0.10	U	0.10	0.50	ug/l	92	90	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	114	112	56-135	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111150016A	Sample number(s): 6262819-6262832,6262834-6262839									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	90	100	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	110		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111100043A	Sample number(s): 6262841-6262842									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	96	96	60-120	0	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	101	104	60-120	3	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	77	100	60-120	26	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	100	100	60-120	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	72	70	60-120	3	30
Batch number: 111170029A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	102		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	78		66-113		
Batch number: 111110007A	Sample number(s): 6262841-6262842									
Diethylene glycol	10	U	10.	100	mg/l	100	120	78-126	18	20
Ethylene glycol	10	U	10.	100	mg/l	90	110	80-124	20	20
Propylene glycol	10	U	10.	100	mg/l	95	110	80-120	15	20
Batch number: 111110008A	Sample number(s): 6262819-6262821,6262823,6262828-6262829									
Diethylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	104		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Batch number: 111120005A	Sample number(s): 6262830-6262832,6262834-6262836									
Diethylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	113		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	112		75-125		
Batch number: 111150003A	Sample number(s): 6262822									
Diethylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	101		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111150025A	Sample number(s): 6262819-6262823,6262828-6262832									
Ethanol	100 U		100.	500	ug/kg	99		71-129		
Isopropanol	100 U		100.	500	ug/kg	97		75-125		
Methanol	100 U		100.	500	ug/kg	94		68-129		
Batch number: 111150026A	Sample number(s): 6262834-6262836									
Ethanol	100 U		100.	500	ug/kg	101		71-129		
Isopropanol	100 U		100.	500	ug/kg	99		75-125		
Methanol	100 U		100.	500	ug/kg	102		68-129		
Batch number: 111160038A	Sample number(s): 6262841-6262842									
Ethanol	200 U		200.	1,000	ug/l	104		66-132		
Isopropanol	200 U		200.	1,000	ug/l	104		75-125		
Methanol	200 U		200.	1,000	ug/l	108		71-140		
Batch number: 111100042A	Sample number(s): 6262841-6262842									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	86	88	75-125	3	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	86	89	75-125	4	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	84	87	75-125	3	20
Batch number: 111220022A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
Batch number: 111115713003	Sample number(s): 6262841									
Mercury	0.000046 U		0.00004 6	0.00020	mg/l	95	94	80-120	2	20
Batch number: 111161026002A	Sample number(s): 6262819-6262839									
Antimony	0.0577	U	0.0577	0.192	mg/kg	51		27-181		
Arsenic	0.0769	U	0.0769	0.385	mg/kg	96		83-113		
Beryllium	0.0154	U	0.0154	0.0962	mg/kg	96		86-111		
Cadmium	0.0385	U	0.0385	0.0962	mg/kg	102		82-118		
Chromium	0.115	U	0.115	0.385	mg/kg	102		80-120		
Cobalt	0.0192	U	0.0192	0.0962	mg/kg	103		82-118		
Copper	0.107	J	0.0635	0.385	mg/kg	99		83-110		
Lead	0.0100	U	0.0100	0.192	mg/kg	92		83-110		
Nickel	0.0962	U	0.0962	0.385	mg/kg	98		81-110		
Silver	0.0115	U	0.0115	0.0962	mg/kg	97		81-111		
Thallium	0.0288	U	0.0288	0.0962	mg/kg	94		83-110		
Vanadium	0.0888	J	0.0212	0.0962	mg/kg	95		84-116		
Zinc	0.608	J	0.538	2.88	mg/kg	100		81-112		
Batch number: 111161026002B	Sample number(s): 6262819-6262839									
Selenium	0.0385	U	0.0385	0.385	mg/kg	101		83-111		
Batch number: 111161026002C	Sample number(s): 6262819-6262839									
Molybdenum	0.0481	U	0.0481	0.0962	mg/kg	104		78-122		

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Quality Control Summary

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111161026002D	Sample number(s): 6262819-6262839								
Barium	0.104 U	0.104	0.385	mg/kg	98		81-111		
Batch number: 111165708002	Sample number(s): 6262819-6262839								
Aluminum	4.93 U	4.93	19.6	mg/kg	87		61-110		
Boron	0.873 U	0.873	4.90	mg/kg	93		78-110		
Calcium	6.24 J	6.01	19.6	mg/kg	99		88-110		
Iron	4.62 U	4.62	19.6	mg/kg	82		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.49 U	2.49	9.80	mg/kg	93		82-110		
Manganese	0.0765 U	0.0765	0.490	mg/kg	99		89-112		
Phosphorus	1.04 J	0.549	9.80	mg/kg	102		80-120		
Potassium	17.6 U	17.6	49.0	mg/kg	94		78-110		
Sodium	36.6 U	36.6	98.0	mg/kg	97		87-110		
Strontium	0.0608 U	0.0608	0.490	mg/kg	100		86-110		
Tin	1.61 J	0.980	9.80	mg/kg	91		90-114		
Titanium	0.373 U	0.373	0.980	mg/kg	83		80-120		
Zirconium	0.824 U	0.824	4.90	mg/kg	99		80-120		
Batch number: 111165711002	Sample number(s): 6262819-6262839								
Mercury	0.0029 U	0.0029	0.0999	mg/kg	94		88-123		
Batch number: 111171848001	Sample number(s): 6262841								
Aluminum	0.0834 U	0.0834	0.200	mg/l	100	98	90-112	2	20
Boron	0.0156 J	0.0138	0.0500	mg/l	100	98	89-110	2	20
Calcium	0.0702 U	0.0702	0.200	mg/l	106	104	90-112	2	20
Iron	0.0522 U	0.0522	0.200	mg/l	108	106	90-112	2	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	101	101	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	104	102	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	105	103	90-110	2	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	103	102	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	101	99	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	101	101	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	107	106	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	102	101	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	103	90-113	2	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	104	103	80-120	1	20
Batch number: 111176050001A	Sample number(s): 6262841								
Antimony	0.00030 U	0.00030	0.0010	mg/l	100	101	87-110	1	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	96	99	86-111	3	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	100	103	90-112	3	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	98	100	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	97	109	90-118	11	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	97	102	87-113	6	20
Copper	0.00038 U	0.00038	0.0020	mg/l	100	105	90-113	5	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	95	103	90-115	8	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	99	105	90-113	6	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	98	105	90-115	6	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	94	90	89-116	5	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	96	107	89-116	11	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	99	106	90-116	7	20
Batch number: 111176050001B	Sample number(s): 6262841								
Selenium	0.00025 U	0.00025	0.0020	mg/l	104	103	85-114	0	20

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111176050001C	Sample number(s): 6262841								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	100	105	89-115	6	20
Batch number: 111176050001D	Sample number(s): 6262841								
Barium	0.00053 U	0.00053	0.0020	mg/l	100	108	88-113	8	20
Batch number: 11110196401A	Sample number(s): 6262841								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	102	103	90-110	1	20
Batch number: 11110196603C	Sample number(s): 6262841-6262842								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	103	102	90-110	1	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	100	99	90-110	2	20
Batch number: 11115196701A	Sample number(s): 6262841								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	90	96	85-115	6	20
Batch number: 11118102201A	Sample number(s): 6262819-6262823,6262828-6262831,6262833-6262835								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	104		80-120		
Batch number: 11118102201B	Sample number(s): 6262836								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	104		80-120		
Batch number: 11122117101A	Sample number(s): 6262841-6262842								
17b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	105	105	90-110	0	20
Batch number: 11122621201A	Sample number(s): 6262819-6262828								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	104		90-110		
Batch number: 11122621201B	Sample number(s): 6262829-6262831,6262833-6262839								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	104		90-110		
Batch number: 11123495201A	Sample number(s): 6262819-6262828								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	90		85-115		
Batch number: 11123495201B	Sample number(s): 6262829-6262831,6262833-6262839								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	90		85-115		
Batch number: 11126243201A	Sample number(s): 6262819-6262831,6262833-6262839								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11110020002A	Sample number(s): 6262841								
18b pH by 9040B					100	100	90-110	0	1
Batch number: 11111039403B	Sample number(s): 6262819-6262825								
18a pH by 9045C					100		95-105		
Batch number: 11111039404A	Sample number(s): 6262826-6262830,6262833-6262837								
18a pH by 9045C					100		95-105		
Batch number: 11111039404B	Sample number(s): 6262838-6262839								
18a pH by 9045C					100		95-105		
Batch number: 11111182103B	Sample number(s): 6262819-6262825								
32a OR Potential					99		98-102		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11111182104A	Sample number(s): 6262826-6262830,6262833-6262837								
32a OR Potential					99		98-102		
Batch number: 11111182104B	Sample number(s): 6262838-6262839								
32a OR Potential					99		98-102		
Batch number: 11119162401A	Sample number(s): 6262824-6262827,6262837-6262839								
Moisture Content by 160.3					100		80-120		
Batch number: 11124162401B	Sample number(s): 6262819-6262823,6262828-6262836								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111111AA	Sample number(s): 6262837-6262839 UNSPK: P264845								
Acetone	127	122	15-210	7	30				
Benzene	103	107	55-143	0	30				
Bromobenzene	86	97	43-139	8	30				
Bromochloromethane	109	119	60-137	5	30				
Bromodichloromethane	86	91	53-136	3	30				
Bromoform	76	77	38-124	2	30				
Bromomethane	82	87	42-168	3	30				
2-Butanone	94	92	37-163	5	30				
n-Butylbenzene	86	105	30-146	17	30				
sec-Butylbenzene	91	109	33-157	15	30				
tert-Butylbenzene	83	98	41-152	13	30				
Carbon Tetrachloride	95	98	45-153	1	30				
Chlorobenzene	89	97	49-135	5	30				
Chloroethane	80	89	39-152	7	30				
2-Chloroethyl Vinyl Ether	48	50	32-139	0	30				
Chloroform	96	101	61-142	0	30				
Chloromethane	100	100	51-163	3	30				
2-Chlorotoluene	86	99	42-146	10	30				
4-Chlorotoluene	84	98	39-145	12	30				
1,2-Dibromo-3-chloropropane	70	68	30-139	6	30				
Dibromochloromethane	80	84	51-128	2	30				
1,2-Dibromoethane	85	87	54-129	1	30				
Dibromomethane	85	88	57-130	0	30				
1,2-Dichlorobenzene	80	92	36-133	10	30				
1,3-Dichlorobenzene	82	95	34-134	11	30				
1,4-Dichlorobenzene	82	94	35-136	10	30				
Dichlorodifluoromethane	87	82	26-151	10	30				
1,1-Dichloroethane	100	104	63-142	1	30				
1,2-Dichloroethane	87	90	68-131	1	30				
1,1-Dichloroethene	119	120	61-149	3	30				
cis-1,2-Dichloroethene	95	100	60-136	1	30				
trans-1,2-Dichloroethene	102	105	59-142	1	30				

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Quality Control Summary

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Reported: 05/20/11 at 10:48 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichloropropane	96	102	62-135	3	30				
1,3-Dichloropropane	87	90	58-129	0	30				
2,2-Dichloropropane	85	88	53-147	1	30				
1,1-Dichloropropene	99	103	54-145	1	30				
cis-1,3-Dichloropropene	80	89	51-131	7	30				
trans-1,3-Dichloropropene	73	79	49-129	4	30				
Ethylbenzene	88	98	44-141	7	30				
Freon 113	131	127	56-156	7	30				
Hexachlorobutadiene	77	98	10-155	19	30				
2-Hexanone	81	80	32-160	5	30				
Isopropylbenzene	86	98	38-144	9	30				
p-Isopropyltoluene	86	104	29-152	15	30				
Methyl Tertiary Butyl Ether	77	79	55-129	1	30				
4-Methyl-2-pentanone	79	76	46-139	8	30				
Methylene Chloride	103	104	61-141	3	30				
n-Propylbenzene	95	111	39-157	11	30				
Styrene	81	91	35-134	8	30				
1,1,1,2-Tetrachloroethane	83	90	52-130	4	30				
1,1,2,2-Tetrachloroethane	89	88	40-152	5	30				
Tetrachloroethene	91	99	42-149	4	30				
Toluene	94	101	50-146	3	30				
1,2,3-Trichlorobenzene	73	85	10-140	12	30				
1,2,4-Trichlorobenzene	67	79	10-136	13	30				
1,1,1-Trichloroethane	91	94	64-142	0	30				
1,1,2-Trichloroethane	88	91	54-139	1	30				
Trichloroethene	95	100	53-144	2	30				
Trichlorofluoromethane	109	109	47-163	4	30				
1,2,3-Trichloropropane	85	85	45-154	4	30				
1,2,4-Trimethylbenzene	84	99	37-149	13	30				
1,3,5-Trimethylbenzene	87	102	38-150	12	30				
Vinyl Chloride	100	102	50-154	2	30				
m+p-Xylene	87	96	44-137	7	30				
o-Xylene	81	91	42-137	8	30				
Batch number: 11115SLB026	Sample number(s): 6262819-6262832,6262834-6262839 UNSPK: 6262830								
Acenaphthene	98	99	75-115	1	30				
Acenaphthylene	96	103	81-110	7	30				
Aniline	69	66	35-95	4	30				
Anthracene	96	99	75-115	3	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	107	103	65-122	5	30				
Benzo(a)pyrene	100	107	57-126	6	30				
Benzo(b)fluoranthene	96	97	59-125	1	30				
Benzo(g,h,i)perylene	83	93	59-127	10	30				
Benzo(k)fluoranthene	97	101	56-132	3	30				
Benzoic acid	123	110	10-173	11	30				
Benzyl alcohol	96	102	67-115	6	30				
4-Bromophenyl-phenylether	93	98	67-129	5	30				
Butylbenzylphthalate	121	121	73-134	1	30				
Di-n-butylphthalate	96	99	67-123	2	30				
Carbazole	95	98	64-120	2	30				
4-Chloro-3-methylphenol	114*	111*	76-110	4	30				
4-Chloroaniline	65	64	23-95	3	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroethoxy)methane	94	93	75-104	1	30				
bis(2-Chloroethyl)ether	94	93	60-116	2	30				
bis(2-Chloroisopropyl)ether	81	85	55-142	4	30				
2-Chloronaphthalene	69	90	50-141	27	30				
2-Chlorophenol	95	108	73-121	12	30				
4-Chlorophenyl-phenylether	95	100	80-109	4	30				
Chrysene	108	101	62-128	7	30				
Dibenz(a,h)anthracene	92	96	65-125	5	30				
Dibenzofuran	95	102	71-112	7	30				
1,2-Dichlorobenzene	89	93	66-108	5	30				
1,3-Dichlorobenzene	84	87	63-109	4	30				
1,4-Dichlorobenzene	85	88	70-100	4	30				
3,3'-Dichlorobenzidine	81	67	16-119	19	30				
2,4-Dichlorophenol	105	106	78-117	0	30				
Diethylphthalate	100	103	66-118	3	30				
2,4-Dimethylphenol	100	100	78-110	1	30				
3,5-Dimethylphenol	111	113	70-130	2	30				
Dimethylphthalate	100	101	64-118	0	30				
4,6-Dinitro-2-methylphenol	53	50	24-116	6	30				
2,4-Dinitrophenol	41	39	20-143	4	30				
2,4-Dinitrotoluene	102	110	73-113	8	30				
2,6-Dinitrotoluene	103	108	69-123	5	30				
1,2-Diphenylhydrazine	99	103	71-129	3	30				
bis(2-Ethylhexyl)phthalate	122	117	63-122	5	30				
Fluoranthene	89	93	73-112	4	30				
Fluorene	99	104	77-111	4	30				
Hexachlorobenzene	93	100	77-114	7	30				
Hexachlorobutadiene	91	87	62-120	5	30				
Hexachlorocyclopentadiene	42	38	10-153	10	30				
Hexachloroethane	85	79	57-109	7	30				
Indeno(1,2,3-cd)pyrene	91	95	61-126	5	30				
Isophorone	99	97	73-102	2	30				
1-Methylnaphthalene	103	102	73-112	1	30				
2-Methylnaphthalene	94	94	76-114	0	30				
2-Methylphenol	98	104	75-111	6	30				
4-Methylphenol	102	105	71-111	3	30				
Naphthalene	96	93	72-116	3	30				
2-Nitroaniline	114	119	67-125	4	30				
3-Nitroaniline	106	111	59-122	3	30				
4-Nitroaniline	91	92	52-112	0	30				
Nitrobenzene	96	96	72-106	0	30				
2-Nitrophenol	97	102	74-115	4	30				
4-Nitrophenol	96	98	54-113	1	30				
N-Nitroso-di-n-propylamine	94	98	60-116	4	30				
N-Nitrosodimethylamine	79	89	47-116	12	30				
N-Nitrosodiphenylamine	97	99	86-145	2	30				
Di-n-octylphthalate	113	115	56-126	1	30				
Pentachlorophenol	37	54	28-127	38*	30				
Phenanthrene	95	95	65-125	0	30				
Phenol	99	100	58-126	1	30				
Pyrene	108	101	74-126	6	30				
1,2,4-Trichlorobenzene	92	92	72-115	0	30				
2,4,5-Trichlorophenol	100	102	78-109	2	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,6-Trichlorophenol	100	107	77-115	6	30				
Batch number: 11117SLA026	Sample number(s): 6262819-6262832,6262834-6262839 UNSPK: 6262830								
Acenaphthene	99	97	63-105	3	30				
Acenaphthylene	95	95	67-114	0	30				
Anthracene	99	96	60-122	3	30				
Benzo(a)anthracene	102	99	59-128	3	30				
Benzo(a)pyrene	114	110	45-138	3	30				
Benzo(b)fluoranthene	132	128	43-155	4	30				
Benzo(g,h,i)perylene	60	58	33-141	2	30				
Benzo(k)fluoranthene	115	114	42-144	0	30				
Butylbenzylphthalate	116	111	57-173	4	30				
Di-n-butylphthalate	104	102	65-148	2	30				
Chrysene	98	94	48-134	4	30				
Dibenz(a,h)anthracene	77	78	22-133	1	30				
Diethylphthalate	84	83	70-136	1	30				
Dimethylphthalate	99	98	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	123	116	39-167	6	30				
Fluoranthene	106	100	26-166	5	30				
Fluorene	101	99	66-122	2	30				
Indeno(1,2,3-cd)pyrene	76	73	21-143	5	30				
1-Methylnaphthalene	97	96	72-123	1	30				
2-Methylnaphthalene	87	86	64-103	2	30				
Naphthalene	95	92	61-102	3	30				
N-Nitrosodimethylamine	97	97	48-113	0	30				
Di-n-octylphthalate	159	152	40-192	4	30				
Phenanthrene	96	93	12-165	3	30				
Pyrene	93	88	15-153	5	30				
Batch number: 11117SLE026	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836 UNSPK: 6262830								
N-Nitrosodimethylamine	55*	56*	70-130	2	30				
Batch number: 111160004A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836 UNSPK: 6262830								
4-Amino-2,6-Dinitrotoluene	102	108	80-127	5	50				
2-Amino-4,6-Dinitrotoluene	100	107	80-137	6	50				
1,3-Dinitrobenzene	102	108	38-166	5	50				
2,4-Dinitrotoluene	99	105	80-131	6	50				
2,6-Dinitrotoluene	104	110	80-127	5	50				
HMX	91	99	63-128	8	50				
Nitrobenzene	98	109	80-125	11	50				
Nitroglycerin	94	99	80-120	6	50				
2-Nitrotoluene	101	106	80-122	4	50				
3-Nitrotoluene	105	110	72-119	4	50				
4-Nitrotoluene	100	104	80-125	4	50				
PETN	113	121	80-121	7	50				
RDX	93	97	75-129	5	50				
Tetryl	92	92	55-174	0	50				
1,3,5-Trinitrobenzene	99	105	82-126	6	50				
2,4,6-Trinitrotoluene	101	106	82-130	5	50				
Batch number: 111160002A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836 UNSPK: 6262830								
25a Formaldehyde 8315A	97	103	80-120	7	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111150016A	Sample number(s): 6262819-6262832,6262834-6262839 UNSPK: 6262830								
PCB-1016	92	102	29-146	11	50				
PCB-1260	111	128	39-149	14	50				
Batch number: 111170029A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836 UNSPK: 6262830								
EFH (C12-C14)	93	93	49-123	0	20				
EFH (C15-C20)	103	115	49-123	7	20				
EFH (C21-C30)	147*	157*	49-123	2	20				
EFH (C30 - C40)	159 (2)	228 (2)	49-123	8	20				
EFH (C8-C11)	73	70	49-123	5	20				
Batch number: 111110008A	Sample number(s): 6262819-6262821,6262823,6262828-6262829 UNSPK: 6262819								
Diethylene glycol	54*	82	59-109	42*	20				
Ethylene glycol	76	87	63-107	13	20				
Propylene glycol	84	92	63-107	9	20				
Batch number: 111120005A	Sample number(s): 6262830-6262832,6262834-6262836 UNSPK: 6262830								
Diethylene glycol	91	98	59-109	7	20				
Ethylene glycol	82	85	63-107	4	20				
Propylene glycol	90	89	63-107	1	20				
Batch number: 111150003A	Sample number(s): 6262822 UNSPK: P264845								
Diethylene glycol	82	26*	59-109	104*	20				
Ethylene glycol	84	64	63-107	27*	20				
Propylene glycol	82	63	63-107	26*	20				
Batch number: 111150025A	Sample number(s): 6262819-6262823,6262828-6262832 UNSPK: 6262830								
Ethanol	82	78	48-130	4	20				
Isopropanol	82	81	12-149	2	20				
Methanol	82	80	43-138	2	20				
Batch number: 111150026A	Sample number(s): 6262834-6262836 UNSPK: P264819								
Ethanol	73	68	48-130	7	20				
Isopropanol	79	78	12-149	2	20				
Methanol	72	70	43-138	3	20				
Batch number: 111160038A	Sample number(s): 6262841-6262842 UNSPK: P262150								
Ethanol	96	100	62-145	4	20				
Isopropanol	100	100	73-131	0	20				
Methanol	96	96	52-159	0	20				
Batch number: 111220022A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836 UNSPK: 6262830								
m-Terphenyl	83	84	75-125	1	20				
o-Terphenyl	98	99	75-125	1	20				
p-Terphenyl	92	94	75-125	2	20				
Batch number: 111161026002A	Sample number(s): 6262819-6262839 UNSPK: 6262830 BKG: 6262830								
Antimony	36*	44*	75-125	23*	20	0.0600 U	0.0668 J	200* (1)	20
Arsenic	105	114	75-125	3	20	5.43	5.58	3	20
Beryllium	113	119	75-125	4	20	0.577	0.497	15	20
Cadmium	115	128*	75-125	11	20	0.138	0.175	24* (1)	20
Chromium	108	105	75-125	0	20	16.7	14.9	11	20
Cobalt	123	127*	75-125	5	20	6.34	5.36	17	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Copper	116	126*	75-125	6	20	9.31	8.19	13	20
Lead	92 (2)	102	75-125	2	20	11.8	10.6	11	20
Nickel	115	127*	75-125	6	20	12.1	10.4	15	20
Silver	123	125	75-125	3	20	0.0236 J	0.0320 J	30* (1)	20
Thallium	111	112	75-125	1	20	0.275	0.285	3 (1)	20
Vanadium	93	102	75-125	3	20	33.9	30.3	11	20
Zinc	71 (2)	92 (2)	75-125	3	20	72.8	63.1	14	20
Batch number: 111161026002B	Sample number(s): 6262819-6262839 UNSPK: 6262830 BKG: 6262830								
Selenium	113	114	75-125	2	20	0.112 J	0.116 J	3 (1)	20
Batch number: 111161026002C	Sample number(s): 6262819-6262839 UNSPK: 6262830 BKG: 6262830								
Molybdenum	114	118	75-125	5	20	0.461	0.471	2 (1)	20
Batch number: 111161026002D	Sample number(s): 6262819-6262839 UNSPK: 6262830 BKG: 6262830								
Barium	77 (2)	510 (2)	75-125	32*	20	107	91.9	15	20
Batch number: 111165708002	Sample number(s): 6262819-6262839 UNSPK: 6262830 BKG: 6262830								
Aluminum	1033 (2)	1129 (2)	75-125	1	20	11,500	11,600	1	20
Boron	99	99	84-115	1	20	1.32 J	0.864 U	200* (1)	20
Calcium	148 (2)	162 (2)	75-125	2	20	2,000	1,950	2	20
Iron	712 (2)	974 (2)	75-125	1	20	17,100	17,400	2	20
Lithium	99	100	82-114	0	20	23.4	23.5	0	20
Magnesium	142 (2)	173 (2)	75-125	1	20	3,730	3,720	0	20
Manganese	103 (2)	110 (2)	75-125	1	20	284	287	1	20
Phosphorus	86 (2)	85 (2)	75-125	0	20	396	389	2	20
Potassium	115	120	75-125	1	20	3,240	3,210	1	20
Sodium	100	101	75-125	0	20	64.1 J	61.9 J	4 (1)	20
Strontium	102	102	75-115	1	20	13.5	13.1	3	20
Tin	86	87	80-110	0	20	2.19 J	2.32 J	6 (1)	20
Titanium	200 (2)	238 (2)	75-125	3	20	993	965	3	20
Zirconium	90	91	75-125	0	20	1.69 J	2.21 J	27* (1)	20
Batch number: 111165711002	Sample number(s): 6262819-6262839 UNSPK: 6262830 BKG: 6262830								
Mercury	94	91	65-135	3	20	0.0166 J	0.0177 J	6 (1)	20
Batch number: 11118102201A	Sample number(s): 6262819-6262823,6262828-6262831,6262833-6262835 UNSPK: 6262830 BKG: 6262830								
17a Cyanide by 9012B	114		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11118102201B	Sample number(s): 6262836 UNSPK: P264819 BKG: P264819								
17a Cyanide by 9012B	103		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11122621201A	Sample number(s): 6262819-6262828 UNSPK: 6262819 BKG: 6262819								
11a Anions by 300.0 - Fluoride	58*		80-120			2.5	1.1	74* (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			25.9	25.6	1	20
Batch number: 11122621201B	Sample number(s): 6262829-6262831,6262833-6262839 UNSPK: 6262830 BKG: 6262830								
11a Anions by 300.0 - Fluoride	49*		80-120			0.80 U	0.95 J	200* (1)	20
11a Anions by 300.0 - Nitrate	94		80-120			3.2	3.0	6 (1)	20
Batch number: 11123495201A	Sample number(s): 6262819-6262828 UNSPK: 6262819 BKG: 6262819								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
7a Perchlorate EPA 314.0	94		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11123495201B	Sample number(s): 6262829-6262831,6262833-6262839 UNSPK: 6262830 BKG: 6262830										
7a Perchlorate EPA 314.0	93		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11126243201A	Sample number(s): 6262819-6262831,6262833-6262839 UNSPK: 6262830 BKG: 6262830										
3a Cr VI by EPA 7199	94		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11111039403B	Sample number(s): 6262819-6262825 BKG: P261702										
18a pH by 9045C						6.16		6.19		0	1
Batch number: 11111039404A	Sample number(s): 6262826-6262830,6262833-6262837 BKG: 6262830										
18a pH by 9045C						5.92		5.92		0	1
Batch number: 11111039404B	Sample number(s): 6262838-6262839 BKG: 6262838										
18a pH by 9045C						8.12		8.13		0	1
Batch number: 11111182103B	Sample number(s): 6262819-6262825 BKG: P261702										
32a OR Potential						373		379		1	6
Batch number: 11111182104A	Sample number(s): 6262826-6262830,6262833-6262837 BKG: 6262830										
32a OR Potential						449		451		0	6
Batch number: 11111182104B	Sample number(s): 6262838-6262839 BKG: 6262838										
32a OR Potential						332		333		0	6
Batch number: 11119162401A	Sample number(s): 6262824-6262827,6262837-6262839 BKG: 6262838										
Moisture Content by 160.3						14.0		14.0		0	20
Batch number: 11124162401B	Sample number(s): 6262819-6262823,6262828-6262836 BKG: 6262830										
28a Moisture Content by 160.3						8.2		8.3		1	20
Moisture Content by 160.3						8.2		8.3		1	20
Moisture Content by 160.3						8.2		8.3		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111111AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6262837	98	96	101	88
6262838	99	99	100	88
6262839	100	101	100	89
Blank	101	104	100	89
LCS	98	98	104	97
LCSD	98	99	104	97
MS	99	103	103	99

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

MSD	98	98	103	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111101AA

	Toluene-d8
6262840	99
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111102AA

	Toluene-d8
6262837	97
6262838	97
6262839	97
Blank	97
LCS	97
LCSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111121AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6262840	114	103	96	96
Blank	109	102	99	98
LCS	114	104	97	99
LCSD	112	102	97	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11110WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6262841	104	92	105
Blank	95	94	106
LCS	100	94	97
LCSD	98	92	98
Limits:	64-147	68-132	53-129

Analysis Name: 15b NDMA by 1625C
Batch number: 11110WAF026

	N-Nitrosodimethylamine-d6
6262841	155*
6262842	153*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

Blank	82
LCS	141
LCSD	97
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11112WAJ026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6262841	55	33	77	94	93	87
Blank	70	46	98	98	94	86
LCS	66	41	101	97	96	87
LCSD	66	41	96	95	92	84
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11115SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6262819	95	94	109	91	89	89
6262820	96	93	112	93	93	92
6262821	105	98	96	84	82	84
6262822	104	100	110	90	92	90
6262823	110	102	111	96	90	90
6262824	97	87	108	84	79	92
6262825	101	93	94	89	88	92
6262826	99	92	99	87	81	92
6262827	103	99	93	91	89	91
6262828	99	96	96	94	89	91
6262829	104	100	89	93	91	94
6262830	103	99	107	89	89	94
6262831	103	98	106	95	87	96
6262832	104	102	108	98	97	93
6262834	105	99	104	91	92	87
6262835	101	93	98	95	92	94
6262836	91	93	114	96	93	92
6262837	101	99	112	92	85	86
6262838	85	82	96	92	89	95
6262839	91	88	90	91	90	94
Blank	106	104	121	95	94	95
LCS	90	86	102	84	76	84
MS	103	98	106	95	87	96
MSD	104	102	108	98	97	93
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11117SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6262819	91	83	88
6262820	93	86	87
6262821	100	91	80
6262822	102	92	79
6262823	97	90	79

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

6262824	92	82	89
6262825	96	89	83
6262826	100	92	81
6262827	98	90	82
6262828	95	91	77
6262829	89	85	74
6262830	95	88	89
6262831	101	86	89
6262832	100	87	87
6262834	97	95	79
6262835	95	87	83
6262836	93	87	82
6262837	88	84	79
6262838	85	81	82
6262839	93	88	83
Blank	107	101	110
LCS	99	92	98
MS	101	86	89
MSD	100	87	87
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11117SLE026

	N-Nitrosodimethylamine-d6
6262819	117
6262820	106
6262821	255*
6262822	91
6262823	105
6262828	106
6262829	102
6262830	108
6262831	120
6262832	122
6262834	98
6262835	145
6262836	95
Blank	85
LCS	84
MS	120
MSD	122
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11116B20A

	Trifluorotoluene-F
6262842	74
Blank	75
LCS	114
LCSD	109
Limits:	63-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111110003A

	Butyraldehyde
6262841	115
6262842	114
Blank	111
LCS	111
LCSD	108
Limits:	45-145

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111110024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6262841	105	119
Blank	112	114
LCS	104	103
LCSD	109	115
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111150016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6262819	99	107
6262820	107	128*
6262821	103	110
6262822	69	77
6262823	95	113
6262824	100	106
6262825	112	120
6262826	80	83
6262827	72	80
6262828	107	115
6262829	115	117
6262830	107	121*
6262831	97	113
6262832	105	124*
6262834	103	110
6262835	103	108
6262836	112	115
6262837	102	107
6262838	107	114
6262839	99	113
Blank	106	112
LCS	104	115
LCSD	104	124*
MS	97	113
MSD	105	131*
Limits:	53-139	45-120

Analysis Name: 16b Energetics by 8330A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

Batch number: 111160001A

	2-Nitro-m-xylene
6262841	96
6262842	102
Blank	95
LCS	98
LCSD	97
Limits:	50-134

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111160002A

	Butyraldehyde
6262819	83
6262820	92
6262821	90
6262822	94
6262823	104
6262828	98
6262829	91
6262830	89
6262831	97
6262832	103
6262834	93
6262835	92
6262836	91
Blank	95
LCS	98
MS	97
MSD	103
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111160004A

	2-Nitro-m-xylene
6262819	102
6262820	105
6262821	98
6262822	107
6262823	100
6262828	101
6262829	114
6262830	96
6262831	98
6262832	101
6262834	104
6262835	102
6262836	94
Blank	109
LCS	101
LCSD	107
MS	98
MSD	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

Limits: 80-146

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111100042A

	n-Triacontane-d62
6262841	70
6262842	71
Blank	71
LCS	68
LCSD	69

Limits: 50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111100043A

	Chlorobenzene	Orthoterphenyl
6262841	87	98
6262842	77	88
Blank	72	81
LCS	85	98
LCSD	85	100

Limits: 28-152 52-131

Analysis Name: 21b Glycols by 8015B
Batch number: 111110007A

	Tetramethylene glycol
6262841	104
6262842	102
Blank	102
LCS	103
LCSD	117

Limits: 77-119

Analysis Name: 21a Glycols by 8015B
Batch number: 111110008A

	Tetramethylene glycol
6262819	88
6262820	41
6262821	48
6262823	69
6262828	122
6262829	75
Blank	104
LCS	103
MS	108
MSD	89

Limits: 29-137

Analysis Name: 21a Glycols by 8015B

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

Batch number: 111120005A

	Tetramethylene glycol
6262830	70
6262831	94
6262832	90
6262834	106
6262835	52
6262836	65
Blank	115
LCS	108
MS	94
MSD	90
Limits:	29-137

Analysis Name: 21a Glycols by 8015B
Batch number: 111150003A

	Tetramethylene glycol
6262822	72
Blank	101
LCS	103
MS	92
MSD	59
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111150025A

	Acetone
6262819	80
6262820	75
6262821	67
6262822	82
6262823	82
6262828	92
6262829	86
6262830	86
6262831	85
6262832	89
Blank	100
LCS	99
MS	85
MSD	89
Limits:	42-138

Analysis Name: 19a Alcohols by 8015B
Batch number: 111150026A

	Acetone
6262834	89
6262835	78
6262836	85
Blank	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

LCS	101
MS	98
MSD	99
Limits:	42-138

Analysis Name: 19b Alcohols by 8015B
Batch number: 111160038A

	Acetone
6262841	94
6262842	94
Blank	101
LCS	96
MS	96
MSD	94
Limits:	54-147

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111170029A

	Chlorobenzene	Orthoterphenyl
6262819	67	100
6262820	70	93
6262821	67	99
6262822	91	129
6262823	74	121
6262828	69	104
6262829	69	93
6262830	64	101
6262831	81	108
6262832	85	112
6262834	86	121
6262835	76	113
6262836	65	95
Blank	93	110
LCS	91	108
MS	81	108
MSD	85	112
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111220022A

	n-Triacontane-d62
6262819	73
6262820	69
6262821	65
6262822	66
6262823	63
6262828	66
6262829	76
6262830	70
6262831	72
6262832	76

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

6262834	71
6262835	67
6262836	69
Blank	77
LCS	77
MS	72
MSD	76
Limits:	50-150

*- Outside of specification
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acct#13013 Gp#1242943 Sample#62602819-42

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ Perhex chrome analysis, lab will measure pH and ORP $ Moisture by SPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Sampler's Signature: Steve J Brit						*Metals EPA 6010B/6020A/7470A	*Metals EPA 200.8	*PAHs EPA 8270 SIM	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Chlordane/Toxaphene EPA 1613B	*Pesticides EPA 314.0	*Hex. Chrome EPA 7196*	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPA EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Total Hg EPA 7470A	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
SL-075-SA8N-SS-0.0-0.5	04.19.11	0845	SOIL	NONE	2-16 oz jars	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-075-SA8N-SS-0.0-0.5	04.19.11	0845	SOIL	NONE	1 SS sleeve				X	X															
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	2-16 oz jars	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	1 SS sleeve				X	X															
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	2-16 oz jars	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	1 SS sleeve				X	X															
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	2-16 oz jars	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	1 SS sleeve				X	X															
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	2-16 oz jars	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	1 SS sleeve				X	X															
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1-16 oz jars	X	X				X	X	X	X											
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1 SS sleeve				X	X															
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1-16 oz jars	X	X				X	X	X	X											
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1 SS sleeve				X	X															
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1-16 oz jars	X	X				X	X	X	X											
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1 SS sleeve				X	X															
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1-16 oz jars	X	X				X	X	X	X											
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1 SS sleeve				X	X															
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	2-16 oz jars	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	1 SS sleeve				X	X															
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	2-16 oz jars	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	1 SS sleeve				X	X															
SL-136-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	4-16 oz jars	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	MS/MSD
SL-136-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	2 SS sleeve				X	X															MS/MSD
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	2-16 oz jars	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	1 SS sleeve				X	X															
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	2-16 oz jars	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	1 SS sleeve				X	X															
~~DUP04-SA8N-041044~~	04.19.11	1105	SOIL	NONE	2-16 oz jars	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	
~~DUP04-SA8N-041911~~	04.19.11	1105	SOIL	NONE	1 SS sleeve				X	X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/19/2011 / 1700	Mary Hubard 4/20/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.: 8700 5992 3000, 2996	

→ DUP04-SA8N-QC-041911 per PB. NLM 5/6/11

acct#13013 Cp# 1242943 Sample# 6262819-42

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
‡ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-171-SA5A-SB-2.5	04.19.11	0940	SOIL	NONE	4-Encores										X	X											
SL-171-SA5A-SB-2.0-3.0	04.19.11	0942	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-126-SA5A-SB-4.5	04.19.11	1225	SOIL	NONE	4-Encores										X	X											
SL-126-SA5A-SB-4.-5.0	04.19.11	1227	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-127-SA5A-SB-2.5	04.19.11	1115	SOIL	NONE	4-Encores										X	X											
SL-127-SA5A-SB-2.0-3.0	04.19.11	1117	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
TB-041911	04.19.11	0800	WATER	NONE	3-40 mL vials										X	X											TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/19/2011 / 1700	4/20/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s) 8700 5932 2974	

acct#13013 Gp#1242943 sample#626281942

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP ‡ Moisture by SW6 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which discrete were collected Sampler Signature: Steve Blute						*Metals EPA 6010B/6020B/7471A	*Diuretics EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	SCMs/PCBs EPA 8082	*Diox/Furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-DRO EPA 8015B $	**TPH-LEH EPA 8015B Mod.	**Nitrates SW6 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Emerging EPA 8330A	**Cyanides EPA 9012B	**Trephenyls EPA 8015B	**Glycols EPA 8015A	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																					
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	7-1 liter ambers			X	X	X										X	X		X			
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	1-500 mL poly		X				X	X	X													
EB06-SA8N-SS-041911	04.19.11	1200	WATER	HNO3	1-500 mL poly	X																				
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	5-1 liter ambers												X			X	X		X			
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NaOH	1-500 mL glass																	X				
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	1-250 mL glass														X							
EB06-SA8N-SS-041911	04.19.11	1200	WATER	HCl	2-40 mL vials																				X	
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	4-40 mL vials													X						X		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		Laboratory:
	04/19/2011 / 1700	Mary Hubert	4/20/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	AirBill No.(s)		
		8700 5932 2985,2996		

acct# 13013 Qp* 1242943 Sample* 62062819-42

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS										SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which liners were collected Samplers Signature:						*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesel/Purge EPA TX1005	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	*pH EPA SM4500-B/H2O	Perchlorate Confirmation by EPA 6850 (LPA)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/M $	TPH-GRO EPA 8015B $	*TPH-EPH EPA 8015B Mod.	*Nitrates EPA 300.0	*Formaldehyde EPA 8315A	*N-NDMA EPA 1625C	*Energetics EPA 8330A	*Cyanide EPA 9012B	*Perchlorate EPA 6850	*Glycols EPA 8015B	*Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																									
EB14-SA5A-SB-041911	04.19.11	1300	WATER	NONE	5-1L amber																X				X		X			
EB14-SA5A-SB-041911	04.19.11	1300	WATER	HCl	5-40mL Vials															X									X	
EB14-SA5A-SB-041911	04.19.11	1300	WATER	NONE	4-40mL Vials																	X						X		
EB14-SA5A-SB-041911	04.19.11	1300	WATER	NONE	1-250mL galss																		X							
EB14-SA5A-SB-041911	04.19.11	1300	WATER	NaOH	1-500mL poly																					X				
Relinquished by: (Signature)	Date/Time: 04/19/2011 / 1700		Received for Laboratory by: (Signature): 4/20/11 915																										Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature)	Date/Time		Airbill No.(s): 8700 5932 2974																											

Nicole Maljovec Acct#13013 Grp#1242943 Sample#G262819-42

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Wednesday, May 04, 2011 3:42 PM
To: Nicole Maljovec
Subject: RE: Revision to COC dated 4.19.2011

I thought I had replied to this. You are correct it should be 041911 and not 041011 (that was a typo!).

P

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Wednesday, May 04, 2011 12:28 PM
To: Bloisa, Peggy
Subject: RE: Revision to COC dated 4.19.2011

Hi Peggy,
Did you have a chance to check on this one?

Thanks!
Nicole

From: Nicole Maljovec
Sent: Monday, May 02, 2011 11:58 AM
To: 'Bloisa, Peggy'
Subject: RE: Revision to COC dated 4.19.2011

Hi Peggy,
I was reviewing this change today and noticed the date. Did you mean DUP04-SA8N-QC-041911?

Thanks!
Nicole

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Friday, April 22, 2011 5:09 PM
To: Nicole Maljovec; Hartman, Pamela
Cc: Zakowski, Cherie; Burgesser, Todd
Subject: Revision to COC dated 4.19.2011

Hi Nicole – would you please make the following change to surface soil sample DUP04-SA8N-041911? The sample number should read as DUP04-SA8N-QC-041011.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 23, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/21/2011
Group Number: 1243236
SDG: DE133
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-148-SA5A-SB-4.0-5.0 Soil	6264845
SL-148-SA5A-SB-4.0-5.0MS Soil	6264846
SL-148-SA5A-SB-4.0-5.0MSD Soil	6264847
SL-148-SA5A-SB-4.0-5.0DUP Soil	6264848
SL-148-SA5A-SB-9.0-10.0 Soil	6264849
DUP15-SA5A-QC-042011 Soil	6264850
TB-042011 Water	6264851

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-148-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264845
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1	U	6.1	7.3		0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.6		0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6		0.81
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.6		0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6		0.81
06192	Bromoform	75-25-2	0.36	U	0.36	3.6		0.81
06192	Bromomethane	74-83-9	0.23	U	0.23	3.6		0.81
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3		0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6		0.81
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6		0.81
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.6		0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.6		0.81
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.6		0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6		0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6		0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.6		0.81
06192	Chloromethane	74-87-3	0.30	U	0.30	3.6		0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.6		0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.6		0.81
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.6		0.81
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6		0.81
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6		0.81
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.6		0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6		0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6		0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.6		0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6		0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6		0.81
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.6		0.81
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.6		0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6		0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6		0.81
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6		0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6		0.81
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6		0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6		0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.6		0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6		0.81
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.6		0.81
06192	Freon 113	76-13-1	0.1	U	0.1	3.6		0.81
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.6		0.81
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3		0.81
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6		0.81
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.6		0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6		0.81
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.3		0.81
06192	Methylene Chloride	75-09-2	0.76	J	0.22	3.6		0.81
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6		0.81

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-148-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264845
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.6		0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.6		0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6		0.81
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6		0.81
06192	Toluene	108-88-3	0.07	U	0.07	3.6		0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.6		0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6		0.81
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6		0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.6		0.81
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.6		0.81
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6		0.81
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.6		0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6		0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6		0.81
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6		0.81
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.6		0.81
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6		0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.3	U	4.3	13		19.17
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	50.5		18.6	37.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Sample Description: SL-148-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264845
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: **SL-148-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264845
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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Sample Description: **SL-148-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264845
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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13301 SDG#: DE133-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	1.2	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		5.47	21.8		1
07914	Boron	7440-42-8	1.92	J	0.969	5.44		1
01650	Calcium	7440-70-2	2,020		6.67	21.8		1
01654	Iron	7439-89-6	19,900		5.13	21.8		1
01656	Lithium	7439-93-2	23.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,080		2.76	10.9		1

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Sample Description: SL-148-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264845
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	303		0.0849	0.544		1
10145	Phosphorus	7723-14-0	234		0.610	10.9		1
01662	Potassium	7440-09-7	2,360		19.6	54.4		1
01667	Sodium	7440-23-5	116		40.6	109		1
07968	Strontium	7440-24-6	21.2		0.0675	0.544		1
06969	Tin	7440-31-5	2.58	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,110		0.414	1.09		1
10146	Zirconium	7440-67-7	1.70	J	0.914	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.191	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.37		0.0862	0.431		2
06126	Barium	7440-39-3	108		0.116	0.431		2
06127	Beryllium	7440-41-7	0.703		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.0431	U	0.0431	0.108		2
06131	Chromium	7440-47-3	17.9		0.129	0.431		2
06132	Cobalt	7440-48-4	6.36		0.0216	0.108		2
06133	Copper	7440-50-8	7.21		0.0711	0.431		2
06135	Lead	7439-92-1	5.29		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.625		0.0539	0.108		2
06139	Nickel	7440-02-0	12.3		0.108	0.431		2
06141	Selenium	7782-49-2	0.124	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0367	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.260		0.0323	0.108		2
06148	Vanadium	7440-62-2	35.7		0.0237	0.108		2
06149	Zinc	7440-66-6	50.4		0.604	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0196	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: **SL-148-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264845
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	415	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.49	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-148-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 20:43	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152AA	04/25/2011 16:23	Jason M Long	19.17
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111124189	04/21/2011 18:09	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111124189	04/21/2011 18:32	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111124189	04/21/2011 18:08	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11118SLI026	05/06/2011 19:57	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLK026	05/06/2011 13:38	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 11:12	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11118SLI026	04/29/2011 03:35	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLK026	04/29/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34A	04/22/2011 17:10	Elizabeth J Marin	21.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111124189	04/21/2011 18:07	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/18/2011 15:07	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170003A	04/29/2011 02:10	Michele D Hamilton	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-148-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264845
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160015A	04/27/2011 18:47	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160015A	04/26/2011 16:40	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170003A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180036A	05/02/2011 14:41	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 17:18	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111150003A	04/26/2011 15:47	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230017A	05/06/2011 03:21	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180036A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230017A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111150003A	04/26/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:01	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:14	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-148-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264845
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201B	05/07/2011 19:38	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11125495201B	05/07/2011 19:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11126126201A	05/08/2011 11:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11135243202A	05/16/2011 22:41	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201A	05/03/2011 09:28	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201B	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11126126201A	05/06/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201A	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182101B	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401B	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11135243202A	05/15/2011 09:40	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401A	05/13/2011 17:52	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-148-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264846
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	170	6.0	7.2		0.81
06192	Benzene	71-43-2	19	0.09	3.6		0.81
06192	Bromobenzene	108-86-1	15	0.12	3.6		0.81
06192	Bromochloromethane	74-97-5	20	0.30	3.6		0.81
06192	Bromodichloromethane	75-27-4	15	0.07	3.6		0.81
06192	Bromoform	75-25-2	14	0.36	3.6		0.81
06192	Bromomethane	74-83-9	15	0.23	3.6		0.81
06192	2-Butanone	78-93-3	130	1.1	7.2		0.81
06192	n-Butylbenzene	104-51-8	15	0.11	3.6		0.81
06192	sec-Butylbenzene	135-98-8	16	0.05	3.6		0.81
06192	tert-Butylbenzene	98-06-6	15	0.14	3.6		0.81
06192	Carbon Tetrachloride	56-23-5	17	0.13	3.6		0.81
06192	Chlorobenzene	108-90-7	16	0.1	3.6		0.81
06192	Chloroethane	75-00-3	14	0.12	3.6		0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	8.7	0.27	3.6		0.81
06192	Chloroform	67-66-3	17	0.11	3.6		0.81
06192	Chloromethane	74-87-3	18	0.30	3.6		0.81
06192	2-Chlorotoluene	95-49-8	16	0.13	3.6		0.81
06192	4-Chlorotoluene	106-43-4	15	0.13	3.6		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	13	0.63	3.6		0.81
06192	Dibromochloromethane	124-48-1	14	0.18	3.6		0.81
06192	1,2-Dibromoethane	106-93-4	15	0.15	3.6		0.81
06192	Dibromomethane	74-95-3	15	0.22	3.6		0.81
06192	1,2-Dichlorobenzene	95-50-1	14	0.08	3.6		0.81
06192	1,3-Dichlorobenzene	541-73-1	15	0.11	3.6		0.81
06192	1,4-Dichlorobenzene	106-46-7	15	0.14	3.6		0.81
06192	Dichlorodifluoromethane	75-71-8	16	0.11	3.6		0.81
06192	1,1-Dichloroethane	75-34-3	18	0.09	3.6		0.81
06192	1,2-Dichloroethane	107-06-2	16	0.14	3.6		0.81
06192	1,1-Dichloroethene	75-35-4	21	0.35	3.6		0.81
06192	cis-1,2-Dichloroethene	156-59-2	17	0.17	3.6		0.81
06192	trans-1,2-Dichloroethene	156-60-5	18	0.11	3.6		0.81
06192	1,2-Dichloropropane	78-87-5	17	0.15	3.6		0.81
06192	1,3-Dichloropropane	142-28-9	16	0.07	3.6		0.81
06192	2,2-Dichloropropane	594-20-7	15	0.15	3.6		0.81
06192	1,1-Dichloropropene	563-58-6	18	0.12	3.6		0.81
06192	cis-1,3-Dichloropropene	10061-01-5	14	0.14	3.6		0.81
06192	trans-1,3-Dichloropropene	10061-02-6	13	0.15	3.6		0.81
06192	Ethylbenzene	100-41-4	16	0.05	3.6		0.81
06192	Freon 113	76-13-1	24	0.1	3.6		0.81
06192	Hexachlorobutadiene	87-68-3	14	0.13	3.6		0.81
06192	2-Hexanone	591-78-6	73	1.4	7.2		0.81
06192	Isopropylbenzene	98-82-8	16	0.05	3.6		0.81
06192	p-Isopropyltoluene	99-87-6	15	0.1	3.6		0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	14	0.19	3.6		0.81
06192	4-Methyl-2-pentanone	108-10-1	71	0.35	7.2		0.81
06192	Methylene Chloride	75-09-2	19	0.22	3.6		0.81
06192	n-Propylbenzene	103-65-1	17	0.06	3.6		0.81
06192	Styrene	100-42-5	15	0.09	3.6		0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	15	0.1	3.6		0.81

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Sample Description: SL-148-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264846
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	1,1,2,2-Tetrachloroethane	79-34-5	16		0.21	3.6		0.81
06192	Tetrachloroethene	127-18-4	17		0.18	3.6		0.81
06192	Toluene	108-88-3	17		0.07	3.6		0.81
06192	1,2,3-Trichlorobenzene	87-61-6	13		0.13	3.6		0.81
06192	1,2,4-Trichlorobenzene	120-82-1	12		0.16	3.6		0.81
06192	1,1,1-Trichloroethane	71-55-6	16		0.18	3.6		0.81
06192	1,1,2-Trichloroethane	79-00-5	16		0.24	3.6		0.81
06192	Trichloroethene	79-01-6	17		0.14	3.6		0.81
06192	Trichlorofluoromethane	75-69-4	20		0.26	3.6		0.81
06192	1,2,3-Trichloropropane	96-18-4	15		0.30	3.6		0.81
06192	1,2,4-Trimethylbenzene	95-63-6	15		0.36	3.6		0.81
06192	1,3,5-Trimethylbenzene	108-67-8	16		0.09	3.6		0.81
06192	Vinyl Chloride	75-01-4	18		0.18	3.6		0.81
06192	m+p-Xylene	179601-23-1	31		0.15	3.6		0.81
06192	o-Xylene	95-47-6	15		0.15	3.6		0.81
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	110		4.5	14		20.29
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	549		18.4	36.8		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,900		19	190		1
04688	Aniline	62-53-3	1,300		190	560		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	1,700		190	560		1
04688	Benzyl alcohol	100-51-6	1,800		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190		1
04688	Butylbenzylphthalate	85-68-7	2,100		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	190		1
04688	4-Chloroaniline	106-47-8	900		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,400		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		37	190		1
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-148-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264846
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Dibenzofuran	132-64-9	1,800	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,700	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,700	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190		1
04688	Diethylphthalate	84-66-2	1,800	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	37	190		1
04688	3,5-Dimethylphenol	108-68-9	1,800	37	190		1
04688	Dimethylphthalate	131-11-3	1,800	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,800	190	560		1
04688	2,4-Dinitrophenol	51-28-5	3,000	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,900	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	19	370		1
04688	Fluoranthene	206-44-0	1,600	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	1,700	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,700	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,400	190	560		1
04688	Hexachloroethane	67-72-1	1,500	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	19	190		1
04688	Isophorone	78-59-1	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190		1
04688	2-Methylphenol	95-48-7	1,800	37	190		1
04688	4-Methylphenol	106-44-5	1,900	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	1,800	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	37	190		1
04688	4-Nitroaniline	100-01-6	1,300	75	190		1
04688	Nitrobenzene	98-95-3	1,800	19	190		1
04688	2-Nitrophenol	88-75-5	1,800	19	190		1
04688	4-Nitrophenol	100-02-7	1,600	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	19	190		1
04688	Pentachlorophenol	87-86-5	1,700	190	560		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,800	19	190		1
04688	Pyrene	129-00-0	2,100	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190		1

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Sample Description: **SL-148-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264846
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4,5-Trichlorophenol	95-95-4	1,800		37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32		0.75	1.9		1
10138	Acenaphthylene	208-96-8	31		0.37	1.9		1
10138	Anthracene	120-12-7	33		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	34		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	38		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	40		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	44		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	41		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	37		6.7	20		1
10138	Di-n-butylphthalate	84-74-2	34		6.7	20		1
10138	Chrysene	218-01-9	35		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	41		0.75	1.9		1
10138	Diethylphthalate	84-66-2	29		6.7	20		1
10138	Dimethylphthalate	131-11-3	35		6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	40		6.7	20		1
10138	Fluoranthene	206-44-0	34		0.75	1.9		1
10138	Fluorene	86-73-7	34		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	43		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	32		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	29		0.75	1.9		1
10138	Naphthalene	91-20-3	31		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	34		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	43		6.7	20		1
10138	Phenanthrene	85-01-8	34		0.75	1.9		1
10138	Pyrene	129-00-0	36		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	6.2		0.2	0.9		20.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400		67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,400		45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,200		45	130	10000000	1

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Sample Description: SL-148-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264846
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	2,300		45	130	10000000	1
10132	HMX	2691-41-0	2,100		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,300		45	130	10000000	1
10132	Nitroglycerin	55-63-0	51,000		900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	2,200		90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,300		110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,200		90	130	10000000	1
10132	PETN	78-11-5	64,000		900	2,700	10000000	1
10132	RDX	121-82-4	2,200		56	130	10000000	1
10132	Tetryl	479-45-8	1,900		69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,200		45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,600		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	17		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	19		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.80	J	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	1.4		0.45	1.3		1
10199	EFH (C21-C30)	n.a.	2.6		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	3.7		0.45	1.3		1

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Sample Description: **SL-148-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264846
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.50	J	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		110	560		1
10501	Isopropanol	67-63-0	2,200		110	560		1
10501	Methanol	67-56-1	2,200		110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	180		5.6	14		1
08283	Ethylene glycol	107-21-1	190		5.6	14		1
08283	Propylene glycol	57-55-6	180		5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6		1.5	1.5		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7		1.6	1.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,000		5.47	21.8		1
07914	Boron	7440-42-8	219		0.969	5.44		1
01650	Calcium	7440-70-2	2,590		6.67	21.8		1
01654	Iron	7439-89-6	21,200		5.13	21.8		1
01656	Lithium	7439-93-2	136		0.24	2.2		1
01657	Magnesium	7439-95-4	4,550		2.76	10.9		1
06958	Manganese	7439-96-5	396		0.0849	0.544		1
10145	Phosphorus	7723-14-0	339		0.610	10.9		1
01662	Potassium	7440-09-7	3,790		19.6	54.4		1
01667	Sodium	7440-23-5	1,210		40.6	109		1
07968	Strontium	7440-24-6	128		0.0675	0.544		1
06969	Tin	7440-31-5	387		1.09	10.9		1
06970	Titanium	7440-32-6	1,390		0.414	1.09		1
10146	Zirconium	7440-67-7	108		0.914	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.867		0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.75		0.0888	0.444		2
06126	Barium	7440-39-3	127		0.120	0.444		2
06127	Beryllium	7440-41-7	1.59		0.0178	0.111		2
06128	Cadmium	7440-43-9	1.22		0.0444	0.111		2
06131	Chromium	7440-47-3	29.1		0.133	0.444		2
06132	Cobalt	7440-48-4	65.8		0.0222	0.111		2
06133	Copper	7440-50-8	18.9		0.0733	0.444		2

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Sample Description: **SL-148-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264846
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	9.21	0.0115	0.222		2
06138	Molybdenum	7439-98-7	12.0	0.0555	0.111		2
06139	Nickel	7440-02-0	25.4	0.111	0.444		2
06141	Selenium	7782-49-2	2.33	0.0444	0.444		2
06142	Silver	7440-22-4	11.7	0.0133	0.111		2
06145	Thallium	7440-28-0	0.763	0.0333	0.111		2
06148	Vanadium	7440-62-2	50.1	0.0244	0.111		2
06149	Zinc	7440-66-6	63.4	0.622	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.181	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.9	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.0	0.90	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	638	10.1	33.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	39.7	1.1	5.6		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	5.5	0.20	0.56		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-148-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 21:05	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152AA	04/25/2011 16:43	Jason M Long	20.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111124189	04/21/2011 18:12	Lois E Hiltz	n.a.

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Sample Description: SL-148-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264846
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111124189	04/21/2011 18:32	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11118SLI026	05/06/2011 20:14	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLK026	05/06/2011 14:04	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 11:43	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11118SLI026	04/29/2011 03:35	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLK026	04/29/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34A	04/22/2011 17:46	Elizabeth J Marin	20.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111124189	04/21/2011 18:11	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/18/2011 15:49	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170003A	04/29/2011 02:20	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160015A	04/27/2011 19:06	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160015A	04/26/2011 16:40	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170003A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180036A	05/02/2011 15:06	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 17:33	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111150003A	04/26/2011 16:22	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230017A	05/06/2011 04:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180036A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230017A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111150003A	04/26/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-148-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264846
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201B	05/07/2011 20:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11125495201B	05/07/2011 20:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11126126201A	05/08/2011 12:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11135243202A	05/16/2011 22:59	Ashley M Adams	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201A	05/03/2011 09:30	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201B	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11126126201A	05/06/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201A	05/02/2011 15:30	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11135243202A	05/15/2011 09:40	Kenneth A Bell	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401A	05/13/2011 17:52	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-148-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264847
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	160	5.8	7.0		0.78
06192	Benzene	71-43-2	19	0.09	3.5		0.78
06192	Bromobenzene	108-86-1	17	0.11	3.5		0.78
06192	Bromochloromethane	74-97-5	21	0.29	3.5		0.78
06192	Bromodichloromethane	75-27-4	16	0.07	3.5		0.78
06192	Bromoform	75-25-2	13	0.35	3.5		0.78
06192	Bromomethane	74-83-9	15	0.22	3.5		0.78
06192	2-Butanone	78-93-3	120	1.1	7.0		0.78
06192	n-Butylbenzene	104-51-8	18	0.10	3.5		0.78
06192	sec-Butylbenzene	135-98-8	19	0.05	3.5		0.78
06192	tert-Butylbenzene	98-06-6	17	0.14	3.5		0.78
06192	Carbon Tetrachloride	56-23-5	17	0.12	3.5		0.78
06192	Chlorobenzene	108-90-7	17	0.1	3.5		0.78
06192	Chloroethane	75-00-3	15	0.11	3.5		0.78
06192	2-Chloroethyl Vinyl Ether	110-75-8	8.7	0.26	3.5		0.78
06192	Chloroform	67-66-3	17	0.10	3.5		0.78
06192	Chloromethane	74-87-3	17	0.29	3.5		0.78
06192	2-Chlorotoluene	95-49-8	17	0.12	3.5		0.78
06192	4-Chlorotoluene	106-43-4	17	0.12	3.5		0.78
06192	1,2-Dibromo-3-chloropropane	96-12-8	12	0.61	3.5		0.78
06192	Dibromochloromethane	124-48-1	15	0.17	3.5		0.78
06192	1,2-Dibromoethane	106-93-4	15	0.15	3.5		0.78
06192	Dibromomethane	74-95-3	15	0.21	3.5		0.78
06192	1,2-Dichlorobenzene	95-50-1	16	0.08	3.5		0.78
06192	1,3-Dichlorobenzene	541-73-1	16	0.10	3.5		0.78
06192	1,4-Dichlorobenzene	106-46-7	16	0.14	3.5		0.78
06192	Dichlorodifluoromethane	75-71-8	14	0.10	3.5		0.78
06192	1,1-Dichloroethane	75-34-3	18	0.09	3.5		0.78
06192	1,2-Dichloroethane	107-06-2	16	0.13	3.5		0.78
06192	1,1-Dichloroethene	75-35-4	21	0.34	3.5		0.78
06192	cis-1,2-Dichloroethene	156-59-2	17	0.16	3.5		0.78
06192	trans-1,2-Dichloroethene	156-60-5	18	0.10	3.5		0.78
06192	1,2-Dichloropropane	78-87-5	18	0.15	3.5		0.78
06192	1,3-Dichloropropane	142-28-9	16	0.07	3.5		0.78
06192	2,2-Dichloropropane	594-20-7	15	0.15	3.5		0.78
06192	1,1-Dichloropropene	563-58-6	18	0.11	3.5		0.78
06192	cis-1,3-Dichloropropene	10061-01-5	16	0.14	3.5		0.78
06192	trans-1,3-Dichloropropene	10061-02-6	14	0.15	3.5		0.78
06192	Ethylbenzene	100-41-4	17	0.05	3.5		0.78
06192	Freon 113	76-13-1	22	0.1	3.5		0.78
06192	Hexachlorobutadiene	87-68-3	17	0.12	3.5		0.78
06192	2-Hexanone	591-78-6	70	1.4	7.0		0.78
06192	Isopropylbenzene	98-82-8	17	0.05	3.5		0.78
06192	p-Isopropyltoluene	99-87-6	18	0.1	3.5		0.78
06192	Methyl Tertiary Butyl Ether	1634-04-4	14	0.18	3.5		0.78
06192	4-Methyl-2-pentanone	108-10-1	66	0.34	7.0		0.78
06192	Methylene Chloride	75-09-2	19	0.21	3.5		0.78
06192	n-Propylbenzene	103-65-1	19	0.06	3.5		0.78
06192	Styrene	100-42-5	16	0.09	3.5		0.78
06192	1,1,1,2-Tetrachloroethane	630-20-6	16	0.1	3.5		0.78

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-148-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264847
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	1,1,2,2-Tetrachloroethane	79-34-5	15		0.20	3.5		0.78
06192	Tetrachloroethene	127-18-4	17		0.17	3.5		0.78
06192	Toluene	108-88-3	17		0.07	3.5		0.78
06192	1,2,3-Trichlorobenzene	87-61-6	15		0.12	3.5		0.78
06192	1,2,4-Trichlorobenzene	120-82-1	14		0.16	3.5		0.78
06192	1,1,1-Trichloroethane	71-55-6	16		0.17	3.5		0.78
06192	1,1,2-Trichloroethane	79-00-5	16		0.23	3.5		0.78
06192	Trichloroethene	79-01-6	17		0.13	3.5		0.78
06192	Trichlorofluoromethane	75-69-4	19		0.25	3.5		0.78
06192	1,2,3-Trichloropropane	96-18-4	15		0.29	3.5		0.78
06192	1,2,4-Trimethylbenzene	95-63-6	17		0.35	3.5		0.78
06192	1,3,5-Trimethylbenzene	108-67-8	18		0.09	3.5		0.78
06192	Vinyl Chloride	75-01-4	18		0.17	3.5		0.78
06192	m+p-Xylene	179601-23-1	33		0.15	3.5		0.78
06192	o-Xylene	95-47-6	16		0.15	3.5		0.78
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	110		4.4	13		19.47
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	705		18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,800		19	190		1
04688	Aniline	62-53-3	1,500		190	560		1
04688	Anthracene	120-12-7	1,700		19	190		1
04688	Benzidine	92-87-5	1,900	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,700		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190		1
04688	Benzoic acid	65-85-0	1,700		190	560		1
04688	Benzyl alcohol	100-51-6	1,700		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		19	190		1
04688	Butylbenzylphthalate	85-68-7	2,100		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,600		19	190		1
04688	Carbazole	86-74-8	1,700		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	190		1
04688	4-Chloroaniline	106-47-8	1,100		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,700		19	190		1
04688	2-Chlorophenol	95-57-8	1,700		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		37	190		1
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		19	190		1

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Sample Description: **SL-148-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264847
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Dibenzofuran	132-64-9	1,800	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190		1
04688	Diethylphthalate	84-66-2	1,700	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	37	190		1
04688	3,5-Dimethylphenol	108-68-9	1,800	37	190		1
04688	Dimethylphthalate	131-11-3	1,700	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600	190	560		1
04688	2,4-Dinitrophenol	51-28-5	2,400	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	19	370		1
04688	Fluoranthene	206-44-0	1,600	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	1,600	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,600	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,200	190	560		1
04688	Hexachloroethane	67-72-1	1,500	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190		1
04688	2-Methylphenol	95-48-7	1,700	37	190		1
04688	4-Methylphenol	106-44-5	2,000	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	1,800	19	190		1
04688	3-Nitroaniline	99-09-2	1,600	37	190		1
04688	4-Nitroaniline	100-01-6	1,300	75	190		1
04688	Nitrobenzene	98-95-3	1,800	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,600	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	19	190		1
04688	Pentachlorophenol	87-86-5	1,700	190	560		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,800	19	190		1
04688	Pyrene	129-00-0	2,100	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-148-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264847
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4,5-Trichlorophenol	95-95-4	1,800		37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	33		0.75	1.9		1
10138	Acenaphthylene	208-96-8	33		0.37	1.9		1
10138	Anthracene	120-12-7	35		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	35		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	40		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	43		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	43		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	44		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	38		6.7	20		1
10138	Di-n-butylphthalate	84-74-2	35		6.7	20		1
10138	Chrysene	218-01-9	37		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	38		0.75	1.9		1
10138	Diethylphthalate	84-66-2	30		6.7	20		1
10138	Dimethylphthalate	131-11-3	36		6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	42		6.7	20		1
10138	Fluoranthene	206-44-0	35		0.75	1.9		1
10138	Fluorene	86-73-7	35		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	40		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	34		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	30		0.75	1.9		1
10138	Naphthalene	91-20-3	33		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	35		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	48		6.7	20		1
10138	Phenanthrene	85-01-8	35		0.75	1.9		1
10138	Pyrene	129-00-0	37		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	5.7		0.2	0.9		19.03
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400		67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,400		45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,200		45	130	10000000	1

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Sample Description: SL-148-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264847
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	2,400		45	130	10000000	1
10132	HMX	2691-41-0	2,100		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,200		45	130	10000000	1
10132	Nitroglycerin	55-63-0	51,000		900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	2,200		90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,300		110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,200		90	130	10000000	1
10132	PETN	78-11-5	68,000		900	2,700	10000000	1
10132	RDX	121-82-4	2,200		56	130	10000000	1
10132	Tetryl	479-45-8	2,000		69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,200		45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,500		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	18		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	20		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.78	J	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	1.5		0.45	1.3		1
10199	EFH (C21-C30)	n.a.	2.6		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	3.4		0.45	1.3		1

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Sample Description: SL-148-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264847
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.49	J	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		110	560		1
10501	Isopropanol	67-63-0	2,300		110	560		1
10501	Methanol	67-56-1	2,200		110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	58		5.6	14		1
08283	Ethylene glycol	107-21-1	140		5.6	14		1
08283	Propylene glycol	57-55-6	140		5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5		1.5	1.5		1
10318	o-Terphenyl	84-15-1	1.7	J	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.6		1.6	1.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,600		5.53	22.0		1
07914	Boron	7440-42-8	221		0.978	5.50		1
01650	Calcium	7440-70-2	2,650		6.74	22.0		1
01654	Iron	7439-89-6	21,500		5.18	22.0		1
01656	Lithium	7439-93-2	138		0.24	2.2		1
01657	Magnesium	7439-95-4	4,610		2.79	11.0		1
06958	Manganese	7439-96-5	407		0.0857	0.550		1
10145	Phosphorus	7723-14-0	341		0.615	11.0		1
01662	Potassium	7440-09-7	3,890		19.8	55.0		1
01667	Sodium	7440-23-5	1,200		41.0	110		1
07968	Strontium	7440-24-6	130		0.0681	0.550		1
06969	Tin	7440-31-5	391		1.10	11.0		1
06970	Titanium	7440-32-6	1,430		0.418	1.10		1
10146	Zirconium	7440-67-7	111		0.923	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.739		0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.88		0.0888	0.444		2
06126	Barium	7440-39-3	119		0.120	0.444		2
06127	Beryllium	7440-41-7	1.55		0.0178	0.111		2
06128	Cadmium	7440-43-9	1.21		0.0444	0.111		2

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Sample Description: SL-148-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264847
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06131	Chromium	7440-47-3	29.2	0.133	0.444		2
06132	Cobalt	7440-48-4	62.5	0.0222	0.111		2
06133	Copper	7440-50-8	18.8	0.0733	0.444		2
06135	Lead	7439-92-1	8.79	0.0115	0.222		2
06138	Molybdenum	7439-98-7	11.5	0.0555	0.111		2
06139	Nickel	7440-02-0	23.7	0.111	0.444		2
06141	Selenium	7782-49-2	2.29	0.0444	0.444		2
06142	Silver	7440-22-4	11.3	0.0133	0.111		2
06145	Thallium	7440-28-0	0.784	0.0333	0.111		2
06148	Vanadium	7440-62-2	46.3	0.0244	0.111		2
06149	Zinc	7440-66-6	59.0	0.622	3.33		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.177	0.0031	0.108		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-148-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 21:28	Chelsea B Eastep	0.78
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152AA	04/25/2011 17:03	Jason M Long	19.47
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111124189	04/21/2011 18:16	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111124189	04/21/2011 18:32	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11118SLI026	05/12/2011 00:26	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLK026	05/06/2011 14:31	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 12:16	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11118SLI026	04/29/2011 03:35	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLK026	04/29/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34A	04/22/2011 18:23	Elizabeth J Marin	19.03
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111124189	04/21/2011 18:14	Lois E Hiltz	n.a.

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Sample Description: **SL-148-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264847
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/18/2011 20:36	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170003A	04/29/2011 02:29	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160015A	04/27/2011 19:25	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160015A	04/26/2011 16:40	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170003A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180036A	05/02/2011 15:31	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 17:48	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111150003A	04/26/2011 16:57	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230017A	05/06/2011 05:35	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180036A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230017A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111150003A	04/26/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:17	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 15:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:27	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-148-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264847
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401A	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-148-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264848
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		5.42	21.6		1
07914	Boron	7440-42-8	1.36	J	0.959	5.39		1
01650	Calcium	7440-70-2	2,060		6.61	21.6		1
01654	Iron	7439-89-6	20,500		5.08	21.6		1
01656	Lithium	7439-93-2	24.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,190		2.74	10.8		1
06958	Manganese	7439-96-5	326		0.0841	0.539		1
10145	Phosphorus	7723-14-0	230		0.604	10.8		1
01662	Potassium	7440-09-7	2,330		19.4	53.9		1
01667	Sodium	7440-23-5	120		40.2	108		1
07968	Strontium	7440-24-6	21.8		0.0668	0.539		1
06969	Tin	7440-31-5	2.58	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,160		0.410	1.08		1
10146	Zirconium	7440-67-7	3.30	J	0.905	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.130	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.74		0.0879	0.440		2
06126	Barium	7440-39-3	106		0.119	0.440		2
06127	Beryllium	7440-41-7	0.694		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0502	J	0.0440	0.110		2
06131	Chromium	7440-47-3	18.2		0.132	0.440		2
06132	Cobalt	7440-48-4	6.74		0.0220	0.110		2
06133	Copper	7440-50-8	7.55		0.0725	0.440		2
06135	Lead	7439-92-1	5.21		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.625		0.0550	0.110		2
06139	Nickel	7440-02-0	12.8		0.110	0.440		2
06141	Selenium	7782-49-2	0.0820	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0356	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.258		0.0330	0.110		2
06148	Vanadium	7440-62-2	36.2		0.0242	0.110		2
06149	Zinc	7440-66-6	50.9		0.615	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0066	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-148-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264848
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	416		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.50		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	11.1		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	10.8		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:20	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-148-SA5A-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264848
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13301 SDG#: DE133-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201B	05/07/2011 19:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11125495201B	05/07/2011 19:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11126126201A	05/08/2011 12:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11135243202A	05/16/2011 23:37	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201A	05/03/2011 09:33	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201B	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11126126201A	05/06/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201A	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182101B	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401B	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11135243202A	05/15/2011 09:40	Kenneth A Bell	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11133162401A	05/13/2011 17:52	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401A	05/13/2011 17:52	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-148-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-9.0-10.0

LLI Sample # SW 6264849
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:50

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-2 SDG#: DE133-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.85
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.85
06192	Methylene Chloride	75-09-2	0.79	J	0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-148-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-9.0-10.0

LLI Sample # SW 6264849
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:50

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-2 SDG#: DE133-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.59
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	182		19.2	38.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1

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Sample Description: SL-148-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-9.0-10.0

LLI Sample # SW 6264849
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:50

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-2 SDG#: DE133-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	1-Methylnaphthalene	90-12-0	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1

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Sample Description: SL-148-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-9.0-10.0

LLI Sample # SW 6264849
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:50

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-2 SDG#: DE133-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	9.4	J	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.33
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-9.0-10.0

LLI Sample # SW 6264849
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133-2 SDG#: DE133-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.97	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.72	22.7		1
07914	Boron	7440-42-8	1.01	U	1.01	5.68		1
01650	Calcium	7440-70-2	1,860		6.97	22.7		1
01654	Iron	7439-89-6	19,300		5.35	22.7		1
01656	Lithium	7439-93-2	20.7		0.25	2.3		1
01657	Magnesium	7439-95-4	3,900		2.89	11.4		1

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SL-148-SA5A-SB-9.0-10.0

LLI Sample # SW 6264849
LLI Group # 1243236
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Project Name: SSFL Area IV Collocated Soil Sampling

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133-2 SDG#: DE133-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	141		0.0887	0.568		1
10145	Phosphorus	7723-14-0	138		0.637	11.4		1
01662	Potassium	7440-09-7	1,560		20.5	56.8		1
01667	Sodium	7440-23-5	185		42.4	114		1
07968	Strontium	7440-24-6	19.0		0.0705	0.568		1
06969	Tin	7440-31-5	2.66	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,160		0.432	1.14		1
10146	Zirconium	7440-67-7	1.09	J	0.955	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0689	U	0.0689	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.31		0.0918	0.459		2
06126	Barium	7440-39-3	49.1		0.124	0.459		2
06127	Beryllium	7440-41-7	0.478		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.0459	U	0.0459	0.115		2
06131	Chromium	7440-47-3	12.7		0.138	0.459		2
06132	Cobalt	7440-48-4	2.58		0.0230	0.115		2
06133	Copper	7440-50-8	3.93		0.0758	0.459		2
06135	Lead	7439-92-1	3.40		0.0119	0.230		2
06138	Molybdenum	7439-98-7	0.287		0.0574	0.115		2
06139	Nickel	7440-02-0	6.60		0.115	0.459		2
06141	Selenium	7782-49-2	0.0651	J	0.0459	0.459		2
06142	Silver	7440-22-4	0.0152	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.176		0.0344	0.115		2
06148	Vanadium	7440-62-2	27.4		0.0253	0.115		2
06149	Zinc	7440-66-6	35.5		0.643	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0108	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: SL-148-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-9.0-10.0

LLI Sample # SW 6264849
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:50

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133-2 SDG#: DE133-02

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	457	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.09	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	14.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-148-SA5A-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011	19:59	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152AA	04/25/2011	17:42	Jason M Long	20.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111124189	04/21/2011	18:23	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111124189	04/21/2011	18:32	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111124189	04/21/2011	18:32	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111124189	04/21/2011	18:20	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11118SLI026	05/12/2011	00:43	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLK026	05/06/2011	14:57	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/28/2011	04:21	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11118SLI026	04/29/2011	03:35	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011	16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLK026	04/29/2011	14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34A	04/22/2011	18:59	Elizabeth J Marin	20.33
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111124189	04/21/2011	18:19	Lois E Hiltz	n.a.

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Sample Description: **SL-148-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-9.0-10.0

LLI Sample # SW 6264849
LLI Group # 1243236
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:50

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133-2 SDG#: DE133-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/18/2011 21:19	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170003A	04/29/2011 02:48	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160015A	04/27/2011 19:43	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160015A	04/26/2011 16:40	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170003A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180036A	05/02/2011 15:56	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 18:03	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111150003A	04/26/2011 16:04	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230017A	05/06/2011 06:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180036A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230017A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111150003A	04/26/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 03:30	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 09:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 09:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 09:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 09:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 09:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 09:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 09:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 15:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 09:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 09:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 09:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 09:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 09:23	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-148-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-9.0-10.0

LLI Sample # SW 6264849
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:50

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-2 SDG#: DE133-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 09:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 09:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 09:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201B	05/07/2011 21:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11125495201B	05/07/2011 21:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11126126201A	05/08/2011 13:11	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11135243202A	05/16/2011 23:49	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201A	05/03/2011 09:34	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201B	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11126126201A	05/06/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201A	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182101B	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401B	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11135243202A	05/15/2011 09:40	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401A	05/13/2011 17:52	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP15-SA5A-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5A-QC-042011

LLI Sample # SW 6264850
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:05

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13303 SDG#: DE133-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1	U	6.1	7.3		0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.6		0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6		0.81
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.6		0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6		0.81
06192	Bromoform	75-25-2	0.36	U	0.36	3.6		0.81
06192	Bromomethane	74-83-9	0.23	U	0.23	3.6		0.81
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3		0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6		0.81
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6		0.81
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.6		0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.6		0.81
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.6		0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6		0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6		0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.6		0.81
06192	Chloromethane	74-87-3	0.30	U	0.30	3.6		0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.6		0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.6		0.81
06192	Chlorotrifluoroethene	79-38-9	0.45	U	0.45	4.5		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.6		0.81
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6		0.81
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6		0.81
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.6		0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6		0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6		0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.6		0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6		0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6		0.81
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.6		0.81
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.6		0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6		0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6		0.81
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6		0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6		0.81
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6		0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6		0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.6		0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6		0.81
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.6		0.81
06192	Freon 113	76-13-1	0.10	U	0.10	3.6		0.81
06192	Freon 133a	75-88-7	0.45	U	0.45	4.5		0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.6		0.81
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3		0.81
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6		0.81
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.6		0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6		0.81
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.3		0.81
06192	Methylene Chloride	75-09-2	0.65	J	0.22	3.6		0.81
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6		0.81

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP15-SA5A-QC-042011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5A-QC-042011

LLI Sample # SW 6264850
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:05

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13303 SDG#: DE133-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.6		0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.6		0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6		0.81
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6		0.81
06192	Toluene	108-88-3	0.07	U	0.07	3.6		0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.6		0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6		0.81
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6		0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.6		0.81
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.6		0.81
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6		0.81
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.6		0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6		0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6		0.81
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6		0.81
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.6		0.81
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6		0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.8
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	76.2		18.5	37.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Sample Description: **DUP15-SA5A-QC-042011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5A-QC-042011

LLI Sample # SW 6264850
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:05

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13303 SDG#: DE133-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1

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Sample Description: **DUP15-SA5A-QC-042011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5A-QC-042011

LLI Sample # SW 6264850
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:05

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13303 SDG#: DE133-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.93
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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Sample Description: **DUP15-SA5A-QC-042011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5A-QC-042011

LLI Sample # SW 6264850
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:05

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13303 SDG#: DE133-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	2.1		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,100		5.56	22.1		1
07914	Boron	7440-42-8	1.01	J	0.983	5.53		1
01650	Calcium	7440-70-2	2,070		6.77	22.1		1
01654	Iron	7439-89-6	20,600		5.20	22.1		1
01656	Lithium	7439-93-2	24.3		0.24	2.2		1
01657	Magnesium	7439-95-4	4,200		2.81	11.1		1

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Sample Description: **DUP15-SA5A-QC-042011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5A-QC-042011

LLI Sample # SW 6264850
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:05

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13303 SDG#: DE133-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	355		0.0862	0.553		1
10145	Phosphorus	7723-14-0	239		0.619	11.1		1
01662	Potassium	7440-09-7	2,510		19.9	55.3		1
01667	Sodium	7440-23-5	109	J	41.2	111		1
07968	Strontium	7440-24-6	20.7		0.0685	0.553		1
06969	Tin	7440-31-5	2.66	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,160		0.420	1.11		1
10146	Zirconium	7440-67-7	1.61	J	0.928	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.35		0.0867	0.433		2
06126	Barium	7440-39-3	108		0.117	0.433		2
06127	Beryllium	7440-41-7	0.670		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0645	J	0.0433	0.108		2
06131	Chromium	7440-47-3	17.0		0.130	0.433		2
06132	Cobalt	7440-48-4	6.11		0.0217	0.108		2
06133	Copper	7440-50-8	7.87		0.0715	0.433		2
06135	Lead	7439-92-1	5.26		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.600		0.0542	0.108		2
06139	Nickel	7440-02-0	12.2		0.108	0.433		2
06141	Selenium	7782-49-2	0.124	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0421	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.289		0.0325	0.108		2
06148	Vanadium	7440-62-2	33.7		0.0238	0.108		2
06149	Zinc	7440-66-6	48.4		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0099	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: **DUP15-SA5A-QC-042011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5A-QC-042011

LLI Sample # SW 6264850
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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13303 SDG#: DE133-03FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	463	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.10	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 20:21	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152AA	04/25/2011 18:02	Jason M Long	20.8
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111124189	04/21/2011 18:28	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111124189	04/21/2011 18:32	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111124189	04/21/2011 18:32	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111124189	04/21/2011 18:26	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11118SLI026	05/12/2011 00:59	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLK026	05/06/2011 15:23	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/28/2011 04:54	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11118SLI026	04/29/2011 03:35	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLK026	04/29/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34A	04/22/2011 19:35	Elizabeth J Marin	21.93
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111124189	04/21/2011 18:25	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/18/2011 22:01	James H Place	1

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Sample Description: DUP15-SA5A-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5A-QC-042011

LLI Sample # SW 6264850
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:05

Submitted: 04/21/2011 10:30
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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13303 SDG#: DE133-03FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170003A	04/29/2011 02:58	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160015A	04/27/2011 20:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160015A	04/26/2011 16:40	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170003A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180036A	05/02/2011 16:21	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 18:18	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111170001A	04/27/2011 18:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230017A	05/06/2011 07:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180036A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230017A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111170001A	04/27/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 03:34	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 09:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 09:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 09:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 09:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 09:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 09:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 09:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 09:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 09:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 09:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 09:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 09:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 09:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 09:26	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP15-SA5A-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5A-QC-042011

LLI Sample # SW 6264850
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
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13303 SDG#: DE133-03FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 09:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 09:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201B	05/07/2011 21:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11125495201B	05/07/2011 21:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11126126201A	05/08/2011 13:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11135243202A	05/17/2011 00:02	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201A	05/03/2011 09:35	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201B	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11126126201A	05/06/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201A	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182101B	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401B	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11135243202A	05/15/2011 09:40	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401A	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-042011 Water
SSFL Area IV Collocated Soil Sampling
TB-042011

LLI Sample # WW 6264851
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13304 SDG#: DE133-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-042011 Water
SSFL Area IV Collocated Soil Sampling
TB-042011

LLI Sample # WW 6264851
LLI Group # 1243236
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:00

Submitted: 04/21/2011 10:30
Reported: 05/23/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13304 SDG#: DE133-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111121AA	04/22/2011	14:20	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111121AA	04/22/2011	17:39	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y111121AA	04/22/2011	14:20	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111121AA	04/22/2011	17:39	Sara E Johnson	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11116B20A	04/27/2011	00:01	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11116B20A	04/27/2011	00:01	Laura M Krieger	1

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Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111111AA	Sample number(s): 6264845-6264847,6264849-6264850									
Acetone	6.7	U	6.7	8.0	ug/kg	157	152	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	104	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101	101	79-120	0	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	120	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92	92	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	88	90	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	87	83	32-162	5	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	119	121	46-153	2	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	107	105	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	109	108	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99	97	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	94	92	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	98	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	88	82	37-154	7	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	63	64	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	99	80-120	0	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	93	92	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	101	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101	100	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	91	86	22-131	5	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	92	94	58-120	3	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	91	92	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98	98	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	94	97	80-120	4	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	98	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	98	100	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	98	79-120	0	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	79	77	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	102	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	93	95	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112	110	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99	100	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	102	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	101	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99	99	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	85	84	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98	97	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88	91	80-120	3	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	85	87	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	99	98	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	118	114	61-126	3	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	105	103	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98	97	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	108	113	45-155	5	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99	97	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105	103	75-120	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	87	90	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	92	98	61-134	6	30
Methylene Chloride	0.46	J	0.24	4.0	ug/kg	106	107	76-124	0	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	113	107	77-120	5	30
Styrene	0.10	U	0.10	4.0	ug/kg	93	92	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	93	93	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	105	108	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	97	77-120	3	30
Toluene	0.08	U	0.08	4.0	ug/kg	102	100	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94	97	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	90	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95	94	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	99	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	96	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	100	97	58-133	4	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101	104	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102	101	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	106	102	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93	91	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98	97	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	93	93	80-120	0	30
Batch number: E111121AA	Sample number(s): 6264851									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	106	110	80-123	4	30
Batch number: E111152AA	Sample number(s): 6264845-6264847,6264849-6264850									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	119	70-130	12	30
Batch number: Y111121AA	Sample number(s): 6264851									
Acetone	6	U	6.	20	ug/l	119	118	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	96	94	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	113	111	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	109	106	80-120	3	30
Bromoform	1	U	1.	5	ug/l	97	94	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	102	100	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	108	106	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	92	92	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	96	96	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	94	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	126*	122	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	88	86	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	89	89	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	113	111	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	92	91	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	85	84	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	93	92	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	103	100	80-120	3	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	101	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	109	109	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	99	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	99	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	102	98	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	97	95	79-120	2	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	128	126	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	101	95	74-123	6	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	97	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	92	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	91	89	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	95	94	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	94	93	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	101	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	94	92	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	86	89	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	96	79-120	4	30
Freon 113	2	U	2.	10	ug/l	109	104	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	120	118	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	106	106	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	92	92	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	104	101	77-120	3	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	98	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	93	94	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	94	92	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
Styrene	1	U	1.	5	ug/l	94	92	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	105	104	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	85	86	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	109	105	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	92	90	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	103	103	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	96	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	100	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	94	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	108	103	80-120	5	30
Trichlorofluoromethane	2	U	2.	5	ug/l	130*	125	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	101	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	97	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	99	97	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	86	84	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30

Batch number: 11116SLA026 Sample number(s): 6264845-6264847,6264849-6264850

Acenaphthene	0.67	U	0.67	1.7	ug/kg	97	63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86	60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	89	55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	94	74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	103	58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	113	63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	117	44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	113	54-142
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	101	65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	94	75-137
Chrysene	0.33	U	0.33	1.7	ug/kg	94	73-114
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	111	53-138
Diethylphthalate	6.0	U	6.0	18	ug/kg	79	68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	96	79-121
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	112	67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	93	64-120
Fluorene	0.67	U	0.67	1.7	ug/kg	94	71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	114	56-134

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	122		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	97		56-121		
Batch number: 11118SLI026	Sample number(s): 6264845-6264847,6264849-6264850									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	78		70-130		
Batch number: 11118SLK026	Sample number(s): 6264845-6264847,6264849-6264850									
Acenaphthene	33	U	33.	170	ug/kg	97		76-111		
Acenaphthylene	33	U	33.	170	ug/kg	103		75-122		
Aniline	170 U		170.	500	ug/kg	82		34-94		
Anthracene	33	U	33.	170	ug/kg	94		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	46		15-121		
Benzo(a)anthracene	33	U	33.	170	ug/kg	99		73-112		
Benzo(a)pyrene	33	U	33.	170	ug/kg	89		69-122		
Benzo(b)fluoranthene	33	U	33.	170	ug/kg	93		61-127		
Benzo(g,h,i)perylene	33	U	33.	170	ug/kg	87		65-122		
Benzo(k)fluoranthene	33	U	33.	170	ug/kg	85		67-125		
Benzoic acid	170 U		170.	500	ug/kg	105		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	101		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	94		79-117		
Butylbenzylphthalate	67	U	67.	170	ug/kg	116*		75-115		
Di-n-butylphthalate	67	U	67.	170	ug/kg	90		79-112		
Carbazole	33	U	33.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	33		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	93		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	86		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	104		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Chrysene	33	U	33.	170	ug/kg	97		76-113		
Dibenz(a,h)anthracene	33	U	33.	170	ug/kg	91		70-128		
Dibenzofuran	33	U	33.	170	ug/kg	98		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	93		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	94		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	61		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	100		75-111		
Diethylphthalate	67	U	67.	170	ug/kg	101		76-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	103		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	98		70-130		
Dimethylphthalate	67	U	67.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	96		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	96		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	110		73-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	97		77-111		
bis(2-Ethylhexyl)phthalate	67	U	67.	330	ug/kg	105		75-117		
Fluoranthene	33	U	33.	170	ug/kg	86		78-116		
Fluorene	33	U	33.	170	ug/kg	95		75-116		
Hexachlorobenzene	33	U	33.	170	ug/kg	91		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	89		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	89		68-105		
Indeno(1,2,3-cd)pyrene	33	U	33.	170	ug/kg	93		64-119		
Isophorone	33	U	33.	170	ug/kg	100		69-110		
1-Methylnaphthalene	33	U	33.	170	ug/kg	100		74-105		
2-Methylnaphthalene	33	U	33.	170	ug/kg	94		76-105		
2-Methylphenol	67	U	67.	170	ug/kg	103		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	112		66-117		
Naphthalene	33	U	33.	170	ug/kg	93		73-106		
2-Nitroaniline	33	U	33.	170	ug/kg	99		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	95		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	98		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	98		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	89		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	100		63-107		
N-Nitrosodimethylamine	67	U	67.	170	ug/kg	92		60-106		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	97		67-141		
Di-n-octylphthalate	67	U	67.	170	ug/kg	101		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	91		51-117		
Phenanthrene	33	U	33.	170	ug/kg	93		77-113		
Phenol	33	U	33.	170	ug/kg	105		58-112		
Pyrene	33	U	33.	170	ug/kg	114		75-115		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11112A34A	Sample number(s): 6264845-6264847,6264849-6264850									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69		67-119		
Batch number: 11116B20A	Sample number(s): 6264851									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111200020A	Sample number(s): 6264845-6264847,6264849-6264850									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	110		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	85	83	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	85	82	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	109		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	105		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
HMX	100	U	100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	91		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	103		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	106		73-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	U									
4-Nitrotoluene	80	U	80.	120	ug/kg	102		80-120		
PETN	800		800.	2,400	ug/kg	120		80-120		
	U									
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	92		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	105		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
Batch number: 111170003A	Sample number(s): 6264845-6264847,6264849-6264850									
25a Formaldehyde 8315A	600		600.	1,500	ug/kg	98		80-126		
	U									
Batch number: 111160015A	Sample number(s): 6264845-6264847,6264849-6264850									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	90	94	36-106	5	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	96		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	112		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111180036A	Sample number(s): 6264845-6264847,6264849-6264850									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	92		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	97		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	79		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	64		54-107		
Batch number: 111150003A	Sample number(s): 6264845-6264847,6264849									
Diethylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	101		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Batch number: 111160037A	Sample number(s): 6264845-6264847,6264849-6264850									
Ethanol	100		100.	500	ug/kg	97		71-129		
	U									
Isopropanol	100		100.	500	ug/kg	96		75-125		
	U									
Methanol	100		100.	500	ug/kg	93		68-129		
	U									
Batch number: 111170001A	Sample number(s): 6264850									
Diethylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	98		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Batch number: 111230017A	Sample number(s): 6264845-6264847,6264849-6264850									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	84		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	97		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
Batch number: 111161026001A	Sample number(s): 6264845-6264850									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Antimony	0.0600	U	0.0600	0.200	mg/kg	121		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	102		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	103		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	108		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	104		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	104		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	103		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	106		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		83-110		
Vanadium	0.0532	J	0.0220	0.100	mg/kg	100		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	99		81-112		
Batch number: 111161026001B	Sample number(s): 6264845-6264850									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		83-111		
Batch number: 111161026001C	Sample number(s): 6264845-6264850									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 111161026001D	Sample number(s): 6264845-6264850									
Barium	0.108	U	0.108	0.400	mg/kg	104		81-111		
Batch number: 111165708001	Sample number(s): 6264845-6264850									
Aluminum	5.03	U	5.03	20.0	mg/kg	94		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	93		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	99		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		89-112		
Phosphorus	1.26	J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	102		86-110		
Tin	1.48	J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	100		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		
Batch number: 111165711001	Sample number(s): 6264845-6264850									
Mercury	0.0028	U	0.0028	0.0973	mg/kg	99		88-123		
Batch number: 11122102201A	Sample number(s): 6264845-6264846,6264848-6264850									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11125495201B	Sample number(s): 6264845-6264846,6264848-6264850									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11126126201A	Sample number(s): 6264845-6264846,6264848-6264850									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	110		85-115		
Batch number: 11135243202A	Sample number(s): 6264845-6264846,6264848-6264850									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 11116039401B	Sample number(s): 6264845,6264848-6264850									
18a pH by 9045C						100		95-105		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11116182101B	Sample number(s): 6264845,6264848-6264850								
32a OR Potential					99		98-102		
Batch number: 11133162401A	Sample number(s): 6264845-6264850								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111111AA	Sample number(s): 6264845-6264847,6264849-6264850 UNSPK: 6264845								
Acetone	127	122	15-210	7	30				
Benzene	103	107	55-143	0	30				
Bromobenzene	86	97	43-139	8	30				
Bromochloromethane	109	119	60-137	5	30				
Bromodichloromethane	86	91	53-136	3	30				
Bromoform	76	77	38-124	2	30				
Bromomethane	82	87	42-168	3	30				
2-Butanone	94	92	37-163	5	30				
n-Butylbenzene	86	105	30-146	17	30				
sec-Butylbenzene	91	109	33-157	15	30				
tert-Butylbenzene	83	98	41-152	13	30				
Carbon Tetrachloride	95	98	45-153	1	30				
Chlorobenzene	89	97	49-135	5	30				
Chloroethane	80	89	39-152	7	30				
2-Chloroethyl Vinyl Ether	48	50	32-139	0	30				
Chloroform	96	101	61-142	0	30				
Chloromethane	100	100	51-163	3	30				
2-Chlorotoluene	86	99	42-146	10	30				
4-Chlorotoluene	84	98	39-145	12	30				
1,2-Dibromo-3-chloropropane	70	68	30-139	6	30				
Dibromochloromethane	80	84	51-128	2	30				
1,2-Dibromoethane	85	87	54-129	1	30				
Dibromomethane	85	88	57-130	0	30				
1,2-Dichlorobenzene	80	92	36-133	10	30				
1,3-Dichlorobenzene	82	95	34-134	11	30				
1,4-Dichlorobenzene	82	94	35-136	10	30				
Dichlorodifluoromethane	87	82	26-151	10	30				
1,1-Dichloroethane	100	104	63-142	1	30				
1,2-Dichloroethane	87	90	68-131	1	30				
1,1-Dichloroethene	119	120	61-149	3	30				
cis-1,2-Dichloroethene	95	100	60-136	1	30				
trans-1,2-Dichloroethene	102	105	59-142	1	30				
1,2-Dichloropropane	96	102	62-135	3	30				
1,3-Dichloropropane	87	90	58-129	0	30				
2,2-Dichloropropane	85	88	53-147	1	30				
1,1-Dichloropropene	99	103	54-145	1	30				
cis-1,3-Dichloropropene	80	89	51-131	7	30				
trans-1,3-Dichloropropene	73	79	49-129	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	88	98	44-141	7	30				
Freon 113	131	127	56-156	7	30				
Hexachlorobutadiene	77	98	10-155	19	30				
2-Hexanone	81	80	32-160	5	30				
Isopropylbenzene	86	98	38-144	9	30				
p-Isopropyltoluene	86	104	29-152	15	30				
Methyl Tertiary Butyl Ether	77	79	55-129	1	30				
4-Methyl-2-pentanone	79	76	46-139	8	30				
Methylene Chloride	103	104	61-141	3	30				
n-Propylbenzene	95	111	39-157	11	30				
Styrene	81	91	35-134	8	30				
1,1,1,2-Tetrachloroethane	83	90	52-130	4	30				
1,1,2,2-Tetrachloroethane	89	88	40-152	5	30				
Tetrachloroethene	91	99	42-149	4	30				
Toluene	94	101	50-146	3	30				
1,2,3-Trichlorobenzene	73	85	10-140	12	30				
1,2,4-Trichlorobenzene	67	79	10-136	13	30				
1,1,1-Trichloroethane	91	94	64-142	0	30				
1,1,2-Trichloroethane	88	91	54-139	1	30				
Trichloroethene	95	100	53-144	2	30				
Trichlorofluoromethane	109	109	47-163	4	30				
1,2,3-Trichloropropane	85	85	45-154	4	30				
1,2,4-Trimethylbenzene	84	99	37-149	13	30				
1,3,5-Trimethylbenzene	87	102	38-150	12	30				
Vinyl Chloride	100	102	50-154	2	30				
m+p-Xylene	87	96	44-137	7	30				
o-Xylene	81	91	42-137	8	30				
Batch number: E111152AA	Sample number(s): 6264845-6264847,6264849-6264850 UNSPK: 6264845								
1,4-Dioxane	96	100	70-130	0	30				
Batch number: 11116SLA026	Sample number(s): 6264845-6264847,6264849-6264850 UNSPK: 6264845								
Acenaphthene	84	87	63-105	3	30				
Acenaphthylene	84	89	67-114	6	30				
Anthracene	88	93	60-122	6	30				
Benzo(a)anthracene	92	95	59-128	3	30				
Benzo(a)pyrene	102	108	45-138	6	30				
Benzo(b)fluoranthene	107	116	43-155	8	30				
Benzo(g,h,i)perylene	116	115	33-141	2	30				
Benzo(k)fluoranthene	109	117	42-144	7	30				
Butylbenzylphthalate	99	102	57-173	2	30				
Di-n-butylphthalate	92	95	65-148	3	30				
Chrysene	93	98	48-134	5	30				
Dibenz(a,h)anthracene	111	102	22-133	8	30				
Diethylphthalate	78	80	70-136	2	30				
Dimethylphthalate	94	97	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	108	112	39-167	3	30				
Fluoranthene	90	94	26-166	5	30				
Fluorene	90	93	66-122	3	30				
Indeno(1,2,3-cd)pyrene	114	108	21-143	6	30				
1-Methylnaphthalene	86	91	72-123	5	30				
2-Methylnaphthalene	76	81	64-103	6	30				
Naphthalene	82	88	61-102	7	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodimethylamine	91	93	48-113	3	30				
Di-n-octylphthalate	116	127	40-192	9	30				
Phenanthrene	91	94	12-165	3	30				
Pyrene	96	100	15-153	4	30				
Batch number: 11118SLI026	Sample number(s): 6264845-6264847,6264849-6264850 UNSPK: 6264845								
N-Nitrosodimethylamine	54*	70	70-130	25	30				
Batch number: 11118SLK026	Sample number(s): 6264845-6264847,6264849-6264850 UNSPK: 6264845								
Acenaphthene	97	94	75-115	3	30				
Acenaphthylene	102	97	81-110	5	30				
Aniline	71	79	35-95	11	30				
Anthracene	96	94	75-115	3	30				
Benzidine	0*	21*	35-141	200*	30				
Benzo(a)anthracene	100	97	65-122	4	30				
Benzo(a)pyrene	96	93	57-126	3	30				
Benzo(b)fluoranthene	97	98	59-125	1	30				
Benzo(g,h,i)perylene	93	88	59-127	6	30				
Benzo(k)fluoranthene	98	93	56-132	6	30				
Benzoic acid	90	90	10-173	1	30				
Benzyl alcohol	95	91	67-115	5	30				
4-Bromophenyl-phenylether	95	90	67-129	5	30				
Butylbenzylphthalate	114	112	73-134	3	30				
Di-n-butylphthalate	91	87	67-123	6	30				
Carbazole	95	92	64-120	4	30				
4-Chloro-3-methylphenol	98	96	76-110	3	30				
4-Chloroaniline	49	61	23-95	23	30				
bis(2-Chloroethoxy)methane	94	93	75-104	2	30				
bis(2-Chloroethyl)ether	95	87	60-116	9	30				
bis(2-Chloroisopropyl)ether	86	81	55-142	6	30				
2-Chloronaphthalene	77	91	50-141	17	30				
2-Chlorophenol	97	94	73-121	5	30				
4-Chlorophenyl-phenylether	92	92	80-109	1	30				
Chrysene	99	99	62-128	1	30				
Dibenz(a,h)anthracene	96	89	65-125	9	30				
Dibenzofuran	98	94	71-112	4	30				
1,2-Dichlorobenzene	90	86	66-108	5	30				
1,3-Dichlorobenzene	90	82	63-109	10	30				
1,4-Dichlorobenzene	92	85	70-100	8	30				
3,3'-Dichlorobenzidine	58	62	16-119	7	30				
2,4-Dichlorophenol	98	99	78-117	2	30				
Diethylphthalate	96	91	66-118	6	30				
2,4-Dimethylphenol	97	96	78-110	2	30				
3,5-Dimethylphenol	94	97	70-130	3	30				
Dimethylphthalate	95	93	64-118	3	30				
4,6-Dinitro-2-methylphenol	98	84	24-116	16	30				
2,4-Dinitrophenol	80	65	20-143	23	30				
2,4-Dinitrotoluene	103	98	73-113	5	30				
2,6-Dinitrotoluene	101	94	69-123	8	30				
1,2-Diphenylhydrazine	101	97	71-129	4	30				
bis(2-Ethylhexyl)phthalate	103	104	63-122	1	30				
Fluoranthene	87	84	73-112	4	30				
Fluorene	93	92	77-111	2	30				

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Quality Control Summary

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Reported: 05/23/11 at 10:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorobenzene	93	89	77-114	6	30				
Hexachlorobutadiene	93	88	62-120	5	30				
Hexachlorocyclopentadiene	92	86	10-153	7	30				
Hexachloroethane	81	78	57-109	4	30				
Indeno(1,2,3-cd)pyrene	92	92	61-126	1	30				
Isophorone	95	94	73-102	2	30				
1-Methylnaphthalene	97	95	73-112	3	30				
2-Methylnaphthalene	93	93	76-114	1	30				
2-Methylphenol	98	92	75-111	6	30				
4-Methylphenol	102	105	71-111	4	30				
Naphthalene	92	93	72-116	1	30				
2-Nitroaniline	98	95	67-125	4	30				
3-Nitroaniline	90	87	59-122	5	30				
4-Nitroaniline	67	72	52-112	7	30				
Nitrobenzene	95	97	72-106	2	30				
2-Nitrophenol	97	93	74-115	5	30				
4-Nitrophenol	86	85	54-113	2	30				
N-Nitroso-di-n-propylamine	91	87	60-116	5	30				
N-Nitrosodimethylamine	94	81	47-116	15	30				
N-Nitrosodiphenylamine	96	98	86-145	2	30				
Di-n-octylphthalate	108	106	56-126	3	30				
Pentachlorophenol	90	90	28-127	1	30				
Phenanthrene	95	95	65-125	1	30				
Phenol	99	96	58-126	4	30				
Pyrene	112	111	74-126	1	30				
1,2,4-Trichlorobenzene	96	94	72-115	3	30				
2,4,5-Trichlorophenol	98	94	78-109	4	30				
2,4,6-Trichlorophenol	99	98	77-115	1	30				
Batch number: 11112A34A	Sample number(s): 6264845-6264847,6264849-6264850 UNSPK: 6264845								
9a TPH by EPA 8015B Gas C5-C12	62	61	39-118	7	30				
Batch number: 111200020A	Sample number(s): 6264845-6264847,6264849-6264850 UNSPK: 6264845								
4-Amino-2,6-Dinitrotoluene	107	108	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	106	106	80-137	0	50				
1,3-Dinitrobenzene	105	106	38-166	1	50				
2,4-Dinitrotoluene	100	100	80-131	0	50				
2,6-Dinitrotoluene	103	105	80-127	2	50				
HMX	93	94	63-128	1	50				
Nitrobenzene	103	99	80-125	3	50				
Nitroglycerin	95	95	80-120	1	50				
2-Nitrotoluene	98	99	80-122	1	50				
3-Nitrotoluene	101	103	72-119	2	50				
4-Nitrotoluene	97	99	80-125	2	50				
PETN	119	126*	80-121	6	50				
RDX	96	99	75-129	3	50				
Tetryl	84	88	55-174	4	50				
1,3,5-Trinitrobenzene	100	99	82-126	1	50				
2,4,6-Trinitrotoluene	105	105	82-130	0	50				
Batch number: 111170003A	Sample number(s): 6264845-6264847,6264849-6264850 UNSPK: 6264845								
25a Formaldehyde 8315A	100	98	80-120	2	50				

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Quality Control Summary

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Reported: 05/23/11 at 10:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111160015A	Sample number(s): 6264845-6264847,6264849-6264850 UNSPK: 6264845								
PCB-1016	90	94	29-146	4	50				
PCB-1260	104	108	39-149	4	50				
Batch number: 111180036A	Sample number(s): 6264845-6264847,6264849-6264850 UNSPK: 6264845								
EFH (C12-C14)	85	83	49-123	1	20				
EFH (C15-C20)	103	104	49-123	1	20				
EFH (C21-C30)	110	110	49-123	0	20				
EFH (C30 - C40)	90	78	49-123	9	20				
EFH (C8-C11)	54	52	49-123	2	20				
Batch number: 111150003A	Sample number(s): 6264845-6264847,6264849 UNSPK: 6264845								
Diethylene glycol	82	26*	59-109	104*	20				
Ethylene glycol	84	64	63-107	27*	20				
Propylene glycol	82	63	63-107	26*	20				
Batch number: 111160037A	Sample number(s): 6264845-6264847,6264849-6264850 UNSPK: 6264845								
Ethanol	79	80	48-130	0	20				
Isopropanol	80	80	12-149	0	20				
Methanol	78	79	43-138	2	20				
Batch number: 111170001A	Sample number(s): 6264850 UNSPK: P267467								
Diethylene glycol	88	88	59-109	1	20				
Ethylene glycol	86	86	63-107	1	20				
Propylene glycol	87	84	63-107	4	20				
Batch number: 111230017A	Sample number(s): 6264845-6264847,6264849-6264850 UNSPK: 6264845								
m-Terphenyl	83	81	75-125	4	20				
o-Terphenyl	95	93	75-125	3	20				
p-Terphenyl	89	87	75-125	4	20				
Batch number: 111161026001A	Sample number(s): 6264845-6264850 UNSPK: 6264845 BKG: 6264845								
Antimony	51*	41*	75-125	16	20	0.171 J	0.116 J	38* (1)	20
Arsenic	107	68*	75-125	14	20	3.89	3.34	15	20
Beryllium	100	95	75-125	3	20	0.628	0.619	1	20
Cadmium	110	109	75-125	1	20	0.0385 U	0.0448 J	200* (1)	20
Chromium	101	102	75-125	1	20	15.9	16.2	2	20
Cobalt	107	101	75-125	5	20	5.67	6.01	6	20
Copper	105	105	75-125	0	20	6.43	6.73	5	20
Lead	118	105	75-125	5	20	4.72	4.64	2	20
Nickel	118	102	75-125	7	20	11.0	11.4	4	20
Silver	105	101	75-125	4	20	0.0327 J	0.0318 J	3 (1)	20
Thallium	113	118	75-125	3	20	0.232	0.230	1 (1)	20
Vanadium	130*	96	75-125	8	20	31.8	32.3	1	20
Zinc	117 (2)	77 (2)	75-125	7	20	45.0	45.4	1	20
Batch number: 111161026001B	Sample number(s): 6264845-6264850 UNSPK: 6264845 BKG: 6264845								
Selenium	99	97	75-125	2	20	0.111 J	0.0731 J	41* (1)	20
Batch number: 111161026001C	Sample number(s): 6264845-6264850 UNSPK: 6264845 BKG: 6264845								
Molybdenum	102	98	75-125	4	20	0.557	0.557	0	20
Batch number: 111161026001D	Sample number(s): 6264845-6264850 UNSPK: 6264845 BKG: 6264845								

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Quality Control Summary

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Reported: 05/23/11 at 10:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Barium	166 (2)	95 (2)	75-125	6	20	96.6	94.4	2	20
Batch number: 111165708001	Sample number(s): 6264845-6264850 UNSPK: 6264845 BKG: 6264845								
Aluminum	1832 (2)	2092 (2)	75-125	3	20	16,900	17,500	3	20
Boron	100	100	84-115	1	20	1.71 J	1.21 J	34* (1)	20
Calcium	132 (2)	143 (2)	75-125	2	20	1,800	1,840	2	20
Iron	1186 (2)	1510 (2)	75-125	2	20	17,700	18,300	3	20
Lithium	103	104	82-114	2	20	21.3	21.9	3	20
Magnesium	218 (2)	241 (2)	75-125	1	20	3,640	3,740	3	20
Manganese	171 (2)	189 (2)	75-125	3	20	270	291	7	20
Phosphorus	97	98	75-125	1	20	208	205	1	20
Potassium	131*	139*	75-125	3	20	2,110	2,080	2	20
Sodium	100	99	75-125	0	20	103	107	3 (1)	20
Strontium	98	99	75-115	1	20	18.9	19.4	3	20
Tin	88	88	80-110	1	20	2.30 J	2.30 J	0 (1)	20
Titanium	261 (2)	292 (2)	75-125	3	20	991	1,030	4	20
Zirconium	98	99	75-125	2	20	1.51 J	2.94 J	64* (1)	20
Batch number: 111165711001	Sample number(s): 6264845-6264850 UNSPK: 6264845 BKG: 6264845								
Mercury	88	88	65-135	3	20	0.0175 J	0.0059 J	99* (1)	20
Batch number: 11122102201A	Sample number(s): 6264845-6264846,6264848-6264850 UNSPK: 6264845 BKG: 6264845								
17a Cyanide by 9012B	99		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11125495201B	Sample number(s): 6264845-6264846,6264848-6264850 UNSPK: 6264845 BKG: 6264845								
11a Anions by 300.0 - Fluoride	49*		80-120			1.3	1.6	23* (1)	20
11a Anions by 300.0 - Nitrate	97		80-120			1.1 J	1.7	47* (1)	20
Batch number: 11126126201A	Sample number(s): 6264845-6264846,6264848-6264850 UNSPK: 6264845 BKG: 6264845								
7a Perchlorate EPA 314.0	116		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11135243202A	Sample number(s): 6264845-6264846,6264848-6264850 UNSPK: 6264845 BKG: 6264845								
3a Cr VI by EPA 7199	86		75-125			0.35 J	0.54 J	44* (1)	20
Batch number: 11116039401B	Sample number(s): 6264845,6264848-6264850 BKG: 6264845								
18a pH by 9045C						6.49	6.50	0	1
Batch number: 11116182101B	Sample number(s): 6264845,6264848-6264850 BKG: 6264845								
32a OR Potential						415	416	0	6
Batch number: 11133162401A	Sample number(s): 6264845-6264850 BKG: 6264845								
28a Moisture Content by 160.3						10.8	11.1	2	20
Moisture Content by 160.3						10.8	11.1	2	20
Moisture Content by 160.3						10.8	11.1	2	20

Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111111AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6264845	99	98	101	90
6264846	99	103	103	99
6264847	98	98	103	98
6264849	99	96	100	87
6264850	98	97	102	88
Blank	101	104	100	89
LCS	98	98	104	97
LCSD	98	99	104	97
MS	99	103	103	99
MSD	98	98	103	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111121AA

	Toluene-d8
6264851	99
Blank	100
LCS	99
LCSD	99
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111152AA

	Toluene-d8
6264845	97
6264846	97
6264847	97
6264849	97
6264850	97
Blank	97
LCS	97
LCSD	97
MS	97
MSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111121AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6264851	112	101	99	99
Blank	109	102	99	98
LCS	114	104	97	99
LCSD	112	102	97	99

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Surrogate Quality Control

Limits: 86-118 80-120 88-110 86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11116SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6264845	88	83	88
6264846	91	84	89
6264847	92	85	88
6264849	86	80	88
6264850	87	82	88
Blank	85	86	94
LCS	91	84	87
MS	91	84	89
MSD	92	85	88
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11118SLI026

	N-Nitrosodimethylamine-d6
6264845	108
6264846	112
6264847	113
6264849	131
6264850	116
Blank	81
LCS	87
MS	112
MSD	113
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11118SLK026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6264845	87	89	90	83	88	88
6264846	93	97	84	90	89	95
6264847	90	91	82	88	88	93
6264849	94	91	83	80	85	89
6264850	91	93	90	86	87	94
Blank	90	89	92	85	86	84
LCS	99	97	94	93	89	98
MS	93	97	84	90	89	95
MSD	90	91	82	88	88	93
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11112A34A

	Trifluorotoluene-F
6264845	74
6264846	79

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Surrogate Quality Control

6264847	73
6264849	75
6264850	77
Blank	91
LCS	89
MS	79
MSD	73
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11116B20A

	Trifluorotoluene-F
6264851	72
Blank	75
LCS	114
LCSD	109
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111160015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6264845	97	101
6264846	99	113
6264847	101	103
6264849	103	111
6264850	100	105
Blank	105	109
LCS	106	109
LCSD	107	105
MS	99	113
MSD	101	103
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111170003A

	Butyraldehyde
6264845	108
6264846	99
6264847	96
6264849	106
6264850	104
Blank	101
LCS	99
MS	99
MSD	96
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111200020A

	2-Nitro-m-xylene

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Surrogate Quality Control

6264845	120
6264846	147*
6264847	128
6264849	116
6264850	130
Blank	87
LCS	123
LCSD	122
MS	147*
MSD	128
Limits:	80-146

Analysis Name: 21a Glycols by 8015B
Batch number: 111150003A
Tetramethylene glycol

6264845	83
6264846	92
6264847	59
6264849	74
Blank	101
LCS	103
MS	92
MSD	59
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111160037A
Acetone

6264845	79
6264846	80
6264847	78
6264849	76
6264850	79
Blank	96
LCS	96
MS	80
MSD	78
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111170001A
Tetramethylene glycol

6264850	86
Blank	101
LCS	109
MS	91
MSD	88
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243236
Reported: 05/23/11 at 10:10 PM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111180036A

	Chlorobenzene	Orthoterphenyl
6264845	59	80
6264846	70	96
6264847	69	92
6264849	65	89
6264850	57	80
Blank	78	95
LCS	79	97
MS	70	96
MSD	69	92
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111230017A

	n-Triacontane-d62
6264845	75
6264846	78
6264847	75
6264849	79
6264850	74
Blank	78
LCS	79
MS	78
MSD	75
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1243236 Sample# 6264845-51

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: AGrzanek

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tephenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-148-SA5A-SB-4.5MS	04.20.11	1059	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-148-SA5A-SB-4.0-5.0MS	04.20.11	1100	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-148-SA5A-SB-9.5	04.20.11	1510	SOIL	NONE	5-Encores										X	X	X										
SL-148-SA5A-SB-9.0-10.0	04.20.11	1150	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
DUP15-SA5A-QC-042011	04.20.11	1105	SOIL	NONE	5-Encores										X	X	X										
DUP15-SA5A-QC-042011	04.20.11	1105	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-042011	04.20.11	0800	WATER	NONE	4-40 mL vials										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/20/2011 / 1700	4/21/11 1030	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1442 0225	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/23/2011
Group Number: 1243643
SDG: DE135
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-007-SA8N-SB-4.0-5.0 Soil	6267467
SL-007-SA8N-SB-9.0-10.0 Soil	6267468
SL-010-SA8N-SB-4.0-5.0 Soil	6267469
SL-010-SA8N-SB-9.0-10.0 Soil	6267470
SL-011-SA8N-SB-4.0-5.0 Soil	6267471
SL-011-SA8N-SB-9.0-10.0 Soil	6267472
SL-064-SA5A-SB-3.0-4.0 Soil	6267473
SL-064-SA5A-SB-3.0-4.0MS Soil	6267474
SL-064-SA5A-SB-3.0-4.0MSD Soil	6267475
SL-064-SA5A-SB-3.0-4.0DUP Soil	6267476
SL-166-SA5A-SS-0.0-0.5 Soil	6267477
SL-253-SA5A-SB-4.0-5.0 Soil	6267478
SL-253-SA5A-SB-8.0-9.0 Soil	6267479
DUP16-SA5A-QC-042211 Soil	6267480
TB-042211 Water	6267481

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267467
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13501 SDG#: DE135-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1	U	6.1	7.2		0.78
06192	Benzene	71-43-2	0.09	U	0.09	3.6		0.78
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6		0.78
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.6		0.78
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6		0.78
06192	Bromoform	75-25-2	0.36	U	0.36	3.6		0.78
06192	Bromomethane	74-83-9	0.23	U	0.23	3.6		0.78
06192	2-Butanone	78-93-3	1.1	U	1.1	7.2		0.78
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6		0.78
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6		0.78
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.6		0.78
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.6		0.78
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.6		0.78
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6		0.78
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6		0.78
06192	Chloroform	67-66-3	0.11	U	0.11	3.6		0.78
06192	Chloromethane	74-87-3	0.30	U	0.30	3.6		0.78
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.6		0.78
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.6		0.78
06192	Chlorotrifluoroethene	79-38-9	0.45	U	0.45	4.5		0.78
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.63	U	0.63	3.6		0.78
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6		0.78
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6		0.78
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.6		0.78
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6		0.78
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6		0.78
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.6		0.78
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6		0.78
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6		0.78
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.6		0.78
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.6		0.78
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6		0.78
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6		0.78
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6		0.78
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6		0.78
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6		0.78
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6		0.78
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.6		0.78
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6		0.78
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.6		0.78
06192	Freon 113	76-13-1	0.1	U	0.1	3.6		0.78
06192	Freon 133a	75-88-7	0.45	U	0.45	4.5		0.78
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.6		0.78
06192	2-Hexanone	591-78-6	1.4	U	1.4	7.2		0.78
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6		0.78
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.6		0.78
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6		0.78
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.2		0.78
06192	Methylene Chloride	75-09-2	0.58	J	0.22	3.6		0.78
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6		0.78

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-007-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267467
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13501 SDG#: DE135-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.6		0.78
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.6		0.78
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6		0.78
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6		0.78
06192	Toluene	108-88-3	0.07	U	0.07	3.6		0.78
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.6		0.78
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6		0.78
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6		0.78
06192	1,1,2-Trichloroethane	79-00-5	0.24	U	0.24	3.6		0.78
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.6		0.78
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6		0.78
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.6		0.78
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6		0.78
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6		0.78
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6		0.78
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.6		0.78
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6		0.78
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		19.94
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-007-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267467
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13501 SDG#: DE135-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

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Sample Description: **SL-007-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267467
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13501 SDG#: DE135-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,300		5.68	22.6		1
07914	Boron	7440-42-8	14.0		1.00	5.64		1
01650	Calcium	7440-70-2	20,100		6.92	22.6		1
01654	Iron	7439-89-6	28,400		5.32	22.6		1
01656	Lithium	7439-93-2	24.5		0.25	2.3		1
01657	Magnesium	7439-95-4	6,210		2.87	11.3		1
06958	Manganese	7439-96-5	362		0.0881	0.564		1
10145	Phosphorus	7723-14-0	309		0.632	11.3		1
01662	Potassium	7440-09-7	2,920		20.3	56.4		1
01667	Sodium	7440-23-5	91.2	J	42.1	113		1
07968	Strontium	7440-24-6	33.6		0.0700	0.564		1
06969	Tin	7440-31-5	3.02	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,280		0.429	1.13		1
10146	Zirconium	7440-67-7	3.10	J	0.948	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0677	U	0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.81		0.0903	0.452		2
06126	Barium	7440-39-3	107		0.122	0.452		2

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Sample Description: **SL-007-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267467
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13501 SDG#: DE135-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.800	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.210	0.0452	0.113		2
06131	Chromium	7440-47-3	28.1	0.135	0.452		2
06132	Cobalt	7440-48-4	10.4	0.0226	0.113		2
06133	Copper	7440-50-8	14.4	0.0745	0.452		2
06135	Lead	7439-92-1	7.94	0.0117	0.226		2
06138	Molybdenum	7439-98-7	0.385	0.0564	0.113		2
06139	Nickel	7440-02-0	18.4	0.113	0.452		2
06141	Selenium	7782-49-2	0.0767 J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0333 J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.302	0.0339	0.113		2
06148	Vanadium	7440-62-2	51.3	0.0248	0.113		2
06149	Zinc	7440-66-6	64.4	0.632	3.39		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0224 J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	34.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	429	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.00	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-007-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267467
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13501 SDG#: DE135-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-007-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 05:58	Angela D Sneeringer	0.78
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 19:22	Jason M Long	19.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:03	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 12:48	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 12:37	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 19:55	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111170001A	04/27/2011 20:27	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111170001A	04/27/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 10:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2

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Sample Description: **SL-007-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267467
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13501 SDG#: DE135-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 16:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 10:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 01:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 00:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11132243201A	05/15/2011 13:44	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267468
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13502 SDG#: DE135-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-007-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267468
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13502 SDG#: DE135-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1

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Sample Description: **SL-007-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267468
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13502 SDG#: DE135-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,900		5.75	22.9		1
07914	Boron	7440-42-8	13.9		1.02	5.72		1
01650	Calcium	7440-70-2	14,100		7.01	22.9		1
01654	Iron	7439-89-6	29,800		5.38	22.9		1
01656	Lithium	7439-93-2	25.8		0.25	2.3		1
01657	Magnesium	7439-95-4	6,720		2.90	11.4		1
06958	Manganese	7439-96-5	505		0.0892	0.572		1
10145	Phosphorus	7723-14-0	296		0.640	11.4		1
01662	Potassium	7440-09-7	2,760		20.6	57.2		1
01667	Sodium	7440-23-5	135		42.6	114		1
07968	Strontium	7440-24-6	31.1		0.0709	0.572		1
06969	Tin	7440-31-5	3.15	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,330		0.434	1.14		1
10146	Zirconium	7440-67-7	3.35	J	0.960	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0686	U	0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.72		0.0915	0.457		2
06126	Barium	7440-39-3	93.2		0.123	0.457		2
06127	Beryllium	7440-41-7	0.821		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.259		0.0457	0.114		2
06131	Chromium	7440-47-3	27.4		0.137	0.457		2
06132	Cobalt	7440-48-4	10.4		0.0229	0.114		2
06133	Copper	7440-50-8	14.4		0.0755	0.457		2
06135	Lead	7439-92-1	7.84		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.412		0.0572	0.114		2
06139	Nickel	7440-02-0	21.1		0.114	0.457		2
06141	Selenium	7782-49-2	0.0562	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.0318	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.317		0.0343	0.114		2
06148	Vanadium	7440-62-2	49.4		0.0252	0.114		2
06149	Zinc	7440-66-6	61.7		0.640	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0327	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: **SL-007-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267468
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13502 SDG#: DE135-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	431		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified	**Std. Units**			**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.19		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 13:13	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 13:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 20:14	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111190001A	04/29/2011 18:10	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111190001A	04/29/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267468
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13502 SDG#: DE135-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 10:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 10:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 10:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 01:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 00:50	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 13:50	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.87
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.87
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.87
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.87
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.87
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.87
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.87
06192	Methylene Chloride	75-09-2	0.52	J	0.25	4.1		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.87

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Sample Description: **SL-010-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		20.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	88.8		19.3	38.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.28
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.86	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	27,600		5.72	22.7		1
07914	Boron	7440-42-8	13.1		1.01	5.68		1
01650	Calcium	7440-70-2	15,400		6.97	22.7		1
01654	Iron	7439-89-6	30,200		5.35	22.7		1
01656	Lithium	7439-93-2	23.1		0.25	2.3		1
01657	Magnesium	7439-95-4	6,490		2.89	11.4		1

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Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	339		0.0887	0.568		1
10145	Phosphorus	7723-14-0	295		0.637	11.4		1
01662	Potassium	7440-09-7	2,860		20.5	56.8		1
01667	Sodium	7440-23-5	230		42.4	114		1
07968	Strontium	7440-24-6	34.5		0.0705	0.568		1
06969	Tin	7440-31-5	3.13	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,230		0.432	1.14		1
10146	Zirconium	7440-67-7	2.72	J	0.955	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0918	J	0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.35		0.0937	0.468		2
06126	Barium	7440-39-3	113		0.126	0.468		2
06127	Beryllium	7440-41-7	0.879		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.196		0.0468	0.117		2
06131	Chromium	7440-47-3	31.9		0.141	0.468		2
06132	Cobalt	7440-48-4	11.9		0.0234	0.117		2
06133	Copper	7440-50-8	15.7		0.0773	0.468		2
06135	Lead	7439-92-1	9.40		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.344		0.0585	0.117		2
06139	Nickel	7440-02-0	20.7		0.117	0.468		2
06141	Selenium	7782-49-2	0.0661	J	0.0468	0.468		2
06142	Silver	7440-22-4	0.0304	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.338		0.0351	0.117		2
06148	Vanadium	7440-62-2	57.0		0.0258	0.117		2
06149	Zinc	7440-66-6	65.6		0.656	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0174	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.1		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: **SL-010-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	428	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.13	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-010-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 06:21	Angela D Sneeringer	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 19:42	Jason M Long	20.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:07	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 15:30	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 13:37	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 13:41	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34B	04/25/2011 11:14	Carrie E Miller	22.28

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Sample Description: **SL-010-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
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13503 SDG#: DE135-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:07	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 11:21	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 05:34	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 20:32	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 09:13	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111180032A	04/28/2011 18:08	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111190001A	04/29/2011 18:27	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/05/2011 00:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111180032A	04/28/2011 15:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111190001A	04/29/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 16:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2

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Sample Description: **SL-010-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 01:54	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621202A	05/10/2011 01:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 01:34	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 14:03	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201B	05/03/2011 09:52	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201B	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.83
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.83
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.83
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.83
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.83
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.83
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.83
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.83
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.83
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.83
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.83
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.83
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9		0.83
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.83
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.83
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.83
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.83
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.83
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.83
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.83
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.83
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.83
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.83
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.83
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.83
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.83
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.83
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.83
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.83
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.83
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.83
06192	Methylene Chloride	75-09-2	0.43	J	0.24	3.9		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.83

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Sample Description: SL-010-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.83
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.83
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.83
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.83
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.83
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.83
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	58.6		19.7	39.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-010-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1

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Sample Description: SL-010-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.9
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: **SL-010-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
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13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	1.8		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		5.89	23.4		1
07914	Boron	7440-42-8	13.5		1.04	5.86		1
01650	Calcium	7440-70-2	13,900		7.18	23.4		1
01654	Iron	7439-89-6	29,800		5.52	23.4		1
01656	Lithium	7439-93-2	20.8		0.26	2.3		1
01657	Magnesium	7439-95-4	6,360		2.98	11.7		1

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SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
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Project Name: SSFL Area IV Collocated Soil Sampling

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13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	424		0.0914	0.586		1
10145	Phosphorus	7723-14-0	405		0.656	11.7		1
01662	Potassium	7440-09-7	3,080		21.1	58.6		1
01667	Sodium	7440-23-5	169		43.7	117		1
07968	Strontium	7440-24-6	32.7		0.0726	0.586		1
06969	Tin	7440-31-5	3.31	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,390		0.445	1.17		1
10146	Zirconium	7440-67-7	3.23	J	0.984	5.86		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0809	J	0.0696	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.63		0.0928	0.464		2
06126	Barium	7440-39-3	146		0.125	0.464		2
06127	Beryllium	7440-41-7	0.940		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.212		0.0464	0.116		2
06131	Chromium	7440-47-3	29.8		0.139	0.464		2
06132	Cobalt	7440-48-4	10.9		0.0232	0.116		2
06133	Copper	7440-50-8	17.4		0.0766	0.464		2
06135	Lead	7439-92-1	8.42		0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.346		0.0580	0.116		2
06139	Nickel	7440-02-0	23.5		0.116	0.464		2
06141	Selenium	7782-49-2	0.0669	J	0.0464	0.464		2
06142	Silver	7440-22-4	0.0943	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.341		0.0348	0.116		2
06148	Vanadium	7440-62-2	54.3		0.0255	0.116		2
06149	Zinc	7440-66-6	76.2		0.650	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0225	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.5		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-010-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	434	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.07	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-010-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 06:43	Angela D Sneeringer	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 20:02	Jason M Long	20.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:10	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 15:47	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 14:02	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 14:14	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34B	04/25/2011 11:50	Carrie E Miller	20.9

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Sample Description: **SL-010-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:09	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 12:03	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 05:44	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 20:51	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 09:38	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111180032A	04/28/2011 18:23	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111190001A	04/29/2011 18:45	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/05/2011 02:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111180032A	04/28/2011 15:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111190001A	04/29/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2

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Sample Description: SL-010-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 02:08	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621202A	05/10/2011 02:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 01:56	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 14:15	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201B	05/03/2011 09:53	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201B	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-011-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267471
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13505 SDG#: DE135-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.1		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.86
06192	Bromoform	75-25-2	0.40	U	0.40	4.1		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.86
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.86
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.86
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.86
06192	Methylene Chloride	75-09-2	0.51	J	0.24	4.1		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.86

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267471
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13505 SDG#: DE135-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.86
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.1		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.1		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.83
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	62.9		19.7	39.4		1

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-011-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267471
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13505 SDG#: DE135-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1

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Sample Description: **SL-011-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267471
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13505 SDG#: DE135-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.1	J	7.1	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.55
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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Sample Description: SL-011-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267471
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13505 SDG#: DE135-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.86	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1

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Sample Description: SL-011-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267471
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13505 SDG#: DE135-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,200		5.84	23.2		1
07914	Boron	7440-42-8	13.6		1.03	5.80		1
01650	Calcium	7440-70-2	13,400		7.11	23.2		1
01654	Iron	7439-89-6	31,500		27.3	116		5
01656	Lithium	7439-93-2	25.9		0.26	2.3		1
01657	Magnesium	7439-95-4	6,200		2.95	11.6		1
06958	Manganese	7439-96-5	423		0.0905	0.580		1
10145	Phosphorus	7723-14-0	218		0.650	11.6		1
01662	Potassium	7440-09-7	3,190		20.9	58.0		1
01667	Sodium	7440-23-5	277		43.3	116		1
07968	Strontium	7440-24-6	32.5		0.0719	0.580		1
06969	Tin	7440-31-5	3.26	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,390		0.441	1.16		1
10146	Zirconium	7440-67-7	2.78	J	0.975	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0689	U	0.0689	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.90		0.0919	0.460		2
06126	Barium	7440-39-3	169		0.124	0.460		2
06127	Beryllium	7440-41-7	1.07		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.224		0.0460	0.115		2
06131	Chromium	7440-47-3	32.8		0.138	0.460		2
06132	Cobalt	7440-48-4	14.7		0.0230	0.115		2
06133	Copper	7440-50-8	14.5		0.0758	0.460		2
06135	Lead	7439-92-1	11.1		0.0119	0.230		2
06138	Molybdenum	7439-98-7	0.550		0.0574	0.115		2
06139	Nickel	7440-02-0	25.7		0.115	0.460		2
06141	Selenium	7782-49-2	0.0853	J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0636	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.382		0.0345	0.115		2
06148	Vanadium	7440-62-2	62.0		0.0253	0.115		2
06149	Zinc	7440-66-6	74.6		0.643	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0140	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.1		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1

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Sample Description: SL-011-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267471
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13505 SDG#: DE135-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	442		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-011-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 07:06	Angela D Sneeringer	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 20:22	Jason M Long	20.83
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:13	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:13	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 16:04	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 14:27	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 14:46	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-011-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267471
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13505 SDG#: DE135-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34B	04/25/2011 12:27	Carrie E Miller	21.55
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:13	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 12:46	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 05:53	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 21:09	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 10:03	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111180032A	04/28/2011 19:08	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111190001A	04/29/2011 19:03	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/05/2011 02:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111180032A	04/28/2011 15:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111190001A	04/29/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 09:40	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2

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Sample Description: **SL-011-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267471
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13505 SDG#: DE135-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 02:23	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621202A	05/10/2011 02:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 02:18	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 14:28	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201B	05/03/2011 09:54	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201B	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.89
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.89
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.89
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.89
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.89
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.89
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.89
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.89
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.89
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.89
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.89
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.89
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.89
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.89
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.89
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.89
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.89
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.89
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.89
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.89
06192	Methylene Chloride	75-09-2	0.46	J	0.25	4.2		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.89

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Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.89
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.89
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		22.94
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	98.2		19.5	38.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1

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Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.04
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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Sample Description: **SL-011-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.53	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,300		5.90	23.4		1
07914	Boron	7440-42-8	12.4		1.04	5.86		1
01650	Calcium	7440-70-2	14,300		7.19	23.4		1
01654	Iron	7439-89-6	29,600		5.52	23.4		1
01656	Lithium	7439-93-2	21.8		0.26	2.3		1
01657	Magnesium	7439-95-4	6,000		2.98	11.7		1

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Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	415		0.0914	0.586		1
10145	Phosphorus	7723-14-0	207		0.657	11.7		1
01662	Potassium	7440-09-7	2,300		21.1	58.6		1
01667	Sodium	7440-23-5	262		43.7	117		1
07968	Strontium	7440-24-6	31.4		0.0727	0.586		1
06969	Tin	7440-31-5	3.30	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,280		0.445	1.17		1
10146	Zirconium	7440-67-7	2.90	J	0.985	5.86		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0703	U	0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.06		0.0938	0.469		2
06126	Barium	7440-39-3	125		0.127	0.469		2
06127	Beryllium	7440-41-7	0.964		0.0188	0.117		2
06128	Cadmium	7440-43-9	0.152		0.0469	0.117		2
06131	Chromium	7440-47-3	32.3		0.141	0.469		2
06132	Cobalt	7440-48-4	13.0		0.0234	0.117		2
06133	Copper	7440-50-8	15.9		0.0774	0.469		2
06135	Lead	7439-92-1	9.97		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.352		0.0586	0.117		2
06139	Nickel	7440-02-0	24.9		0.117	0.469		2
06141	Selenium	7782-49-2	0.0713	J	0.0469	0.469		2
06142	Silver	7440-22-4	0.0551	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.307		0.0352	0.117		2
06148	Vanadium	7440-62-2	56.8		0.0258	0.117		2
06149	Zinc	7440-66-6	69.2		0.657	3.52		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0216	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.4		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	380	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.02	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-011-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 07:28	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 20:42	Jason M Long	22.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:15	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 16:21	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 14:51	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 15:18	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34B	04/25/2011 13:03	Carrie E Miller	21.04

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13506 SDG#: DE135-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:15	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 13:28	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 06:03	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 21:28	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 10:28	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111180032A	04/28/2011 19:23	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111190001A	04/29/2011 19:20	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/05/2011 03:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111180032A	04/28/2011 15:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111190001A	04/29/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 02:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621202A	05/10/2011 02:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 02:40	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 14:40	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201B	05/03/2011 09:55	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201B	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.5		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.5		0.83
06192	Methylene Chloride	75-09-2	0.45	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.83

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.42
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,900		5.58	22.2		1
07914	Boron	7440-42-8	8.23		0.988	5.55		1
01650	Calcium	7440-70-2	2,920		6.61	21.6		1
01654	Iron	7439-89-6	24,900		5.23	22.2		1
01656	Lithium	7439-93-2	32.8		0.24	2.2		1
01657	Magnesium	7439-95-4	5,460		2.82	11.1		1
06958	Manganese	7439-96-5	292		0.0866	0.555		1
10145	Phosphorus	7723-14-0	309		0.622	11.1		1
01662	Potassium	7440-09-7	2,660		20.0	55.5		1
01667	Sodium	7440-23-5	93.2	J	41.4	111		1
07968	Strontium	7440-24-6	18.3		0.0688	0.555		1
06969	Tin	7440-31-5	3.50	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,170		0.422	1.11		1
10146	Zirconium	7440-67-7	0.932	U	0.932	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0659	U	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.42		0.0879	0.440		2
06126	Barium	7440-39-3	102		0.119	0.440		2
06127	Beryllium	7440-41-7	0.865		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0937	J	0.0440	0.110		2
06131	Chromium	7440-47-3	23.6		0.132	0.440		2
06132	Cobalt	7440-48-4	8.10		0.0220	0.110		2
06133	Copper	7440-50-8	11.4		0.0725	0.440		2
06135	Lead	7439-92-1	7.52		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.532		0.0550	0.110		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	18.5		0.110	0.440		2
06141	Selenium		7782-49-2	0.134	J	0.0440	0.440		2
06142	Silver		7440-22-4	0.0404	J	0.0132	0.110		2
06145	Thallium		7440-28-0	0.316		0.0330	0.110		2
06148	Vanadium		7440-62-2	41.7		0.0242	0.110		2
06149	Zinc		7440-66-6	63.8		0.615	3.30		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0261	J	0.0031	0.107		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.3		0.90	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.1	U	10.1	33.6		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	392		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.86		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	10.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-064-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-064-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 02:59	Angela D Sneeringer	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 21:02	Jason M Long	20.42
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:19	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:19	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 11:35	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 11:00	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 21:46	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	2	111255708007	05/06/2011 13:33	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 10:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 10:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 10:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-064-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 00:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/09/2011 23:22	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 14:53	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	130	6.4	7.7		0.86
06192	Benzene	71-43-2	23	0.1	3.8		0.86
06192	Bromobenzene	108-86-1	22	0.12	3.8		0.86
06192	Bromochloromethane	74-97-5	24	0.32	3.8		0.86
06192	Bromodichloromethane	75-27-4	20	0.08	3.8		0.86
06192	Bromoform	75-25-2	17	0.38	3.8		0.86
06192	Bromomethane	74-83-9	21	0.24	3.8		0.86
06192	2-Butanone	78-93-3	120	1.2	7.7		0.86
06192	n-Butylbenzene	104-51-8	25	0.12	3.8		0.86
06192	sec-Butylbenzene	135-98-8	25	0.06	3.8		0.86
06192	tert-Butylbenzene	98-06-6	22	0.15	3.8		0.86
06192	Carbon Tetrachloride	56-23-5	22	0.13	3.8		0.86
06192	Chlorobenzene	108-90-7	21	0.11	3.8		0.86
06192	Chloroethane	75-00-3	22	0.12	3.8		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	9.8	0.29	3.8		0.86
06192	Chloroform	67-66-3	22	0.12	3.8		0.86
06192	Chloromethane	74-87-3	21	0.32	3.8		0.86
06192	2-Chlorotoluene	95-49-8	23	0.13	3.8		0.86
06192	4-Chlorotoluene	106-43-4	23	0.13	3.8		0.86
06192	Chlorotrifluoroethene	79-38-9	17	0.48	4.8		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	15	0.67	3.8		0.86
06192	Dibromochloromethane	124-48-1	19	0.19	3.8		0.86
06192	1,2-Dibromoethane	106-93-4	19	0.16	3.8		0.86
06192	Dibromomethane	74-95-3	19	0.23	3.8		0.86
06192	1,2-Dichlorobenzene	95-50-1	21	0.09	3.8		0.86
06192	1,3-Dichlorobenzene	541-73-1	22	0.12	3.8		0.86
06192	1,4-Dichlorobenzene	106-46-7	21	0.15	3.8		0.86
06192	Dichlorodifluoromethane	75-71-8	18	0.12	3.8		0.86
06192	1,1-Dichloroethane	75-34-3	22	0.1	3.8		0.86
06192	1,2-Dichloroethane	107-06-2	19	0.14	3.8		0.86
06192	1,1-Dichloroethene	75-35-4	24	0.37	3.8		0.86
06192	cis-1,2-Dichloroethene	156-59-2	22	0.18	3.8		0.86
06192	trans-1,2-Dichloroethene	156-60-5	22	0.12	3.8		0.86
06192	1,2-Dichloropropane	78-87-5	22	0.16	3.8		0.86
06192	1,3-Dichloropropane	142-28-9	20	0.08	3.8		0.86
06192	2,2-Dichloropropane	594-20-7	20	0.16	3.8		0.86
06192	1,1-Dichloropropene	563-58-6	22	0.12	3.8		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	19	0.15	3.8		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	18	0.16	3.8		0.86
06192	Ethylbenzene	100-41-4	22	0.06	3.8		0.86
06192	Freon 113	76-13-1	26	0.11	3.8		0.86
06192	Freon 133a	75-88-7	22	0.48	4.8		0.86
06192	Hexachlorobutadiene	87-68-3	20	0.13	3.8		0.86
06192	2-Hexanone	591-78-6	79	1.5	7.7		0.86
06192	Isopropylbenzene	98-82-8	22	0.06	3.8		0.86
06192	p-Isopropyltoluene	99-87-6	24	0.11	3.8		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	17	0.20	3.8		0.86
06192	4-Methyl-2-pentanone	108-10-1	80	0.37	7.7		0.86
06192	Methylene Chloride	75-09-2	23	0.23	3.8		0.86
06192	n-Propylbenzene	103-65-1	26	0.07	3.8		0.86

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Sample Description: SL-064-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	20		0.1	3.8		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	20		0.11	3.8		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	20		0.22	3.8		0.86
06192	Tetrachloroethene	127-18-4	22		0.19	3.8		0.86
06192	Toluene	108-88-3	22		0.08	3.8		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	18		0.13	3.8		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	17		0.17	3.8		0.86
06192	1,1,1-Trichloroethane	71-55-6	19		0.19	3.8		0.86
06192	1,1,2-Trichloroethane	79-00-5	20		0.26	3.8		0.86
06192	Trichloroethene	79-01-6	22		0.14	3.8		0.86
06192	Trichlorofluoromethane	75-69-4	22		0.28	3.8		0.86
06192	1,2,3-Trichloropropane	96-18-4	19		0.32	3.8		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	23		0.38	3.8		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	24		0.1	3.8		0.86
06192	Vinyl Chloride	75-01-4	21		0.19	3.8		0.86
06192	m+p-Xylene	179601-23-1	44		0.16	3.8		0.86
06192	o-Xylene	95-47-6	21		0.16	3.8		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	130		4.9	15		21.78
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		19	190		1
04688	Acenaphthylene	208-96-8	1,700		19	190		1
04688	Aniline	62-53-3	1,300		190	560		1
04688	Anthracene	120-12-7	1,700		19	190		1
04688	Benzidine	92-87-5	1,300	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,700		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190		1
04688	Benzoic acid	65-85-0	1,500		190	560		1
04688	Benzyl alcohol	100-51-6	1,500		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,500		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	190		1
04688	4-Chloroaniline	106-47-8	1,500		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,700		19	190		1
04688	2-Chlorophenol	95-57-8	1,700		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		37	190		1
04688	Chrysene	218-01-9	1,700		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,600		19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-064-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,500	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190		1
04688	Diethylphthalate	84-66-2	1,700	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,700	37	190		1
04688	3,5-Dimethylphenol	108-68-9	1,800	37	190		1
04688	Dimethylphthalate	131-11-3	1,600	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100	190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,200	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,600	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	19	370		1
04688	Fluoranthene	206-44-0	1,800	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	1,500	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,500	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,800	190	560		1
04688	Hexachloroethane	67-72-1	1,500	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,600	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,500	19	190		1
04688	2-Methylphenol	95-48-7	1,700	37	190		1
04688	4-Methylphenol	106-44-5	1,700	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	19	190		1
04688	2-Nitroaniline	88-74-4	1,700	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	37	190		1
04688	4-Nitroaniline	100-01-6	1,600	75	190		1
04688	Nitrobenzene	98-95-3	1,700	19	190		1
04688	2-Nitrophenol	88-75-5	1,600	19	190		1
04688	4-Nitrophenol	100-02-7	1,800	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	19	190		1
04688	Pentachlorophenol	87-86-5	1,300	190	560		1
04688	Phenanthrene	85-01-8	1,700	19	190		1
04688	Phenol	108-95-2	1,600	19	190		1
04688	Pyrene	129-00-0	1,700	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	37	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-064-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,700		37	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 20 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32		0.74	1.9		1
10138	Acenaphthylene	208-96-8	34		0.37	1.9		1
10138	Anthracene	120-12-7	35		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	36		0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	40		0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	47		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	32		0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	37		0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	36		6.7	20		1
10138	Di-n-butylphthalate	84-74-2	39		6.7	20		1
10138	Chrysene	218-01-9	35		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	36		0.74	1.9		1
10138	Diethylphthalate	84-66-2	33		6.7	20		1
10138	Dimethylphthalate	131-11-3	35		6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39		6.7	20		1
10138	Fluoranthene	206-44-0	40		0.74	1.9		1
10138	Fluorene	86-73-7	35		0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35		0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	32		0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	29		0.74	1.9		1
10138	Naphthalene	91-20-3	32		0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	35		0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	40		6.7	20		1
10138	Phenanthrene	85-01-8	34		0.74	1.9		1
10138	Pyrene	129-00-0	32		0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	18		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	18		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,200		5.53	22.0		1
07914	Boron	7440-42-8	217		0.978	5.50		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-064-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,170	6.74	22.0		1
01654	Iron	7439-89-6	27,400	5.18	22.0		1
01656	Lithium	7439-93-2	146	0.24	2.2		1
01657	Magnesium	7439-95-4	6,250	2.79	11.0		1
06958	Manganese	7439-96-5	328	0.0857	0.550		1
10145	Phosphorus	7723-14-0	418	0.615	11.0		1
01662	Potassium	7440-09-7	4,010	19.8	55.0		1
01667	Sodium	7440-23-5	1,160	41.0	110		1
07968	Strontium	7440-24-6	129	0.0681	0.550		1
06969	Tin	7440-31-5	374	1.10	11.0		1
06970	Titanium	7440-32-6	1,430	0.418	1.10		1
10146	Zirconium	7440-67-7	108	0.923	5.50		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.361	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.96	0.0888	0.444		2
06126	Barium	7440-39-3	102	0.120	0.444		2
06127	Beryllium	7440-41-7	1.58	0.0178	0.111		2
06128	Cadmium	7440-43-9	1.25	0.0444	0.111		2
06131	Chromium	7440-47-3	30.8	0.133	0.444		2
06132	Cobalt	7440-48-4	64.6	0.0222	0.111		2
06133	Copper	7440-50-8	21.0	0.0733	0.444		2
06135	Lead	7439-92-1	9.79	0.0115	0.222		2
06138	Molybdenum	7439-98-7	10.7	0.0555	0.111		2
06139	Nickel	7440-02-0	27.6	0.111	0.444		2
06141	Selenium	7782-49-2	2.36	0.0444	0.444		2
06142	Silver	7440-22-4	11.5	0.0133	0.111		2
06145	Thallium	7440-28-0	0.689	0.0333	0.111		2
06148	Vanadium	7440-62-2	48.2	0.0244	0.111		2
06149	Zinc	7440-66-6	68.2	0.622	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.164	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.4	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	573	10.1	33.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	38.7	1.1	5.6		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	

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Sample Description: **SL-064-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-064-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 03:21	Angela D Sneeringer	0.86
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 04:06	Angela D Sneeringer	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 21:21	Jason M Long	21.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:21	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 11:59	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 11:32	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 22:04	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
01650	Calcium	SW-846 6010B	2	111255708007	05/06/2011 13:43	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1

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Analysis Report

Sample Description: **SL-064-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 10:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 10:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 10:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 01:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 00:06	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11132243201A	05/15/2011 15:24	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	6.8	8.2		0.91
06192	Benzene	71-43-2	24	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	22	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	26	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	21	0.08	4.1		0.91
06192	Bromoform	75-25-2	19	0.41	4.1		0.91
06192	Bromomethane	74-83-9	22	0.26	4.1		0.91
06192	2-Butanone	78-93-3	140	1.2	8.2		0.91
06192	n-Butylbenzene	104-51-8	24	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	25	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	23	0.16	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	23	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	22	0.11	4.1		0.91
06192	Chloroethane	75-00-3	22	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	10	0.31	4.1		0.91
06192	Chloroform	67-66-3	23	0.12	4.1		0.91
06192	Chloromethane	74-87-3	22	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	23	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	23	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	16	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.71	4.1		0.91
06192	Dibromochloromethane	124-48-1	20	0.20	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	21	0.17	4.1		0.91
06192	Dibromomethane	74-95-3	21	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	21	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	22	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	22	0.16	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	19	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	23	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	20	0.15	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	25	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	23	0.19	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	24	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	23	0.17	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	22	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	21	0.17	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	23	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.16	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	20	0.17	4.1		0.91
06192	Ethylbenzene	100-41-4	23	0.06	4.1		0.91
06192	Freon 113	76-13-1	27	0.11	4.1		0.91
06192	Freon 133a	75-88-7	20	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	20	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	92	1.6	8.2		0.91
06192	Isopropylbenzene	98-82-8	23	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	24	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.21	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	95	0.40	8.2		0.91
06192	Methylene Chloride	75-09-2	24	0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	25	0.07	4.1		0.91

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Sample Description: SL-064-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	21		0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	21		0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	22		0.23	4.1		0.91
06192	Tetrachloroethene	127-18-4	23		0.20	4.1		0.91
06192	Toluene	108-88-3	23		0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	18		0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	18		0.18	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	20		0.20	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	21		0.28	4.1		0.91
06192	Trichloroethene	79-01-6	23		0.15	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	23		0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	21		0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	23		0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	24		0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	22		0.20	4.1		0.91
06192	m+p-Xylene	179601-23-1	45		0.17	4.1		0.91
06192	o-Xylene	95-47-6	22		0.17	4.1		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	120		4.6	14		20.39
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		19	190		1
04688	Acenaphthylene	208-96-8	1,700		19	190		1
04688	Aniline	62-53-3	1,300		190	560		1
04688	Anthracene	120-12-7	1,700		19	190		1
04688	Benzidine	92-87-5	1,400	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,700		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190		1
04688	Benzoic acid	65-85-0	1,400		190	560		1
04688	Benzyl alcohol	100-51-6	1,500		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,500		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	190		1
04688	4-Chloroaniline	106-47-8	1,500		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190		1
04688	2-Chlorophenol	95-57-8	1,700		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		37	190		1
04688	Chrysene	218-01-9	1,700		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,700		19	190		1

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Sample Description: SL-064-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190		1
04688	Diethylphthalate	84-66-2	1,700	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	37	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900	37	190		1
04688	Dimethylphthalate	131-11-3	1,700	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200	190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,300	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,700	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	19	370		1
04688	Fluoranthene	206-44-0	1,700	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	1,600	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,500	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,900	190	560		1
04688	Hexachloroethane	67-72-1	1,600	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,500	19	190		1
04688	2-Methylphenol	95-48-7	1,700	37	190		1
04688	4-Methylphenol	106-44-5	1,800	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	19	190		1
04688	2-Nitroaniline	88-74-4	1,800	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	37	190		1
04688	4-Nitroaniline	100-01-6	1,500	75	190		1
04688	Nitrobenzene	98-95-3	1,700	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,800	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	19	190		1
04688	Pentachlorophenol	87-86-5	1,200	190	560		1
04688	Phenanthrene	85-01-8	1,700	19	190		1
04688	Phenol	108-95-2	1,600	19	190		1
04688	Pyrene	129-00-0	1,800	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	37	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,700		37	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 20 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32		0.74	1.9		1
10138	Acenaphthylene	208-96-8	33		0.37	1.9		1
10138	Anthracene	120-12-7	35		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	35		0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	39		0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	46		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	33		0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	37		0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	36		6.7	20		1
10138	Di-n-butylphthalate	84-74-2	40		6.7	20		1
10138	Chrysene	218-01-9	35		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	37		0.74	1.9		1
10138	Diethylphthalate	84-66-2	33		6.7	20		1
10138	Dimethylphthalate	131-11-3	35		6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	38		6.7	20		1
10138	Fluoranthene	206-44-0	40		0.74	1.9		1
10138	Fluorene	86-73-7	35		0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	36		0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	32		0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	29		0.74	1.9		1
10138	Naphthalene	91-20-3	33		0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	34		0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	39		6.7	20		1
10138	Phenanthrene	85-01-8	35		0.74	1.9		1
10138	Pyrene	129-00-0	31		0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	17		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	19		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,600		5.58	22.2		1
07914	Boron	7440-42-8	218		0.988	5.55		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-064-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		mg/kg	mg/kg	mg/kg	mg/kg	
01650	Calcium	7440-70-2	3,300	6.74	22.0		1
01654	Iron	7439-89-6	26,200	5.23	22.2		1
01656	Lithium	7439-93-2	142	0.24	2.2		1
01657	Magnesium	7439-95-4	5,950	2.82	11.1		1
06958	Manganese	7439-96-5	344	0.0866	0.555		1
10145	Phosphorus	7723-14-0	430	0.622	11.1		1
01662	Potassium	7440-09-7	4,180	20.0	55.5		1
01667	Sodium	7440-23-5	1,150	41.4	111		1
07968	Strontium	7440-24-6	128	0.0688	0.555		1
06969	Tin	7440-31-5	374	1.11	11.1		1
06970	Titanium	7440-32-6	1,430	0.422	1.11		1
10146	Zirconium	7440-67-7	107	0.932	5.55		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.480	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.5	0.0888	0.444		2
06126	Barium	7440-39-3	137	0.120	0.444		2
06127	Beryllium	7440-41-7	1.97	0.0178	0.111		2
06128	Cadmium	7440-43-9	1.59	0.0444	0.111		2
06131	Chromium	7440-47-3	37.1	0.133	0.444		2
06132	Cobalt	7440-48-4	81.6	0.0222	0.111		2
06133	Copper	7440-50-8	26.6	0.0733	0.444		2
06135	Lead	7439-92-1	12.4	0.0115	0.222		2
06138	Molybdenum	7439-98-7	14.2	0.0555	0.111		2
06139	Nickel	7440-02-0	35.4	0.111	0.444		2
06141	Selenium	7782-49-2	2.73	0.0444	0.444		2
06142	Silver	7440-22-4	14.2	0.0133	0.111		2
06145	Thallium	7440-28-0	0.846	0.0333	0.111		2
06148	Vanadium	7440-62-2	58.6	0.0244	0.111		2
06149	Zinc	7440-66-6	87.0	0.622	3.33		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.169	0.0032	0.110		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-064-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-064-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 03:44	Angela D Sneeringer	0.91
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 04:29	Angela D Sneeringer	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 21:42	Jason M Long	20.39
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:23	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 12:24	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 12:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 22:23	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
01650	Calcium	SW-846 6010B	2	111255708007	05/06/2011 13:47	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 10:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 10:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 10:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-064-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267476
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,200		5.53	22.0		1
07914	Boron	7440-42-8	8.19		0.978	5.50		1
01650	Calcium	7440-70-2	2,700		6.74	22.0		1
01654	Iron	7439-89-6	25,400		5.18	22.0		1
01656	Lithium	7439-93-2	32.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,500		2.79	11.0		1
06958	Manganese	7439-96-5	301		0.0857	0.550		1
10145	Phosphorus	7723-14-0	327		0.615	11.0		1
01662	Potassium	7440-09-7	2,730		19.8	55.0		1
01667	Sodium	7440-23-5	94.2	J	41.0	110		1
07968	Strontium	7440-24-6	18.3		0.0681	0.550		1
06969	Tin	7440-31-5	3.32	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,160		0.418	1.10		1
10146	Zirconium	7440-67-7	1.30	J	0.923	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0673	U	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.78		0.0897	0.448		2
06126	Barium	7440-39-3	97.7		0.121	0.448		2
06127	Beryllium	7440-41-7	0.814		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0816	J	0.0448	0.112		2
06131	Chromium	7440-47-3	22.9		0.135	0.448		2
06132	Cobalt	7440-48-4	7.84		0.0224	0.112		2
06133	Copper	7440-50-8	11.0		0.0740	0.448		2
06135	Lead	7439-92-1	7.04		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.550		0.0561	0.112		2
06139	Nickel	7440-02-0	18.2		0.112	0.448		2
06141	Selenium	7782-49-2	0.107	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0399	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.276		0.0336	0.112		2
06148	Vanadium	7440-62-2	40.7		0.0247	0.112		2
06149	Zinc	7440-66-6	62.4		0.628	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0062	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.22	1.1		1

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Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267476
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	396	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.87	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	11.0	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	2	111255708007	05/06/2011 13:40	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 10:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-064-SA5A-SB-3.0-4.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267476
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 10:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 10:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 00:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/09/2011 23:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11132243201A	05/15/2011 16:01	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-166-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267477
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13508 SDG#: DE135-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-166-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267477
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13508 SDG#: DE135-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,500		5.07	20.2		1
07914	Boron	7440-42-8	6.33		0.897	5.04		1
01650	Calcium	7440-70-2	2,920		6.18	20.2		1

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Sample Description: **SL-166-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267477
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13508 SDG#: DE135-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	19,100		4.75	20.2		1
01656	Lithium	7439-93-2	18.6		0.22	2.0		1
01657	Magnesium	7439-95-4	4,280		2.56	10.1		1
06958	Manganese	7439-96-5	256		0.0786	0.504		1
10145	Phosphorus	7723-14-0	329		0.564	10.1		1
01662	Potassium	7440-09-7	2,010		18.1	50.4		1
01667	Sodium	7440-23-5	62.2	J	37.6	101		1
07968	Strontium	7440-24-6	11.6		0.0625	0.504		1
06969	Tin	7440-31-5	2.89	J	1.01	10.1		1
06970	Titanium	7440-32-6	950		0.383	1.01		1
10146	Zirconium	7440-67-7	0.846	U	0.846	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0667	J	0.0605	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.01		0.0806	0.403		2
06126	Barium	7440-39-3	71.3		0.109	0.403		2
06127	Beryllium	7440-41-7	0.696		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.167		0.0403	0.101		2
06131	Chromium	7440-47-3	14.0		0.121	0.403		2
06132	Cobalt	7440-48-4	7.80		0.0202	0.101		2
06133	Copper	7440-50-8	6.54		0.0665	0.403		2
06135	Lead	7439-92-1	5.86		0.0105	0.202		2
06138	Molybdenum	7439-98-7	0.568		0.0504	0.101		2
06139	Nickel	7440-02-0	10.4		0.101	0.403		2
06141	Selenium	7782-49-2	0.0912	J	0.0403	0.403		2
06142	Silver	7440-22-4	0.191		0.0121	0.101		2
06145	Thallium	7440-28-0	0.296		0.0302	0.101		2
06148	Vanadium	7440-62-2	29.5		0.0222	0.101		2
06149	Zinc	7440-66-6	67.6		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0823	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	409		10.0	10.0		1

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Sample Description: SL-166-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267477
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13508 SDG#: DE135-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.86	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 15:16	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 15:51	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 22:41	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 09:43	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-166-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267477
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13508 SDG#: DE135-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 03:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 03:02	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 16:07	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182103A	04/26/2011 11:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039404A	04/26/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-253-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13509 SDG#: DE135-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.92
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.92
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.92
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.92
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.92
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.92
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.92
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.92
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.92
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.92
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.3		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.92
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.92
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.92
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.92
06192	Methylene Chloride	75-09-2	0.41	J	0.26	4.3		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.92

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Sample Description: **SL-253-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13509 SDG#: DE135-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.92
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.92
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.92
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.92
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.92
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.78
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-253-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13509 SDG#: DE135-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.48	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	1.3	J	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

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Sample Description: SL-253-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13509 SDG#: DE135-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	1.0	J	0.76	1.9		1
10138	Pyrene	129-00-0	0.80	J	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,700		5.79	23.0		1
07914	Boron	7440-42-8	9.59		1.03	5.76		1
01650	Calcium	7440-70-2	2,340		6.92	22.6		1
01654	Iron	7439-89-6	25,200		5.43	23.0		1
01656	Lithium	7439-93-2	26.8		0.25	2.3		1
01657	Magnesium	7439-95-4	4,870		2.93	11.5		1
06958	Manganese	7439-96-5	730		0.0899	0.576		1
10145	Phosphorus	7723-14-0	211		0.645	11.5		1
01662	Potassium	7440-09-7	2,090		20.7	57.6		1
01667	Sodium	7440-23-5	197		43.0	115		1
07968	Strontium	7440-24-6	24.9		0.0714	0.576		1
06969	Tin	7440-31-5	3.19	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,230		0.438	1.15		1
10146	Zirconium	7440-67-7	0.968	U	0.968	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0684	U	0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.07		0.0913	0.456		2
06126	Barium	7440-39-3	139		0.123	0.456		2
06127	Beryllium	7440-41-7	1.04		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.0854	J	0.0456	0.114		2
06131	Chromium	7440-47-3	24.8		0.137	0.456		2
06132	Cobalt	7440-48-4	8.59		0.0228	0.114		2
06133	Copper	7440-50-8	10.3		0.0753	0.456		2
06135	Lead	7439-92-1	7.08		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.783		0.0570	0.114		2

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Sample Description: SL-253-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

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14420 Albemarle Point Place
Suite 210
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13509 SDG#: DE135-09

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	20.5		0.114	0.456		2
06141	Selenium		7782-49-2	0.0748	J	0.0456	0.456		2
06142	Silver		7440-22-4	0.0646	J	0.0137	0.114		2
06145	Thallium		7440-28-0	0.375		0.0342	0.114		2
06148	Vanadium		7440-62-2	49.5		0.0251	0.114		2
06149	Zinc		7440-66-6	60.8		0.639	3.42		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0124	J	0.0032	0.113		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.9		0.92	1.2		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.4	U	10.4	34.6		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.40	J	0.23	1.2		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	438		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.59		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	13.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-253-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-253-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13509 SDG#: DE135-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 07:51	Angela D Sneeringer	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 22:22	Jason M Long	21.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:26	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:25	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 15:40	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 16:23	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 23:00	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111255708007	05/06/2011 13:54	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13509 SDG#: DE135-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 03:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 03:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11132243201A	05/15/2011 16:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182103A	04/26/2011 11:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039404A	04/26/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-253-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267479
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13510 SDG#: DE135-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267479
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13510 SDG#: DE135-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,200		5.52	21.9		1
07914	Boron	7440-42-8	7.51		0.976	5.48		1
01650	Calcium	7440-70-2	2,710		6.72	21.9		1

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Analysis Report

Sample Description: SL-253-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267479
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13510 SDG#: DE135-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	24,300		5.17	21.9		1
01656	Lithium	7439-93-2	28.6		0.24	2.2		1
01657	Magnesium	7439-95-4	5,370		2.79	11.0		1
06958	Manganese	7439-96-5	208		0.0855	0.548		1
10145	Phosphorus	7723-14-0	208		0.614	11.0		1
01662	Potassium	7440-09-7	2,080		19.7	54.8		1
01667	Sodium	7440-23-5	166		40.9	110		1
07968	Strontium	7440-24-6	21.8		0.0680	0.548		1
06969	Tin	7440-31-5	3.29	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,200		0.417	1.10		1
10146	Zirconium	7440-67-7	0.921	U	0.921	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0664	U	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.95		0.0886	0.443		2
06126	Barium	7440-39-3	105		0.120	0.443		2
06127	Beryllium	7440-41-7	0.775		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.101	J	0.0443	0.111		2
06131	Chromium	7440-47-3	26.4		0.133	0.443		2
06132	Cobalt	7440-48-4	8.45		0.0221	0.111		2
06133	Copper	7440-50-8	11.0		0.0731	0.443		2
06135	Lead	7439-92-1	6.76		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.480		0.0554	0.111		2
06139	Nickel	7440-02-0	15.1		0.111	0.443		2
06141	Selenium	7782-49-2	0.0882	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0423	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.297		0.0332	0.111		2
06148	Vanadium	7440-62-2	47.6		0.0244	0.111		2
06149	Zinc	7440-66-6	60.6		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0087	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	458		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267479
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13510 SDG#: DE135-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.17	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 16:05	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 16:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 23:18	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111255708007	05/06/2011 13:58	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-253-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267479
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13510 SDG#: DE135-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 03:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 03:46	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11132243201A	05/15/2011 16:38	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182103A	04/26/2011 11:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039404A	04/26/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP16-SA5A-QC-042211 Soil
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13511 SDG#: DE135-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.89
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.89
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.89
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.89
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.89
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.89
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.89
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.89
06192	Methylene Chloride	75-09-2	0.67	J	0.24	4.0		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.89

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP16-SA5A-QC-042211 Soil
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13511 SDG#: DE135-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13		19.9
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP16-SA5A-QC-042211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13511 SDG#: DE135-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	14	J	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	7.0	J	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.97	J	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP16-SA5A-QC-042211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13511 SDG#: DE135-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,700		5.57	22.1		1
07914	Boron	7440-42-8	7.87		0.986	5.54		1
01650	Calcium	7440-70-2	2,990		6.79	22.1		1
01654	Iron	7439-89-6	26,600		5.22	22.1		1
01656	Lithium	7439-93-2	36.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,980		2.81	11.1		1
06958	Manganese	7439-96-5	296		0.0864	0.554		1
10145	Phosphorus	7723-14-0	297		0.620	11.1		1
01662	Potassium	7440-09-7	2,490		19.9	55.4		1
01667	Sodium	7440-23-5	102	J	41.3	111		1
07968	Strontium	7440-24-6	19.6		0.0687	0.554		1
06969	Tin	7440-31-5	3.45	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,190		0.421	1.11		1
10146	Zirconium	7440-67-7	0.930	U	0.930	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0664	U	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.02		0.0886	0.443		2
06126	Barium	7440-39-3	113		0.120	0.443		2
06127	Beryllium	7440-41-7	0.952		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.112		0.0443	0.111		2
06131	Chromium	7440-47-3	25.9		0.133	0.443		2
06132	Cobalt	7440-48-4	8.70		0.0221	0.111		2
06133	Copper	7440-50-8	14.5		0.0731	0.443		2
06135	Lead	7439-92-1	8.33		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.575		0.0554	0.111		2

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Sample Description: **DUP16-SA5A-QC-042211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13511 SDG#: DE135-11FD

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	20.2		0.111	0.443		2
06141	Selenium		7782-49-2	0.170	J	0.0443	0.443		2
06142	Silver		7440-22-4	0.0405	J	0.0133	0.111		2
06145	Thallium		7440-28-0	0.353		0.0332	0.111		2
06148	Vanadium		7440-62-2	46.5		0.0244	0.111		2
06149	Zinc		7440-66-6	69.4		0.620	3.32		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0093	J	0.0032	0.110		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	3.0		0.89	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.1	U	10.1	33.6		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.29	J	0.22	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	454		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.08		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	10.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP16-SA5A-QC-042211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13511 SDG#: DE135-11FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 08:13	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 22:42	Jason M Long	19.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:28	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 16:29	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 17:28	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 04:13	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111255708007	05/06/2011 14:08	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **DUP16-SA5A-QC-042211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13511 SDG#: DE135-11FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202B	05/10/2011 04:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202B	05/10/2011 04:08	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11132243201A	05/15/2011 16:51	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202B	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202B	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182103A	04/26/2011 11:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039404A	04/26/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-042211 Water
SSFL Area IV Collocated Soil Sampling
TB-042211

LLI Sample # WW 6267481
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 08:00

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13512 SDG#: DE135-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-042211 Water**
SSFL Area IV Collocated Soil Sampling
TB-042211

LLI Sample # WW 6267481
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 08:00

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13512 SDG#: DE135-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111171AA	04/27/2011	13:09	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111151AA	04/25/2011	11:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111151AA	04/25/2011	11:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111171AA	04/27/2011	13:09	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11117B20A	04/28/2011	00:12	Elizabeth J Marin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11117B20A	04/28/2011	00:12	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111171AA	Sample number(s): 6267467,6267469-6267475,6267478,6267480									
Acetone	6.7	U	6.7	8.0	ug/kg	97		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	119		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	86		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	95		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	86		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	111		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	111		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	96		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	94		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	52		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	95		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	77		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	85		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	90		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	95		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	99		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	101		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	74		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	103		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	94		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	109		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	88		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	102		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	107		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	102		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	84		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	86		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	85		61-134		
Methylene Chloride	0.46	J	0.24	4.0	ug/kg	107		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	112		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	97		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99		77-120		
Toluene	0.08	J	0.08	4.0	ug/kg	103		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	98		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	97		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	96		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	105		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	101		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	95		80-120		
Batch number: E111151AA	Sample number(s): 6267481									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	118	117	80-123	1	30
Batch number: E111152BA	Sample number(s): 6267467,6267469-6267475,6267478,6267480									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	119	70-130	12	30
Batch number: Y111171AA	Sample number(s): 6267481									
Acetone	6	U	6.	20	ug/l	100	100	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	98	96	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	90	92	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	95	94	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	112	107	80-120	4	30
Bromoform	1	U	1.	5	ug/l	94	93	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	121*	125*	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	97	99	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	99	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	98	98	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	92	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	122	117	75-123	4	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	115	112	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	93	95	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	114	109	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	128	139*	60-129	8	30
2-Chlorotoluene	1	U	1.	5	ug/l	93	92	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	92	95	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	89	86	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	100	104	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	98	96	80-120	3	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	97	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	107	104	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	91	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	91	92	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	92	91	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	123*	122*	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	103	103	79-120	0	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	131*	126	70-130	5	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	107	105	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	92	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	97	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	97	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	120	118	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	108	104	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	101	101	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	98	95	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	97	79-120	2	30
Freon 113	2	U	2.	10	ug/l	101	102	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	132*	132*	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	92	94	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	98	99	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	102	100	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	99	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	103	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	102	102	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	94	93	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	98	97	80-120	0	30
Styrene	1	U	1.	5	ug/l	95	93	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	88	88	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	96	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	92	91	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	94	93	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	87	87	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	106	103	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	91	88	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	105	101	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	123	119	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	99	100	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	102	101	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	124	127*	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
Batch number: 11120SLB026	Sample number(s): 6267469-6267472									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	89		70-130		
Batch number: 11120SLD026	Sample number(s): 6267467-6267475,6267477-6267480									
Acenaphthene	17	U	17.	170	ug/kg	91		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	94		75-122		
Aniline	170 U		170.	500	ug/kg	76		34-94		
Anthracene	17	U	17.	170	ug/kg	93		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	58		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	90		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	89		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	95		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	84		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	84		67-125		
Benzoic acid	170 U		170.	500	ug/kg	85		62-113		
Benzyl alcohol	170		170.	500	ug/kg	87		68-111		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	82		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	100		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	100		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	68		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	82		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Chrysene	17	U	17.	170	ug/kg	89		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	85		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	72		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	98		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	99		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	87		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	95		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	98		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	93		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	100		77-111		
bis(2-Ethylhexyl)phthalate	20	J	17.	330	ug/kg	104		75-117		
Fluoranthene	17	U	17.	170	ug/kg	99		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	82		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	79		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	83		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	92		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	85		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	94		66-117		
Naphthalene	17	U	17.	170	ug/kg	89		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	97		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	83		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	97		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	104		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	95		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-octylphthalate	17	U	17.	170	ug/kg	100		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	72		51-117		
Phenanthrene	17	U	17.	170	ug/kg	92		77-113		
Phenol	17	U	17.	170	ug/kg	87		58-112		
Pyrene	17	U	17.	170	ug/kg	92		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	92		78-111		
Batch number: 11120SLE026	Sample number(s): 6267467-6267475,6267477-6267480									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	85		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	88		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	103		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	104		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	89		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	94		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	103		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	95		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	96		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	93		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	96		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	94		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	103		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	80		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	85		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	105		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	82		56-121		
Batch number: 11112A34B	Sample number(s): 6267469-6267472									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69		67-119		
Batch number: 11117B20A	Sample number(s): 6267481									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111180034A	Sample number(s): 6267469-6267472									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	117		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	110	109	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	110	108	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	115		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	112		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
HMX	100	U	100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	118		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	95		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	111		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	115		73-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80 U	U	80.	120	ug/kg	109		80-120		
PETN	800 U	U	800.	2,400	ug/kg	124*		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	102		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	113		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
Batch number: 111160002A	Sample number(s): 6267469-6267472									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	105		80-126		
Batch number: 111200018A	Sample number(s): 6267467-6267475,6267477-6267479									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	95	88	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	110		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111230023A	Sample number(s): 6267480									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	91	115*	36-106	22	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111170029A	Sample number(s): 6267469-6267472									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	102		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	78		66-113		
Batch number: 111170001A	Sample number(s): 6267467									
Diethylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	98		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Batch number: 111180032A	Sample number(s): 6267469-6267472									
Ethanol	100 U	U	100.	500	ug/kg	97		71-129		
Isopropanol	100 U	U	100.	500	ug/kg	98		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methanol	100 U		100.	500	ug/kg	92		68-129		
Batch number: 111190001A	Sample number(s): 6267468-6267472									
Diethylene glycol	5.0	U	5.0	13	mg/kg	113		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	110		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Batch number: 111220022A	Sample number(s): 6267469-6267472									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
Batch number: 111191026001A	Sample number(s): 6267467-6267480									
Antimony	0.0588	U	0.0588	0.196	mg/kg	68		27-181		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	106		83-113		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	106		86-111		
Cadmium	0.0392	U	0.0392	0.0980	mg/kg	112		82-118		
Chromium	0.118	U	0.118	0.392	mg/kg	110		80-120		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	114		82-118		
Copper	0.0910	J	0.0647	0.392	mg/kg	108		83-110		
Lead	0.0102	U	0.0102	0.196	mg/kg	102		83-110		
Nickel	0.0980	U	0.0980	0.392	mg/kg	107		81-110		
Silver	0.0118	U	0.0118	0.0980	mg/kg	108		81-111		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	106		83-110		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	102		84-116		
Zinc	0.549	U	0.549	2.94	mg/kg	106		81-112		
Batch number: 111191026001B	Sample number(s): 6267467-6267480									
Selenium	0.0392	U	0.0392	0.392	mg/kg	107		83-111		
Batch number: 111191026001C	Sample number(s): 6267467-6267480									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	117		78-122		
Batch number: 111191026001D	Sample number(s): 6267467-6267480									
Barium	0.106	U	0.106	0.392	mg/kg	106		81-111		
Batch number: 111195708001	Sample number(s): 6267467-6267480									
Aluminum	5.87	J	4.98	19.8	mg/kg	97		61-110		
Boron	0.881	U	0.881	4.95	mg/kg	97		78-110		
Calcium	132		6.07	19.8	mg/kg	103		88-110		
Iron	5.63	J	4.66	19.8	mg/kg	91		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.51	U	2.51	9.90	mg/kg	102		82-110		
Manganese	0.0772	U	0.0772	0.495	mg/kg	100		89-112		
Phosphorus	1.51	J	0.554	9.90	mg/kg	102		80-120		
Potassium	17.8	U	17.8	49.5	mg/kg	101		78-110		
Sodium	36.9	U	36.9	99.0	mg/kg	103		87-110		
Strontium	0.195	J	0.0614	0.495	mg/kg	102		86-110		
Tin	1.76	J	0.990	9.90	mg/kg	99		90-114		
Titanium	0.376	U	0.376	0.990	mg/kg	86		80-120		
Zirconium	0.832	U	0.832	4.95	mg/kg	100		80-120		
Batch number: 111195711001	Sample number(s): 6267467-6267480									
Mercury	0.0140	J	0.0027	0.0932	mg/kg	99		88-123		
Batch number: 111255708007	Sample number(s): 6267473-6267476,6267478-6267480									
Calcium	6.13	U	6.13	20.0	mg/kg	95		88-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11122102201B	Sample number(s): 6267469-6267472									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11127621202A	Sample number(s): 6267467-6267474,6267476-6267479									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	98		85-115		
Batch number: 11127621202B	Sample number(s): 6267480									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	98		85-115		
Batch number: 11128621202A	Sample number(s): 6267467-6267474,6267476-6267479									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11128621202B	Sample number(s): 6267480									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
Batch number: 11132243201A	Sample number(s): 6267467-6267474,6267476-6267480									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	86		80-120		
Batch number: 11116039402B	Sample number(s): 6267467-6267473,6267476									
18a pH by 9045C						100		95-105		
Batch number: 11116039404A	Sample number(s): 6267477-6267480									
18a pH by 9045C						100		95-105		
Batch number: 11116182102B	Sample number(s): 6267467-6267473,6267476									
32a OR Potential						99		98-102		
Batch number: 11116182103A	Sample number(s): 6267477-6267480									
32a OR Potential						99		98-102		
Batch number: 11123162401A	Sample number(s): 6267467-6267468,6267473-6267480									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11125162401A	Sample number(s): 6267469-6267472									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111171AA	Sample number(s): 6267467,6267469-6267475,6267478,6267480 UNSPK: 6267473								
Acetone	90	97	15-210	13	30				
Benzene	120	118	55-143	4	30				
Bromobenzene	113	109	43-139	3	30				
Bromochloromethane	123	127	60-137	9	30				
Bromodichloromethane	104	104	53-136	6	30				
Bromoform	90	92	38-124	8	30				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bromomethane	111	107	42-168	2	30				
2-Butanone	84	90	37-163	13	30				
n-Butylbenzene	128	119	30-146	1	30				
sec-Butylbenzene	131	124	33-157	0	30				
tert-Butylbenzene	116	113	41-152	3	30				
Carbon Tetrachloride	113	111	45-153	4	30				
Chlorobenzene	112	110	49-135	4	30				
Chloroethane	114	109	39-152	1	30				
2-Chloroethyl Vinyl Ether	51	51	32-139	6	30				
Chloroform	112	111	61-142	5	30				
Chloromethane	109	107	51-163	4	30				
2-Chlorotoluene	118	114	42-146	2	30				
4-Chlorotoluene	117	111	39-145	1	30				
Chlorotrifluoroethene	91	86	70-130	8	30				
1,2-Dibromo-3-chloropropane	79	88	30-139	16	30				
Dibromochloromethane	98	100	51-128	8	30				
1,2-Dibromoethane	101	104	54-129	9	30				
Dibromomethane	100	101	57-130	6	30				
1,2-Dichlorobenzene	107	105	36-133	4	30				
1,3-Dichlorobenzene	113	107	34-134	1	30				
1,4-Dichlorobenzene	111	107	35-136	2	30				
Dichlorodifluoromethane	94	93	26-151	5	30				
1,1-Dichloroethane	115	115	63-142	5	30				
1,2-Dichloroethane	101	100	68-131	5	30				
1,1-Dichloroethene	126	124	61-149	5	30				
cis-1,2-Dichloroethene	113	111	60-136	5	30				
trans-1,2-Dichloroethene	116	115	59-142	5	30				
1,2-Dichloropropane	114	113	62-135	5	30				
1,3-Dichloropropane	103	106	58-129	8	30				
2,2-Dichloropropane	102	102	53-147	6	30				
1,1-Dichloropropene	116	114	54-145	4	30				
cis-1,3-Dichloropropene	101	103	51-131	8	30				
trans-1,3-Dichloropropene	94	96	49-129	8	30				
Ethylbenzene	116	112	44-141	3	30				
Freon 113	136	132	56-156	3	30				
Freon 133a	115	109	61-131	8	30				
Hexachlorobutadiene	106	100	10-155	0	30				
2-Hexanone	82	90	32-160	15	30				
Isopropylbenzene	117	112	38-144	2	30				
p-Isopropyltoluene	124	116	29-152	1	30				
Methyl Tertiary Butyl Ether	88	94	55-129	13	30				
4-Methyl-2-pentanone	83	93	46-139	17	30				
Methylene Chloride	116	113	61-141	4	30				
n-Propylbenzene	134	123	39-157	3	30				
Styrene	107	103	35-134	3	30				
1,1,1,2-Tetrachloroethane	104	105	52-130	7	30				
1,1,2,2-Tetrachloroethane	103	105	40-152	8	30				
Tetrachloroethene	115	112	42-149	3	30				
Toluene	116	114	50-146	4	30				
1,2,3-Trichlorobenzene	91	91	10-140	5	30				
1,2,4-Trichlorobenzene	90	89	10-136	5	30				
1,1,1-Trichloroethane	99	97	64-142	4	30				
1,1,2-Trichloroethane	103	105	54-139	8	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Trichloroethene	113	111	53-144	4	30				
Trichlorofluoromethane	115	112	47-163	3	30				
1,2,3-Trichloropropane	98	101	45-154	9	30				
1,2,4-Trimethylbenzene	118	113	37-149	2	30				
1,3,5-Trimethylbenzene	124	116	38-150	0	30				
Vinyl Chloride	109	107	50-154	4	30				
m+p-Xylene	114	110	44-137	3	30				
o-Xylene	107	105	42-137	4	30				
Batch number: E111152BA	Sample number(s): 6267467,6267469-6267475,6267478,6267480 UNSPK: 6267473								
1,4-Dioxane	104	103	70-130	7	30				
Batch number: 11120SLB026	Sample number(s): 6267469-6267472 UNSPK: P266014								
N-Nitrosodimethylamine	101	68*	70-130	35*	30				
Batch number: 11120SLD026	Sample number(s): 6267467-6267475,6267477-6267480 UNSPK: 6267473								
Acenaphthene	88	88	75-115	1	30				
Acenaphthylene	91	91	81-110	0	30				
Aniline	70	71	35-95	1	30				
Anthracene	92	91	75-115	1	30				
Benzidine	14*	15*	35-141	8	30				
Benzo(a)anthracene	91	91	65-122	0	30				
Benzo(a)pyrene	88	88	57-126	1	30				
Benzo(b)fluoranthene	90	91	59-125	1	30				
Benzo(g,h,i)perylene	86	87	59-127	2	30				
Benzo(k)fluoranthene	88	88	56-132	0	30				
Benzoic acid	78	77	10-173	1	30				
Benzyl alcohol	82	80	67-115	2	30				
4-Bromophenyl-phenylether	83	82	67-129	1	30				
Butylbenzylphthalate	102	103	73-134	1	30				
Di-n-butylphthalate	96	97	67-123	2	30				
Carbazole	94	94	64-120	0	30				
4-Chloro-3-methylphenol	96	96	76-110	1	30				
4-Chloroaniline	81	78	23-95	4	30				
bis(2-Chloroethoxy)methane	92	90	75-104	1	30				
bis(2-Chloroethyl)ether	89	91	60-116	2	30				
bis(2-Chloroisopropyl)ether	83	84	55-142	1	30				
2-Chloronaphthalene	89	86	50-141	4	30				
2-Chlorophenol	89	91	73-121	2	30				
4-Chlorophenyl-phenylether	86	88	80-109	3	30				
Chrysene	89	88	62-128	1	30				
Dibenz(a,h)anthracene	86	88	65-125	2	30				
Dibenzofuran	88	89	71-112	1	30				
1,2-Dichlorobenzene	81	84	66-108	4	30				
1,3-Dichlorobenzene	81	83	63-109	3	30				
1,4-Dichlorobenzene	82	84	70-100	2	30				
3,3'-Dichlorobenzidine	80	78	16-119	3	30				
2,4-Dichlorophenol	92	93	78-117	1	30				
Diethylphthalate	93	93	66-118	1	30				
2,4-Dimethylphenol	93	94	78-110	1	30				
3,5-Dimethylphenol	99	101	70-130	2	30				
Dimethylphthalate	88	89	64-118	2	30				
4,6-Dinitro-2-methylphenol	60	62	24-116	2	30				

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Quality Control Summary

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Reported: 05/20/11 at 11:16 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrophenol	33	34	20-143	3	30				
2,4-Dinitrotoluene	92	93	73-113	0	30				
2,6-Dinitrotoluene	88	89	69-123	1	30				
1,2-Diphenylhydrazine	100	100	71-129	0	30				
bis(2-Ethylhexyl)phthalate	105	107	63-122	2	30				
Fluoranthene	97	93	73-112	5	30				
Fluorene	90	92	77-111	1	30				
Hexachlorobenzene	82	83	77-114	2	30				
Hexachlorobutadiene	81	83	62-120	2	30				
Hexachlorocyclopentadiene	74	76	10-153	3	30				
Hexachloroethane	82	83	57-109	2	30				
Indeno(1,2,3-cd)pyrene	84	85	61-126	1	30				
Isophorone	90	90	73-102	0	30				
1-Methylnaphthalene	88	89	73-112	1	30				
2-Methylnaphthalene	80	81	76-114	1	30				
2-Methylphenol	91	92	75-111	1	30				
4-Methylphenol	91	94	71-111	3	30				
Naphthalene	84	85	72-116	0	30				
2-Nitroaniline	93	94	67-125	1	30				
3-Nitroaniline	91	93	59-122	2	30				
4-Nitroaniline	83	80	52-112	4	30				
Nitrobenzene	92	93	72-106	1	30				
2-Nitrophenol	87	91	74-115	4	30				
4-Nitrophenol	99	95	54-113	4	30				
N-Nitroso-di-n-propylamine	86	87	60-116	1	30				
N-Nitrosodimethylamine	83	90	47-116	9	30				
N-Nitrosodiphenylamine	91	92	86-145	2	30				
Di-n-octylphthalate	101	106	56-126	5	30				
Pentachlorophenol	67	66	28-127	2	30				
Phenanthrene	91	90	65-125	1	30				
Phenol	86	85	58-126	0	30				
Pyrene	93	95	74-126	1	30				
1,2,4-Trichlorobenzene	86	86	72-115	1	30				
2,4,5-Trichlorophenol	90	92	78-109	2	30				
2,4,6-Trichlorophenol	90	92	77-115	2	30				
Batch number: 11120SLE026	Sample number(s): 6267467-6267475,6267477-6267480 UNSPK: 6267473								
Acenaphthene	88	87	63-105	0	30				
Acenaphthylene	91	89	67-114	2	30				
Anthracene	94	94	60-122	0	30				
Benzo(a)anthracene	96	94	59-128	2	30				
Benzo(a)pyrene	108	106	45-138	2	30				
Benzo(b)fluoranthene	126	124	43-155	2	30				
Benzo(g,h,i)perylene	87	89	33-141	3	30				
Benzo(k)fluoranthene	100	99	42-144	1	30				
Butylbenzylphthalate	97	96	57-173	1	30				
Di-n-butylphthalate	104	109	65-148	5	30				
Chrysene	94	94	48-134	0	30				
Dibenz(a,h)anthracene	96	98	22-133	2	30				
Diethylphthalate	88	89	70-136	2	30				
Dimethylphthalate	95	95	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	104	102	39-167	2	30				
Fluoranthene	109	108	26-166	0	30				

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Quality Control Summary

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Reported: 05/20/11 at 11:16 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluorene	94	93	66-122	1	30				
Indeno(1,2,3-cd)pyrene	94	97	21-143	2	30				
1-Methylnaphthalene	85	87	72-123	2	30				
2-Methylnaphthalene	77	78	64-103	1	30				
Naphthalene	85	89	61-102	5	30				
N-Nitrosodimethylamine	94	90	48-113	5	30				
Di-n-octylphthalate	107	104	40-192	3	30				
Phenanthrene	92	93	12-165	1	30				
Pyrene	87	85	15-153	2	30				
Batch number: 11112A34B	Sample number(s): 6267469-6267472 UNSPK: P264845								
9a TPH by EPA 8015B Gas C5-C12	62	61	39-118	7	30				
Batch number: 111180034A	Sample number(s): 6267469-6267472 UNSPK: P264819								
4-Amino-2,6-Dinitrotoluene	110	110	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	110	109	80-137	1	50				
1,3-Dinitrobenzene	110	109	38-166	1	50				
2,4-Dinitrotoluene	107	106	80-131	1	50				
2,6-Dinitrotoluene	114	112	80-127	2	50				
HMX	98	97	63-128	1	50				
Nitrobenzene	107	103	80-125	3	50				
Nitroglycerin	103	103	80-120	0	50				
2-Nitrotoluene	110	107	80-122	3	50				
3-Nitrotoluene	111	110	72-119	1	50				
4-Nitrotoluene	106	104	80-125	1	50				
PETN	125*	124*	80-121	1	50				
RDX	96	96	75-129	0	50				
Tetryl	85	90	55-174	6	50				
1,3,5-Trinitrobenzene	108	107	82-126	1	50				
2,4,6-Trinitrotoluene	108	108	82-130	1	50				
Batch number: 111160002A	Sample number(s): 6267469-6267472 UNSPK: P262830								
25a Formaldehyde 8315A	97	103	80-120	7	50				
Batch number: 111200018A	Sample number(s): 6267467-6267475,6267477-6267479 UNSPK: 6267473								
PCB-1016	98	94	29-146	4	50				
PCB-1260	98	102	39-149	4	50				
Batch number: 111230023A	Sample number(s): 6267480 UNSPK: P272812								
PCB-1016	110	120	29-146	9	50				
PCB-1260	119	139	39-149	15	50				
Batch number: 111170029A	Sample number(s): 6267469-6267472 UNSPK: P262830								
EFH (C12-C14)	93	93	49-123	0	20				
EFH (C15-C20)	103	115	49-123	7	20				
EFH (C21-C30)	147*	157*	49-123	2	20				
EFH (C30 - C40)	159 (2)	228 (2)	49-123	8	20				
EFH (C8-C11)	73	70	49-123	5	20				
Batch number: 111170001A	Sample number(s): 6267467 UNSPK: 6267467								
Diethylene glycol	88	88	59-109	1	20				
Ethylene glycol	86	86	63-107	1	20				
Propylene glycol	87	84	63-107	4	20				

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Quality Control Summary

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Reported: 05/20/11 at 11:16 AM

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111180032A	Sample number(s): 6267469-6267472 UNSPK: 6267470								
Ethanol	81	80	48-130	1	20				
Isopropanol	81	80	12-149	2	20				
Methanol	79	78	43-138	1	20				
Batch number: 111190001A	Sample number(s): 6267468-6267472 UNSPK: 6267468								
Diethylene glycol	95	115*	59-109	19	20				
Ethylene glycol	96	116*	63-107	19	20				
Propylene glycol	95	113*	63-107	17	20				
Batch number: 111220022A	Sample number(s): 6267469-6267472 UNSPK: P262830								
m-Terphenyl	83	84	75-125	1	20				
o-Terphenyl	98	99	75-125	1	20				
p-Terphenyl	92	94	75-125	2	20				
Batch number: 111191026001A	Sample number(s): 6267467-6267480 UNSPK: 6267473 BKG: 6267473								
Antimony	27*	36*	75-125	28*	20	0.0588 U	0.0600 U	0 (1)	20
Arsenic	70*	184*	75-125	25*	20	6.62	6.04	9	20
Beryllium	81	124	75-125	22*	20	0.771	0.726	6	20
Cadmium	104	135*	75-125	24*	20	0.0836 J	0.0728 J	14 (1)	20
Chromium	66*	122	75-125	18	20	21.0	20.4	3	20
Cobalt	102	133*	75-125	23*	20	7.22	6.99	3	20
Copper	86	137*	75-125	24*	20	10.2	9.82	4	20
Lead	68*	148*	75-125	24*	20	6.71	6.28	7	20
Nickel	83	153*	75-125	25*	20	16.5	16.2	2	20
Silver	103	127*	75-125	21*	20	0.0360 J	0.0356 J	1 (1)	20
Thallium	84	119	75-125	20	20	0.282	0.247	13 (1)	20
Vanadium	59*	153*	75-125	20	20	37.2	36.3	2	20
Zinc	39 (2)	209 (2)	75-125	24*	20	56.9	55.6	2	20
Batch number: 111191026001B	Sample number(s): 6267467-6267480 UNSPK: 6267473 BKG: 6267473								
Selenium	100	117	75-125	15	20	0.120 J	0.0957 J	22* (1)	20
Batch number: 111191026001C	Sample number(s): 6267467-6267480 UNSPK: 6267473 BKG: 6267473								
Molybdenum	92	123	75-125	28*	20	0.474	0.491	3 (1)	20
Batch number: 111191026001D	Sample number(s): 6267467-6267480 UNSPK: 6267473 BKG: 6267473								
Barium	-1 (2)	316 (2)	75-125	29*	20	91.0	87.2	4	20
Batch number: 111195708001	Sample number(s): 6267467-6267480 UNSPK: 6267473 BKG: 6267473								
Aluminum	2399 (2)	2118 (2)	75-125	2	20	19,600	18,900	4	20
Boron	95	94	84-115	0	20	7.34	7.30	1 (1)	20
Calcium	184 (2)	139 (2)	75-125	6	20	2,460	2,490	1	20
Iron	2247 (2)	1156 (2)	75-125	4	20	22,200	22,600	2	20
Lithium	103	99	82-114	2	20	29.2	29.0	1	20
Magnesium	360 (2)	221 (2)	75-125	5	20	4,870	4,900	1	20
Manganese	67 (2)	95 (2)	75-125	5	20	260	269	3	20
Phosphorus	100	109	75-125	3	20	276	292	6	20
Potassium	122	137*	75-125	4	20	2,380	2,430	2	20
Sodium	97	95	75-125	0	20	83.1 J	84.0 J	1 (1)	20

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Strontium	101	99	75-115	1	20	16.3		16.3		0	20
Tin	84	84	80-110	0	20	3.12	J	2.96	J	5 (1)	20
Titanium	237 (2)	231 (2)	75-125	0	20	1,040		1,040		1	20
Zirconium	98	96	75-125	1	20	0.832	U	1.16	J	200* (1)	20
Batch number: 111195711001	Sample number(s): 6267467-6267480 UNSPK: 6267473 BKG: 6267473										
Mercury	78	78	65-135	3	20	0.0232	J	0.0055	J	123* (1)	20
Batch number: 111255708007	Sample number(s): 6267473-6267476,6267478-6267480 UNSPK: 6267473 BKG: 6267473										
Calcium	56 (2)	87 (2)	75-125	4	20	2,600		2,410		8	20
Batch number: 11122102201B	Sample number(s): 6267469-6267472 UNSPK: P266014 BKG: P266014										
17a Cyanide by 9012B	98		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11127621202A	Sample number(s): 6267467-6267474,6267476-6267479 UNSPK: 6267473 BKG: 6267473										
7a Perchlorate EPA 314.0	102		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11127621202B	Sample number(s): 6267480 UNSPK: 6267480 BKG: 6267480										
7a Perchlorate EPA 314.0	109		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11128621202A	Sample number(s): 6267467-6267474,6267476-6267479 UNSPK: 6267473 BKG: 6267473										
11a Anions by 300.0 - Fluoride	47*		80-120			2.0		1.9		7 (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			1.1	J	1.1	J	6 (1)	20
Batch number: 11128621202B	Sample number(s): 6267480 UNSPK: 6267480 BKG: 6267480										
11a Anions by 300.0 - Fluoride	49*		80-120			2.7		2.3		15 (1)	20
Batch number: 11132243201A	Sample number(s): 6267467-6267474,6267476-6267480 UNSPK: 6267473 BKG: 6267473										
3a Cr VI by EPA 7199	87		75-125			0.20	U	0.58	J	200* (1)	20
Batch number: 11116039402B	Sample number(s): 6267467-6267473,6267476 BKG: 6267473										
18a pH by 9045C						6.86		6.87		0	1
Batch number: 11116039404A	Sample number(s): 6267477-6267480 BKG: 6267477										
18a pH by 9045C						6.86		6.70		2*	1
Batch number: 11116182102B	Sample number(s): 6267467-6267473,6267476 BKG: P266079										
32a OR Potential						407		407		0	6
Batch number: 11116182103A	Sample number(s): 6267477-6267480 BKG: 6267477										
32a OR Potential						409		414		1	6
Batch number: 11123162401A	Sample number(s): 6267467-6267468,6267473-6267480 BKG: 6267473										
28a Moisture Content by 160.3						10.8		11.0		2	20
Moisture Content by 160.3						10.8		11.0		2	20
Moisture Content by 160.3						10.8		11.0		2	20
Batch number: 11125162401A	Sample number(s): 6267469-6267472 BKG: P264819										
Moisture Content by 160.3						6.1		6.9		13	20

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Reported: 05/20/11 at 11:16 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111171AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6267467	97	98	99	88
6267469	98	101	100	90
6267470	99	101	99	91
6267471	97	94	101	88
6267472	100	104	98	90
6267473	98	100	101	89
6267474	96	94	104	95
6267475	97	99	105	96
6267478	98	95	100	89
6267480	98	97	99	89
Blank	98	101	101	89
LCS	99	99	104	98
MS	96	94	104	95
MSD	97	99	105	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111151AA

	Toluene-d8
6267481	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111152BA

	Toluene-d8
6267467	97
6267469	97
6267470	97
6267471	97
6267472	97
6267473	97
6267474	97
6267475	97
6267478	96
6267480	97
Blank	97
LCS	97
LCSD	97
MS	97
MSD	97
Limits:	70-130

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Surrogate Quality Control

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111171AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6267481	108	98	99	104
Blank	111	101	100	103
LCS	111	100	99	107
LCSD	108	100	99	108
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11120SLB026

	N-Nitrosodimethylamine-d6
6267469	109
6267470	136
6267471	173*
6267472	103
Blank	97
LCS	100
MS	112
MSD	118
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11120SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6267467	92	95	85	90	83	87
6267468	87	89	78	84	78	82
6267469	90	90	82	86	81	84
6267470	85	87	80	83	79	87
6267471	108	112	95	103	95	103
6267472	82	81	77	78	73	80
6267473	94	97	86	92	82	83
6267474	91	93	89	90	84	81
6267475	90	94	89	89	83	83
6267477	80	81	64	76	72	71
6267478	85	86	77	80	75	82
6267479	90	92	89	90	85	90
6267480	94	97	86	93	86	90
Blank	84	88	83	88	81	73
LCS	92	95	92	93	85	78
MS	91	93	89	90	84	81
MSD	90	94	89	89	83	83
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11120SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6267467	85	77	80
6267468	84	81	85

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Surrogate Quality Control

6267469	84	81	83
6267470	71	69	85
6267471	85	79	82
6267472	75	72	76
6267473	93	84	82
6267474	93	83	81
6267475	93	86	79
6267477	83	81	81
6267478	87	85	84
6267479	82	78	83
6267480	85	80	83
Blank	92	88	88
LCS	87	81	79
MS	93	83	81
MSD	93	86	79
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11112A34B

	Trifluorotoluene-F
6267469	74
6267470	67
6267471	73
6267472	74
Blank	90
LCS	89
MS	79
MSD	73
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11117B20A

	Trifluorotoluene-F
6267481	71
Blank	71
LCS	116
LCSD	113
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111160002A

	Butyraldehyde
6267469	82
6267470	88
6267471	84
6267472	79
Blank	95
LCS	98
MS	97
MSD	103

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Surrogate Quality Control

Limits: 64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111180034A

	2-Nitro-m-xylene
6267469	108
6267470	109
6267471	109
6267472	113
Blank	110
LCS	111
LCSD	112
MS	108
MSD	104

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111200018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6267467	92	95
6267468	88	90
6267469	85	90
6267470	85	89
6267471	81	85
6267472	85	87
6267473	102	97
6267474	99	80
6267475	91	90
6267477	92	87
6267478	79	80
6267479	89	82
Blank	105	101
LCS	89	100
LCSD	95	91
MS	99	80
MSD	91	90

Limits: 53-139 45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111230023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6267480	90	94
Blank	111	135*
LCS	93	99
LCSD	129	142*
MS	107	110
MSD	119	123*

Limits: 53-139 45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 111170001A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Surrogate Quality Control

	Tetramethylene glycol
6267467	82
Blank	101
LCS	109
MS	91
MSD	88
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111170029A

	Chlorobenzene	Orthoterphenyl
6267469	59	80
6267470	58	82
6267471	55	79
6267472	57	80
Blank	93	110
LCS	91	108
MS	81	108
MSD	85	112
Limits:	37-125	47-145

Analysis Name: 19a Alcohols by 8015B
Batch number: 111180032A

	Acetone
6267469	79
6267470	75
6267471	76
6267472	77
Blank	91
LCS	90
MS	74
MSD	72
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111190001A

	Tetramethylene glycol
6267468	102
6267469	101
6267470	96
6267471	87
6267472	92
Blank	102
LCS	113
MS	106
MSD	118
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Surrogate Quality Control

Batch number: 111220022A

	n-Triacontane-d62
6267469	73
6267470	72
6267471	72
6267472	72
Blank	77
LCS	77
MS	72
MSD	76
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1243643 Sample#6267467-81

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS								Other Instructions and Notes
						*Metals EPA 6010B/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C-&-PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-007-SA8N-SB-4.5	04.22.11	0930	SOIL	NONE	4-Encores									X	X										
SL-007-SA8N-SB-4.0-5.0	04.22.11	0933	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X											X	
SL-007-SA8N-SB-9.0-10.0	04.22.11	0945	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X											X	
SL-010-SA8N-SB-4.5	04.22.11	1107	SOIL	NONE	5-Encores									X	X	X									
SL-010-SA8N-SB-4.0-5.0	04.22.11	1110	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
SL-010-SA8N-SB-9.5	04.22.11	1125	SOIL	NONE	5-Encores									X	X	X									
SL-010-SA8N-SB-9.0-10.0	04.22.11	1120	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
SL-011-SA8N-SB-4.5	04.22.11	1250	SOIL	NONE	5-Encores									X	X	X									
SL-011-SA8N-SB-4.0-5.0	04.22.11	1252	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
SL-011-SA8N-SB-9.5	04.22.11	1210	SOIL	NONE	5-Encores									X	X	X									
SL-011-SA8N-SB-9.0-10.0	04.22.11	1212	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
SL-064-SA5A-SB-3.5MS	04.22.11	1110	SOIL	NONE	12-Encores									X	X										**MS/MSD**
SL-064-SA5A-SB-3.0-4.0MS	04.22.11	1110	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X	X												**MS/MSD**
SL-166-SA5A-SS-0.0-0.5	04.22.11	1345	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X												
SL-166-SA5A-SS-0.0-0.5	04.22.11	1345	SOIL	NONE	1-Sleave									X	X										
SL-253-SA5A-SB-4.5	04.22.11	1535	SOIL	NONE	4-Encores									X	X										
SL-253-SA5A-SB-4.0-5.0	04.22.11	1530	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X												
SL-253-SA5A-SB-8.0-9.0	04.22.11	1605	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X												
DUP16-SA5A-QC-042211	04.22.11	1115	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X												
DUP16-SA5A-QC-042211	04.22.11	1115	SOIL	NONE	4-Encores									X	X										
TB-042211	04.22.11	0800	WATER	NONE	4-40 mL vials									X	X	X									TRIP BLANK

Relinquished by: (*Signature*) Date/Time: 04/22/2011 / 1700

Received for Laboratory by: (*Signature*) Tammy Helal 4/23/11 0900

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) Date/Time

Airbill No.(s): 8695 1442 0188, 8700 5932 3021

Nicole Maljovec A# 13013 Grp# 1243643 Sample# G2607467-8

From: Nicole Maljovec
Sent: Friday, April 29, 2011 9:22 AM
To: 'Bloisa, Peggy'; Hartman, Pamela
Subject: RE: 4/22: VOCs on SL-166-SA5A-SS-0.0-0.5

The attachment didn't come through. I can update the COC instead.

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Thursday, April 28, 2011 5:08 PM
To: Nicole Maljovec; Hartman, Pamela
Subject: RE: 4/22: VOCs on SL-166-SA5A-SS-0.0-0.5

Hi Nicole – please see attached revised COC for 4/22. There should be no VOCs run on sample SL-166-SA5A-SS-0.0-0.5, but the SVOCs/PAHS/PCBs should be run on the sleeve.

Thanks! Peggy

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Thursday, April 28, 2011 1:17 PM
To: Bloisa, Peggy; Hartman, Pamela
Subject: 4/22: VOCs on SL-166-SA5A-SS-0.0-0.5

Hi Peggy and Pam,
I'm a little behind right now. Can you check this COC and let me know if the VOC analysis on SL-166-SA5A-SS-0.0-0.5 is really needed? We didn't receive any encores for this location, so we assumed it was a typo.

Thanks,
Nicole

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments.

Thank you. If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

acct#13013 Cp# 1243643 Sample# 6267467-81

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs-EPA 8270C-Ltd. PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesel/Fuels EPA 8015B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Total Amino EPA 8015B	**Glycols EPA 8015A	**Alcohols EPA 8015B	Other Instructions and Notes
SL-007-SA8N-SB-4.5	04.22.11	0930	SOIL	NONE	4-Encores										X	X											
SL-007-SA8N-SB-4.0-5.0	04.22.11	0933	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-007-SA8N-SB-9.0-10.0	04.22.11	0945	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-010-SA8N-SB-4.5	04.22.11	1107	SOIL	NONE	5-Encores										X	X	X										
SL-010-SA8N-SB-4.0-5.0	04.22.11	1110	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-010-SA8N-SB-8.5	04.22.11	1125	SOIL	NONE	5-Encores										X	X	X										
SL-010-SA8N-SB-8.0-10.0	04.22.11	1120	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-011-SA8N-SB-4.5	04.22.11	1250	SOIL	NONE	5-Encores										X	X	X										
SL-011-SA8N-SB-4.0-5.0	04.22.11	1252	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-011-SA8N-SB-9.5	04.22.11	1210	SOIL	NONE	5-Encores										X	X	X										
SL-011-SA8N-SB-9.0-10.0	04.22.11	1212	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-064-SA5A-SB-3.5MS	04.22.11	1110	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-064-SA5A-SB-3.0-4.0MS	04.22.11	1110	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X	X														MS/MSD
SL-166-SA5A-SS-0.0-0.5	04.22.11	1345	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-166-SA5A-SS-0.0-0.5	04.22.11	1345	SOIL	NONE	1-Sleeve									~~X~~	~~X~~	~~X~~											
SL-253-SA5A-SB-4.5	04.22.11	1535	SOIL	NONE	4-Encores										X	X											
SL-253-SA5A-SB-4.0-5.0	04.22.11	1530	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-253-SA5A-SB-8.0-9.0	04.22.11	1605	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
DUP16-SA5A-QC-042211	04.22.11	1115	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
DUP16-SA5A-QC-042211	04.22.11	1115	SOIL	NONE	4-Encores										X	X											
TB-042211	04.22.11	0800	WATER	NONE	4-40 mL vials										X	X	X										TRIP BLANK

Other Instructions and Notes: Amended COC

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/22/2011 / 1700	Tammy Helal 4/23/11 0900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1442 0188, 8700 5932 3021	

The volatiles analysis was removed from sample SL-166-SA5A-SS-0.0-0.5 per PB.

NLM 4/29/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/09/2011
Group Number: 1246089
SDG: DX065
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-222-SA5A-SB-3.5-4.5 Soil	6281729
SL-222-SA5A-SB-3.5-4.5MS Soil	6281730
SL-222-SA5A-SB-3.5-4.5MSD Soil	6281731

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281729
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-222-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281729
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	274	B	0.122	5.32	1
11031	1234678-HpCDF	67562-39-4	109	B	0.0579	5.32	1
11031	1234789-HpCDF	55673-89-7	18.8	B	0.0674	5.32	1
11031	123478-HxCDD	39227-28-6	7.75	B	0.0519	5.32	1
11031	123478-HxCDF	70648-26-9	30.4	B	0.0621	5.32	1
11031	123678-HxCDD	57653-85-7	18.2	B	0.0511	5.32	1
11031	123678-HxCDF	57117-44-9	21.0	B	0.0621	5.32	1
11031	123789-HxCDD	19408-74-3	14.1	B	0.0505	5.32	1
11031	123789-HxCDF	72918-21-9	10.2	B	0.0687	5.32	1
11031	12378-PeCDD	40321-76-4	6.42	B	0.0704	5.32	1
11031	12378-PeCDF	57117-41-6	15.7	B	0.0424	5.32	1
11031	234678-HxCDF	60851-34-5	25.5	B	0.0622	5.32	1
11031	23478-PeCDF	57117-31-4	17.5	B	0.0392	5.32	1
11031	2378-TCDD	1746-01-6	1.35	B	0.0903	1.06	1
11031	2378-TCDF	51207-31-9	9.92		0.130	1.06	1
11031	OCDD	3268-87-9	1,020	B	0.0778	10.6	1
11031	OCDF	39001-02-0	112	B	0.0468	10.6	1
11650	2378-TCDF-Conf	51207-31-9	10.9	B	0.0489	1.06	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-2378-TCDF-Conf	84	24 - 169
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281729
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281729
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21BKG

General Sample Comments

State of California Lab Certification No. 2501
This sample was originally submitted to the laboratory on 3/31/11 at 09:15. We received authorization for further testing on 5/09/11.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/19/2011 20:20	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11137001	05/25/2011 00:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281730
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281730
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	358	B	0.128	5.24	1
11031	1234678-HpCDF	67562-39-4	189	B	0.0797	5.24	1
11031	1234789-HpCDF	55673-89-7	114	B	0.0986	5.24	1
11031	123478-HxCDD	39227-28-6	105	B	0.0807	5.24	1
11031	123478-HxCDF	70648-26-9	125	B	0.0806	5.24	1
11031	123678-HxCDD	57653-85-7	113	B	0.0818	5.24	1
11031	123678-HxCDF	57117-44-9	118	B	0.0789	5.24	1
11031	123789-HxCDD	19408-74-3	110	B	0.0788	5.24	1
11031	123789-HxCDF	72918-21-9	110	B	0.0893	5.24	1
11031	12378-PeCDD	40321-76-4	108	B	0.113	5.24	1
11031	12378-PeCDF	57117-41-6	110	B	0.0524	5.24	1
11031	234678-HxCDF	60851-34-5	123	B	0.0785	5.24	1
11031	23478-PeCDF	57117-31-4	111	B	0.0489	5.24	1
11031	2378-TCDD	1746-01-6	20.8	B	0.118	1.05	1
11031	2378-TCDF	51207-31-9	28.8		0.156	1.05	1
11031	OCDD	3268-87-9	1,150	B	0.130	10.5	1
11031	OCDF	39001-02-0	290	B	0.0972	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281730
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281730
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MS

General Sample Comments

State of California Lab Certification No. 2501
This sample was originally submitted to the laboratory on 3/31/11 at 09:15. We received authorization for further testing on 5/09/11.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/19/2011 21:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281731
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MSD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281731
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MSD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	386	B	0.141	5.43	1
11031	1234678-HpCDF	67562-39-4	209	B	0.0829	5.43	1
11031	1234789-HpCDF	55673-89-7	121	B	0.100	5.43	1
11031	123478-HxCDD	39227-28-6	114	B	0.107	5.43	1
11031	123478-HxCDF	70648-26-9	140	B	0.0975	5.43	1
11031	123678-HxCDD	57653-85-7	122	B	0.105	5.43	1
11031	123678-HxCDF	57117-44-9	124	B	0.0901	5.43	1
11031	123789-HxCDD	19408-74-3	116	B	0.101	5.43	1
11031	123789-HxCDF	72918-21-9	114	B	0.115	5.43	1
11031	12378-PeCDD	40321-76-4	114	B	0.106	5.43	1
11031	12378-PeCDF	57117-41-6	119	B	0.0579	5.43	1
11031	234678-HxCDF	60851-34-5	134	B	0.0931	5.43	1
11031	23478-PeCDF	57117-31-4	119	B	0.0548	5.43	1
11031	2378-TCDD	1746-01-6	21.4	B	0.104	1.09	1
11031	2378-TCDF	51207-31-9	31.3		0.150	1.09	1
11031	OCDD	3268-87-9	1,340	B	0.121	10.9	1
11031	OCDF	39001-02-0	312	B	0.0886	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281731
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MSD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281731
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MSD*

General Sample Comments

State of California Lab Certification No. 2501
This sample was originally submitted to the laboratory on 3/31/11 at 09:15. We received authorization for further testing on 5/09/11.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/19/2011 22:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246089
Reported: 06/01/11 at 07:08 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11102162401A	Sample number(s): 6281729-6281731								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11137001	Sample number(s): 6281729-6281731								
2378-TCDF-Conf	0.0193 J	0.0182	1.00	ng/kg					
2378-TCDD	0.0449 J	0.0174	1.00	ng/kg	95		67-158		
2378-TCDF	0.0193 U	0.0193	1.00	ng/kg	103		75-158		
12378-PeCDD	0.0632 J	0.0228	5.00	ng/kg	95		70-142		
12378-PeCDF	0.0253 J	0.0128	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0780 J	0.0121	5.00	ng/kg	91		68-160		
123478-HxCDD	0.0292 J	0.0186	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0513 J	0.0190	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0377 J	0.0186	5.00	ng/kg	95		64-162		
123478-HxCDF	0.0716 J	0.0143	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0503 J	0.0125	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0917 J	0.0156	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0914 J	0.0127	5.00	ng/kg	98		70-156		
1234678-HpCDD	0.254 J	0.0262	5.00	ng/kg	96		70-140		
1234678-HpCDF	0.188 J	0.0100	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.106 J	0.0179	5.00	ng/kg	96		78-138		
OCDD	0.399 J	0.0224	10.0	ng/kg	95		78-144		
OCDF	0.292 J	0.0360	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11102162401A	Sample number(s): 6281729-6281731 BKG: P242769								
Moisture Content by 160.3						13.3	13.7	3	20
Batch number: 11137001	Sample number(s): 6281729-6281731 UNSPK: 6281729								
2378-TCDD	93	93	67-158	3	25				
2378-TCDF	90	98	75-158	8	25				
12378-PeCDD	97	99	70-142	5	25				
12378-PeCDF	91	95	80-134	7	25				
23478-PeCDF	89	93	68-160	7	25				
123478-HxCDD	93	98	70-164	8	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246089
Reported: 06/01/11 at 07:08 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
123678-HxCDD	91	96	76-134	8	25				
123789-HxCDD	91	94	64-162	5	25				
123478-HxCDF	91	100	72-134	11	25				
123678-HxCDF	92	95	84-130	5	25				
123789-HxCDF	95	95	78-130	3	25				
234678-HxCDF	93	100	70-156	8	25				
1234678-HpCDD	80	103	70-140	8	25				
1234678-HpCDF	76*	93	82-122	10	25				
1234789-HpCDF	91	94	78-138	6	25				
OCDD	61 (2)	146 (2)	78-144	15	25				
OCDF	85	92	63-170	7	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11137001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6281729	84	85	78	78	84	85
6281730	82	83	80	79	83	84
6281731	81	82	82	82	81	79
Blank	83	89	86	96	90	91
MS	82	83	80	79	83	84
MSD	81	82	82	82	81	79
OPR	72	74	74	82	76	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6281729	78	83	78	94	85	81
6281730	77	79	69	96	82	83
6281731	76	76	68	94	81	81
Blank	113	84	82	107	92	96
MS	77	79	69	96	82	83
MSD	76	76	68	94	81	81
OPR	96	67	65	95	78	81
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6281729	83	85	83	80	85	85
6281730	83	85	81	72	83	82
6281731	80	83	78	70	83	82
Blank	96	96	100	102	80	92

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246089
Reported: 06/01/11 at 07:08 AM

Surrogate Quality Control

MS	83	85	81	72	83	82
MSD	80	83	78	70	83	82
OPR	82	82	82	82	68	79
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6281729	84
6281730	
6281731	
Blank	77
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1239812 6244306-76
1246089 6281729-31

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For low chrome products, lab will reanalyze pH and CrVI § Modified by EPA 1613, using perfluorinated cut in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & Perchlorate EPA 6850	*PCBs/PCTs EPA 8082	*Chlorinated Herbicides EPA 8151A	*Perchlorate EPA 314.0	*Total Cyanide EPA 7196A	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs EPA 8260B §	1,4-Dioxane EPA 8260B §	TPH-GRO EPA 8015B §	*TPH-DRO EPA 8015B Mod.	*Nitrate EPA 300.0	*Perchlorate EPA 6850A	*Hexavalent Chromium EPA 7196A	*Sulfide EPA 9034	*Cyanide EPA 9012B	*Total Organic Carbon EPA 9060A	*Nitrate EPA 6850B	*Nitrate EPA 6010B	
Sampler's Signature:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
DUP-11-SA5A-QC-033011	03.30.11	1002	SOIL	NONE	5-Encores/4-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
DUP-12-SA5A-QC-033011	03.30.11	1111	SOIL	NONE	4-Encores/2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X											
SL-082-SA5A-SB-4.5	03.30.11	1556	SOIL	NONE	5-Encores										X	X	X										
SL-082-SA5A-SB-4.0-5.0	03.30.11	1603	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X		
SL-083-SA5A-SB-4.5	03.30.11	1503	SOIL	NONE	5-Encores										X	X	X										
SL-083-SA5A-SB-4.0-5.0	03.30.11	1505	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X		
SL-085-SA5A-SB-9.5	03.30.11	1511	SOIL	NONE	5-Encores										X	X	X										
SL-085-SA5A-SB-9.0-10.0	03.30.11	1513	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X		
SL-090-SA5A-SB-4.5	03.30.11	1100	SOIL	NONE	5-Encores										X	X	X										
SL-090-SA5A-SB-4.0-5.0	03.30.11	1105	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X		
SL-093-SA5A-SB-4.0	03.30.11	1215	SOIL	NONE	5-Encores										X	X	X										
SL-093-SA5A-SB-3.5-4.5	03.30.11	1220	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X		
SL-222-SA5A-SB-4.0MS	03.30.11	0952	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-222-SA5A-SB-3.5-4.5MS	03.30.11	0957	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X		MS/MSD
SL-257-SA5A-SB-3.0	03.30.11	0840	SOIL	NONE	5-Encores										X	X	X										
SL-257-SA5A-SB-2.5-3.5	03.30.11	0845	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X		
TB-033011	03.30.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time: 03/30/2011 / 1705	Received for Laboratory by: (Signature): Barry Berlach 3/31/11 915																									Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s): 8695 1432 4176,4156																									

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/17/2011
Group Number: 1247140
SDG: DE151
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-042-SA5A-SB-3.5-4.5 Soil	6288929
SL-042-SA5A-SB-3.5-4.5MS Soil	6288930
SL-042-SA5A-SB-3.5-4.5MSD Soil	6288931
SL-042-SA5A-SB-3.5-4.5DUP Soil	6288932
DUP-17-SA5A-QC-051611 Soil	6288933
SL-167-SA5A-SB-1.0-2.0 Soil	6288934
EB15-SA5A-SB-051611 Water	6288935
SL-002-SA5DN-SB-4.0-5.0 Soil	6288936
SL-002-SA5DN-SB-9.0-10.0 Soil	6288937
SL-003-SA5DN-SB-0.5-1.5 Soil	6288938
SL-003-SA5DN-SB-8.0-9.0 Soil	6288939
SL-004-SA5DN-SB-3.5-4.5 Soil	6288940
SL-004-SA5DN-SB-9.0-10.0 Soil	6288941
TB-051611 Water	6288942

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	J	7.1	8.5		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.94
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.94
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.94
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.94
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.94
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.94
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.94
06192	Methylene Chloride	75-09-2	3.7	J	0.26	4.3		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.94

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.94
06192	Toluene	108-88-3	0.12	J	0.09	4.3		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.66
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1

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Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.5	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	3.2		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,800		5.51	21.9		1
07914	Boron	7440-42-8	8.21		0.975	5.48		1
01650	Calcium	7440-70-2	3,050		6.71	21.9		1
01654	Iron	7439-89-6	28,200		5.16	21.9		1
01656	Lithium	7439-93-2	32.1		0.24	2.2		1
01657	Magnesium	7439-95-4	5,730		2.78	11.0		1
06958	Manganese	7439-96-5	252		0.0854	0.548		1
10145	Phosphorus	7723-14-0	322		0.613	11.0		1
01662	Potassium	7440-09-7	1,810		19.7	54.8		1
01667	Sodium	7440-23-5	112		40.8	110		1
07968	Strontium	7440-24-6	22.9		0.0679	0.548		1
06969	Tin	7440-31-5	3.40	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,450		0.416	1.10		1
10146	Zirconium	7440-67-7	5.24	J	0.920	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.312		0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.05		0.0902	0.451		2
06126	Barium	7440-39-3	120		0.122	0.451		2
06127	Beryllium	7440-41-7	1.11		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.0923	J	0.0451	0.113		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	28.3		0.135	0.451		2
06132	Cobalt	7440-48-4	9.21		0.0226	0.113		2
06133	Copper	7440-50-8	11.1		0.0744	0.451		2
06135	Lead	7439-92-1	8.57		0.0117	0.226		2
06138	Molybdenum	7439-98-7	1.50		0.0564	0.113		2
06139	Nickel	7440-02-0	18.9		0.113	0.451		2
06141	Selenium	7782-49-2	0.248	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.833		0.0135	0.113		2
06145	Thallium	7440-28-0	0.295		0.0338	0.113		2
06148	Vanadium	7440-62-2	55.1		0.0248	0.113		2
06149	Zinc	7440-66-6	52.4		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.91	U	0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	389		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.53		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-042-SA5A-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 16:56	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 15:28	Jason M Long	21.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:07	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:04	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:05	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 05:17	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 18:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 12:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 07:54	Choon Y Tian	2

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Sample Description: **SL-042-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 13:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 11:53	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 19:56	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	200	7.3	8.7		0.96
06192	Benzene	71-43-2	25	0.11	4.4		0.96
06192	Bromobenzene	108-86-1	24	0.14	4.4		0.96
06192	Bromochloromethane	74-97-5	29	0.36	4.4		0.96
06192	Bromodichloromethane	75-27-4	22	0.09	4.4		0.96
06192	Bromoform	75-25-2	21	0.44	4.4		0.96
06192	Bromomethane	74-83-9	15	0.27	4.4		0.96
06192	2-Butanone	78-93-3	180	1.3	8.7		0.96
06192	n-Butylbenzene	104-51-8	22	0.13	4.4		0.96
06192	sec-Butylbenzene	135-98-8	25	0.06	4.4		0.96
06192	tert-Butylbenzene	98-06-6	24	0.17	4.4		0.96
06192	Carbon Tetrachloride	56-23-5	26	0.15	4.4		0.96
06192	Chlorobenzene	108-90-7	23	0.12	4.4		0.96
06192	Chloroethane	75-00-3	14	0.14	4.4		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.33	4.4		0.96
06192	Chloroform	67-66-3	24	0.13	4.4		0.96
06192	Chloromethane	74-87-3	17	0.36	4.4		0.96
06192	2-Chlorotoluene	95-49-8	23	0.15	4.4		0.96
06192	4-Chlorotoluene	106-43-4	22	0.15	4.4		0.96
06192	Chlorotrifluoroethene	79-38-9	16	0.49	4.9		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.76	4.4		0.96
06192	Dibromochloromethane	124-48-1	22	0.22	4.4		0.96
06192	1,2-Dibromoethane	106-93-4	21	0.19	4.4		0.96
06192	Dibromomethane	74-95-3	21	0.26	4.4		0.96
06192	1,2-Dichlorobenzene	95-50-1	21	0.1	4.4		0.96
06192	1,3-Dichlorobenzene	541-73-1	23	0.13	4.4		0.96
06192	1,4-Dichlorobenzene	106-46-7	22	0.17	4.4		0.96
06192	Dichlorodifluoromethane	75-71-8	17	0.13	4.4		0.96
06192	1,1-Dichloroethane	75-34-3	25	0.11	4.4		0.96
06192	1,2-Dichloroethane	107-06-2	22	0.16	4.4		0.96
06192	1,1-Dichloroethene	75-35-4	20	0.42	4.4		0.96
06192	cis-1,2-Dichloroethene	156-59-2	23	0.21	4.4		0.96
06192	trans-1,2-Dichloroethene	156-60-5	24	0.13	4.4		0.96
06192	1,2-Dichloropropane	78-87-5	24	0.19	4.4		0.96
06192	1,3-Dichloropropane	142-28-9	21	0.09	4.4		0.96
06192	2,2-Dichloropropane	594-20-7	23	0.19	4.4		0.96
06192	1,1-Dichloropropene	563-58-6	25	0.14	4.4		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.17	4.4		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.19	4.4		0.96
06192	Ethylbenzene	100-41-4	23	0.06	4.4		0.96
06192	Freon 113	76-13-1	22	0.12	4.4		0.96
06192	Freon 133a	75-88-7	17	0.49	4.9		0.86
06192	Hexachlorobutadiene	87-68-3	24	0.15	4.4		0.96
06192	2-Hexanone	591-78-6	110	1.7	8.7		0.96
06192	Isopropylbenzene	98-82-8	24	0.06	4.4		0.96
06192	p-Isopropyltoluene	99-87-6	24	0.12	4.4		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.23	4.4		0.96
06192	4-Methyl-2-pentanone	108-10-1	91	0.42	8.7		0.96
06192	Methylene Chloride	75-09-2	22	0.26	4.4		0.96
06192	n-Propylbenzene	103-65-1	25	0.08	4.4		0.96

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	21		0.11	4.4		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	23		0.12	4.4		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	20		0.25	4.4		0.96
06192	Tetrachloroethene	127-18-4	27		0.22	4.4		0.96
06192	Toluene	108-88-3	24		0.09	4.4		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	18		0.15	4.4		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	17		0.20	4.4		0.96
06192	1,1,1-Trichloroethane	71-55-6	25		0.22	4.4		0.96
06192	1,1,2-Trichloroethane	79-00-5	21		0.29	4.4		0.96
06192	Trichloroethene	79-01-6	24		0.16	4.4		0.96
06192	Trichlorofluoromethane	75-69-4	19		0.32	4.4		0.96
06192	1,2,3-Trichloropropane	96-18-4	21		0.36	4.4		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	23		0.44	4.4		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	24		0.11	4.4		0.96
06192	Vinyl Chloride	75-01-4	17		0.22	4.4		0.96
06192	m+p-Xylene	179601-23-1	46		0.19	4.4		0.96
06192	o-Xylene	95-47-6	22		0.19	4.4		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	240		5.2	16		23.02
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,800		19	190		1
04688	Aniline	62-53-3	1,600		190	560		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	3,000	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,700		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	1,200		190	560		1
04688	Benzyl alcohol	100-51-6	1,800		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700		19	190		1
04688	Carbazole	86-74-8	1,700		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		38	190		1
04688	4-Chloroaniline	106-47-8	1,400		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,700		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190		1
04688	Chrysene	218-01-9	1,700		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,800		19	190		1

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Sample Description: **SL-042-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

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Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,600		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300		110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800		19	190		1
04688	Diethylphthalate	84-66-2	1,700		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800		38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900		38	190		1
04688	Dimethylphthalate	131-11-3	1,800		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000		190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,100	J	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		19	380		1
04688	Fluoranthene	206-44-0	1,800		19	190		1
04688	Fluorene	86-73-7	1,700		19	190		1
04688	Hexachlorobenzene	118-74-1	1,800		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,600		75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,300		190	560		1
04688	Hexachloroethane	67-72-1	1,500		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		19	190		1
04688	Isophorone	78-59-1	1,800		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600		19	190		1
04688	2-Methylphenol	95-48-7	1,800		38	190		1
04688	4-Methylphenol	106-44-5	1,900		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,700		19	190		1
04688	2-Nitroaniline	88-74-4	1,800		19	190		1
04688	3-Nitroaniline	99-09-2	1,700		38	190		1
04688	4-Nitroaniline	100-01-6	1,500		75	190		1
04688	Nitrobenzene	98-95-3	1,800		19	190		1
04688	2-Nitrophenol	88-75-5	1,800		19	190		1
04688	4-Nitrophenol	100-02-7	1,600		190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,800		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,800		19	190		1
04688	Pentachlorophenol	87-86-5	1,300		190	560		1
04688	Phenanthrene	85-01-8	1,800		19	190		1
04688	Phenol	108-95-2	1,800		19	190		1
04688	Pyrene	129-00-0	1,900		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		38	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-042-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL042 SDG#: DE151-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,800		38	190		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol								
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35		0.76	1.9		1
10138	Acenaphthylene	208-96-8	34		0.38	1.9		1
10138	Anthracene	120-12-7	36		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	38		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	38		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	42		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	42		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	38		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	42		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	41		6.8	20		1
10138	Chrysene	218-01-9	37		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	42		0.76	1.9		1
10138	Diethylphthalate	84-66-2	38		6.8	20		1
10138	Dimethylphthalate	131-11-3	37		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	50		6.8	20		1
10138	Fluoranthene	206-44-0	39		0.76	1.9		1
10138	Fluorene	86-73-7	37		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	42		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	37		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	33		0.76	1.9		1
10138	Naphthalene	91-20-3	37		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	47		6.8	20		1
10138	Phenanthrene	85-01-8	35		0.76	1.9		1
10138	Pyrene	129-00-0	37		0.76	1.9		1
Naphthalene was detected in the method blank at a concentration of 1.1 ug/l. The blank value was not subtracted from the analytical result.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	18		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	6.1		0.38	1.9		1
10225	PCB-1260	11096-82-5	21		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

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Sample Description: **SL-042-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
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SL042 SDG#: DE151-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	42,500	5.51	21.9		1
07914	Boron	7440-42-8	216	0.975	5.48		1
01650	Calcium	7440-70-2	3,510	6.71	21.9		1
01654	Iron	7439-89-6	30,600	25.8	110		5
01656	Lithium	7439-93-2	146	0.24	2.2		1
01657	Magnesium	7439-95-4	6,270	2.78	11.0		1
06958	Manganese	7439-96-5	333	0.0854	0.548		1
10145	Phosphorus	7723-14-0	427	0.613	11.0		1
01662	Potassium	7440-09-7	3,010	19.7	54.8		1
01667	Sodium	7440-23-5	1,210	40.8	110		1
07968	Strontium	7440-24-6	135	0.0679	0.548		1
06969	Tin	7440-31-5	380	1.10	11.0		1
06970	Titanium	7440-32-6	1,720	0.416	1.10		1
10146	Zirconium	7440-67-7	108	0.920	5.48		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.16	0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	13.6	0.0876	0.438		2
06126	Barium	7440-39-3	147	0.118	0.438		2
06127	Beryllium	7440-41-7	2.24	0.0175	0.110		2
06128	Cadmium	7440-43-9	1.39	0.0438	0.110		2
06131	Chromium	7440-47-3	46.9	0.131	0.438		2
06132	Cobalt	7440-48-4	78.9	0.0219	0.110		2
06133	Copper	7440-50-8	24.5	0.0723	0.438		2
06135	Lead	7439-92-1	14.2	0.0114	0.219		2
06138	Molybdenum	7439-98-7	16.5	0.0548	0.110		2
06139	Nickel	7440-02-0	35.2	0.110	0.438		2
06141	Selenium	7782-49-2	2.82	0.0438	0.438		2
06142	Silver	7440-22-4	14.4	0.0131	0.110		2
06145	Thallium	7440-28-0	0.814	0.0329	0.110		2
06148	Vanadium	7440-62-2	79.2	0.0241	0.110		2
06149	Zinc	7440-66-6	57.1	0.613	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.172	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	508	10.3	34.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	42.5	1.1	5.7		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-042-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-042-SA5A-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 17:18	Chelsea B Eastep	0.96
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 18:03	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 15:48	Jason M Long	23.02
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:13	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:09	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 05:42	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 18:48	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 12:22	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 11:42	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-042-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 07:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 13:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 12:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 20:08	Parker D Lindstrom	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	180	7.1	8.5		0.93
06192	Benzene	71-43-2	24	0.11	4.3		0.93
06192	Bromobenzene	108-86-1	23	0.14	4.3		0.93
06192	Bromochloromethane	74-97-5	27	0.35	4.3		0.93
06192	Bromodichloromethane	75-27-4	22	0.09	4.3		0.93
06192	Bromoform	75-25-2	21	0.43	4.3		0.93
06192	Bromomethane	74-83-9	14	0.27	4.3		0.93
06192	2-Butanone	78-93-3	170	1.3	8.5		0.93
06192	n-Butylbenzene	104-51-8	22	0.13	4.3		0.93
06192	sec-Butylbenzene	135-98-8	24	0.06	4.3		0.93
06192	tert-Butylbenzene	98-06-6	23	0.17	4.3		0.93
06192	Carbon Tetrachloride	56-23-5	25	0.15	4.3		0.93
06192	Chlorobenzene	108-90-7	22	0.12	4.3		0.93
06192	Chloroethane	75-00-3	13	0.14	4.3		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.32	4.3		0.93
06192	Chloroform	67-66-3	23	0.13	4.3		0.93
06192	Chloromethane	74-87-3	17	0.35	4.3		0.93
06192	2-Chlorotoluene	95-49-8	22	0.15	4.3		0.93
06192	4-Chlorotoluene	106-43-4	21	0.15	4.3		0.93
06192	Chlorotrifluoroethene	79-38-9	20	0.62	6.2		1.09
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.74	4.3		0.93
06192	Dibromochloromethane	124-48-1	21	0.21	4.3		0.93
06192	1,2-Dibromoethane	106-93-4	20	0.18	4.3		0.93
06192	Dibromomethane	74-95-3	20	0.26	4.3		0.93
06192	1,2-Dichlorobenzene	95-50-1	21	0.1	4.3		0.93
06192	1,3-Dichlorobenzene	541-73-1	22	0.13	4.3		0.93
06192	1,4-Dichlorobenzene	106-46-7	21	0.17	4.3		0.93
06192	Dichlorodifluoromethane	75-71-8	17	0.13	4.3		0.93
06192	1,1-Dichloroethane	75-34-3	24	0.11	4.3		0.93
06192	1,2-Dichloroethane	107-06-2	21	0.16	4.3		0.93
06192	1,1-Dichloroethene	75-35-4	18	0.41	4.3		0.93
06192	cis-1,2-Dichloroethene	156-59-2	23	0.20	4.3		0.93
06192	trans-1,2-Dichloroethene	156-60-5	23	0.13	4.3		0.93
06192	1,2-Dichloropropane	78-87-5	23	0.18	4.3		0.93
06192	1,3-Dichloropropane	142-28-9	21	0.09	4.3		0.93
06192	2,2-Dichloropropane	594-20-7	22	0.18	4.3		0.93
06192	1,1-Dichloropropene	563-58-6	24	0.14	4.3		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.17	4.3		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.18	4.3		0.93
06192	Ethylbenzene	100-41-4	22	0.06	4.3		0.93
06192	Freon 113	76-13-1	21	0.12	4.3		0.93
06192	Freon 133a	75-88-7	21	0.62	6.2		1.09
06192	Hexachlorobutadiene	87-68-3	24	0.15	4.3		0.93
06192	2-Hexanone	591-78-6	100	1.7	8.5		0.93
06192	Isopropylbenzene	98-82-8	23	0.06	4.3		0.93
06192	p-Isopropyltoluene	99-87-6	23	0.12	4.3		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.22	4.3		0.93
06192	4-Methyl-2-pentanone	108-10-1	91	0.41	8.5		0.93
06192	Methylene Chloride	75-09-2	21	0.26	4.3		0.93
06192	n-Propylbenzene	103-65-1	24	0.07	4.3		0.93

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Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	20		0.11	4.3		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	22		0.12	4.3		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	20		0.24	4.3		0.93
06192	Tetrachloroethene	127-18-4	26		0.21	4.3		0.93
06192	Toluene	108-88-3	23		0.09	4.3		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	19		0.15	4.3		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	18		0.19	4.3		0.93
06192	1,1,1-Trichloroethane	71-55-6	23		0.21	4.3		0.93
06192	1,1,2-Trichloroethane	79-00-5	21		0.29	4.3		0.93
06192	Trichloroethene	79-01-6	23		0.16	4.3		0.93
06192	Trichlorofluoromethane	75-69-4	18		0.31	4.3		0.93
06192	1,2,3-Trichloropropane	96-18-4	21		0.35	4.3		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	22		0.43	4.3		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	23		0.11	4.3		0.93
06192	Vinyl Chloride	75-01-4	17		0.21	4.3		0.93
06192	m+p-Xylene	179601-23-1	44		0.18	4.3		0.93
06192	o-Xylene	95-47-6	21		0.18	4.3		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	240		5.4	16		23.63
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,900		19	190		1
04688	Aniline	62-53-3	1,400		190	560		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	2,100	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	980		190	560		1
04688	Benzyl alcohol	100-51-6	1,700		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		38	190		1
04688	4-Chloroaniline	106-47-8	1,300		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,700		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190		1
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		19	190		1
04688	Dibenzofuran	132-64-9	1,800		19	190		1

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Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,500		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800		19	190		1
04688	Diethylphthalate	84-66-2	1,700		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,700		38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900		38	190		1
04688	Dimethylphthalate	131-11-3	1,800		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	730		190	560		1
04688	2,4-Dinitrophenol	51-28-5	670	J	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		19	380		1
04688	Fluoranthene	206-44-0	1,800		19	190		1
04688	Fluorene	86-73-7	1,800		19	190		1
04688	Hexachlorobenzene	118-74-1	1,800		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,600		75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,300		190	560		1
04688	Hexachloroethane	67-72-1	1,400		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		19	190		1
04688	Isophorone	78-59-1	1,700		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600		19	190		1
04688	2-Methylphenol	95-48-7	1,700		38	190		1
04688	4-Methylphenol	106-44-5	1,800		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		19	190		1
04688	2-Nitroaniline	88-74-4	1,900		19	190		1
04688	3-Nitroaniline	99-09-2	1,800		38	190		1
04688	4-Nitroaniline	100-01-6	1,500		75	190		1
04688	Nitrobenzene	98-95-3	1,700		19	190		1
04688	2-Nitrophenol	88-75-5	1,800		19	190		1
04688	4-Nitrophenol	100-02-7	1,600		190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,700		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,900		19	190		1
04688	Pentachlorophenol	87-86-5	1,100		190	560		1
04688	Phenanthrene	85-01-8	1,800		19	190		1
04688	Phenol	108-95-2	1,800		19	190		1
04688	Pyrene	129-00-0	2,000		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		38	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-042-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4,6-Trichlorophenol	88-06-2	1,800		38	190		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol								
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35		0.76	1.9		1
10138	Acenaphthylene	208-96-8	33		0.38	1.9		1
10138	Anthracene	120-12-7	36		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	39		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	39		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	42		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	43		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	39		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	44		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	41		6.8	20		1
10138	Chrysene	218-01-9	40		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	43		0.76	1.9		1
10138	Diethylphthalate	84-66-2	36		6.8	20		1
10138	Dimethylphthalate	131-11-3	36		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51		6.8	20		1
10138	Fluoranthene	206-44-0	40		0.76	1.9		1
10138	Fluorene	86-73-7	36		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	42		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	35		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	31		0.76	1.9		1
10138	Naphthalene	91-20-3	32		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	30		0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	47		6.8	20		1
10138	Phenanthrene	85-01-8	36		0.76	1.9		1
10138	Pyrene	129-00-0	38		0.76	1.9		1
Naphthalene was detected in the method blank at a concentration of 1.1 ug/l. The blank value was not subtracted from the analytical result.								
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	19		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	6.3		0.38	1.9		1
10225	PCB-1260	11096-82-5	22		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

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Sample Description: **SL-042-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	40,800	5.67	22.6		1
07914	Boron	7440-42-8	226	1.00	5.64		1
01650	Calcium	7440-70-2	3,570	6.91	22.6		1
01654	Iron	7439-89-6	29,800	5.31	22.6		1
01656	Lithium	7439-93-2	148	0.25	2.3		1
01657	Magnesium	7439-95-4	6,200	2.86	11.3		1
06958	Manganese	7439-96-5	334	0.0880	0.564		1
10145	Phosphorus	7723-14-0	420	0.631	11.3		1
01662	Potassium	7440-09-7	2,950	20.3	56.4		1
01667	Sodium	7440-23-5	1,240	42.1	113		1
07968	Strontium	7440-24-6	137	0.0699	0.564		1
06969	Tin	7440-31-5	398	1.13	11.3		1
06970	Titanium	7440-32-6	1,720	0.429	1.13		1
10146	Zirconium	7440-67-7	112	0.947	5.64		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.24	0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	13.9	0.0902	0.451		2
06126	Barium	7440-39-3	151	0.122	0.451		2
06127	Beryllium	7440-41-7	2.38	0.0180	0.113		2
06128	Cadmium	7440-43-9	1.49	0.0451	0.113		2
06131	Chromium	7440-47-3	44.7	0.135	0.451		2
06132	Cobalt	7440-48-4	75.5	0.0226	0.113		2
06133	Copper	7440-50-8	24.3	0.0744	0.451		2
06135	Lead	7439-92-1	14.5	0.0117	0.226		2
06138	Molybdenum	7439-98-7	16.2	0.0564	0.113		2
06139	Nickel	7440-02-0	35.0	0.113	0.451		2
06141	Selenium	7782-49-2	2.80	0.0451	0.451		2
06142	Silver	7440-22-4	14.2	0.0135	0.113		2
06145	Thallium	7440-28-0	0.860	0.0338	0.113		2
06148	Vanadium	7440-62-2	78.7	0.0248	0.113		2
06149	Zinc	7440-66-6	56.3	0.631	3.38		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.193	0.0032	0.112		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1

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Sample Description: **SL-042-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-042-SA5A-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 17:41	Chelsea B Eastep	0.93
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 18:25	Chelsea B Eastep	1.09
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 16:08	Jason M Long	23.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:17	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:15	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 06:07	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 19:20	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 12:40	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288932
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	35,300		5.62	22.3		1
07914	Boron	7440-42-8	8.66		0.994	5.58		1
01650	Calcium	7440-70-2	2,950		6.84	22.3		1
01654	Iron	7439-89-6	27,900		5.26	22.3		1
01656	Lithium	7439-93-2	31.5		0.25	2.2		1
01657	Magnesium	7439-95-4	5,460		2.84	11.2		1
06958	Manganese	7439-96-5	196		0.0871	0.558		1
10145	Phosphorus	7723-14-0	291		0.625	11.2		1
01662	Potassium	7440-09-7	1,420		20.1	55.8		1
01667	Sodium	7440-23-5	109	J	41.6	112		1
07968	Strontium	7440-24-6	22.6		0.0692	0.558		1
06969	Tin	7440-31-5	3.28	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,370		0.424	1.12		1
10146	Zirconium	7440-67-7	5.63		0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.239		0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.57		0.0876	0.438		2
06126	Barium	7440-39-3	97.2		0.118	0.438		2
06127	Beryllium	7440-41-7	0.986		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.0438	U	0.0438	0.110		2
06131	Chromium	7440-47-3	25.6		0.131	0.438		2
06132	Cobalt	7440-48-4	6.33		0.0219	0.110		2
06133	Copper	7440-50-8	7.82		0.0723	0.438		2
06135	Lead	7439-92-1	7.77		0.0114	0.219		2
06138	Molybdenum	7439-98-7	1.70		0.0548	0.110		2
06139	Nickel	7440-02-0	15.5		0.110	0.438		2
06141	Selenium	7782-49-2	0.232	J	0.0438	0.438		2
06142	Silver	7440-22-4	0.186		0.0131	0.110		2
06145	Thallium	7440-28-0	0.237		0.0329	0.110		2
06148	Vanadium	7440-62-2	50.3		0.0241	0.110		2
06149	Zinc	7440-66-6	43.1		0.613	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0050	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.91	U	0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5A-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288932
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	400	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	12.0	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288932
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 07:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 13:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 12:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 20:39	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.97
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.97
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.97
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.97
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.97
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.97
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.97
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.97
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.97
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.97
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.97
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.97
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.97
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.97
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.97
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.97
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.97
06192	Methylene Chloride	75-09-2	4.1	J	0.26	4.4		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.97

*=This limit was used in the evaluation of the final result
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Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.97
06192	Toluene	108-88-3	0.17	J	0.09	4.4		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.97
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.97
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.97
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.97
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.0	U	6.0	18		26.26
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-17-SA5A-QC-051611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.7	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.9		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,600		5.54	22.0		1
07914	Boron	7440-42-8	8.74		0.981	5.51		1
01650	Calcium	7440-70-2	2,780		6.76	22.0		1
01654	Iron	7439-89-6	26,800		5.19	22.0		1
01656	Lithium	7439-93-2	32.4		0.24	2.2		1
01657	Magnesium	7439-95-4	5,650		2.80	11.0		1
06958	Manganese	7439-96-5	304		0.0860	0.551		1
10145	Phosphorus	7723-14-0	322		0.617	11.0		1
01662	Potassium	7440-09-7	2,180		19.8	55.1		1
01667	Sodium	7440-23-5	108	J	41.1	110		1
07968	Strontium	7440-24-6	21.9		0.0683	0.551		1
06969	Tin	7440-31-5	3.31	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,520		0.419	1.10		1
10146	Zirconium	7440-67-7	4.56	J	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.250		0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	6.91		0.0882	0.441		2
06126	Barium	7440-39-3	114		0.119	0.441		2
06127	Beryllium	7440-41-7	0.849		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0742	J	0.0441	0.110		2
06131	Chromium	7440-47-3	20.9		0.132	0.441		2
06132	Cobalt	7440-48-4	8.87		0.0220	0.110		2
06133	Copper	7440-50-8	8.59		0.0727	0.441		2
06135	Lead	7439-92-1	6.44		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.918		0.0551	0.110		2
06139	Nickel	7440-02-0	15.2		0.110	0.441		2
06141	Selenium	7782-49-2	0.207	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.391		0.0132	0.110		2
06145	Thallium	7440-28-0	0.306		0.0331	0.110		2
06148	Vanadium	7440-62-2	43.0		0.0242	0.110		2
06149	Zinc	7440-66-6	54.4		0.617	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.91	U	0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	407		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-17-SA5A-QC-051611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 18:47	Chelsea B Eastep	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 16:48	Jason M Long	26.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:22	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:19	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 06:32	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 20:54	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 12:59	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:27	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-17-SA5A-QC-051611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 13:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 13:21	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 20:58	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.02
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.02
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.02
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.02
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.02
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		1.02
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.02
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1.02
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.02
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.02
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.02
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		1.02
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1.02
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1.02
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		1.02
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.02
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.02
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		1.02
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.02
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.02
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.02
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.02
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.02
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.02
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.02
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.02
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.02
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1.02
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1.02
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.02
06192	Isopropylbenzene	98-82-8	0.66	J	0.07	4.4		1.02
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.02
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		1.02
06192	Methylene Chloride	75-09-2	6.2		0.27	4.4		1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.02

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Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4		1.02
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.02
06192	Toluene	108-88-3	0.18	J	0.09	4.4		1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.02
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.02
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.02
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.02
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.02
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.02
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.02
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.02
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.02
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.41
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.0	U	18.0	36.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.66	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.98	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	1.2	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1

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Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.83	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.98	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.76	J	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.43
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1

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Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

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SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	64	U	64	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	120	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	J	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	1.9		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	5.2		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1

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Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

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SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,500		5.23	20.8		1
07914	Boron	7440-42-8	7.69		0.926	5.20		1
01650	Calcium	7440-70-2	2,710		6.38	20.8		1
01654	Iron	7439-89-6	20,000		4.90	20.8		1
01656	Lithium	7439-93-2	18.8		0.23	2.1		1
01657	Magnesium	7439-95-4	4,390		2.64	10.4		1
06958	Manganese	7439-96-5	269		0.0812	0.520		1
10145	Phosphorus	7723-14-0	340		0.583	10.4		1
01662	Potassium	7440-09-7	2,160		18.7	52.0		1
01667	Sodium	7440-23-5	88.9	J	38.8	104		1
07968	Strontium	7440-24-6	17.3		0.0645	0.520		1
06969	Tin	7440-31-5	2.92	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,120		0.395	1.04		1
10146	Zirconium	7440-67-7	2.97	J	0.874	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.269		0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.02		0.0841	0.420		2
06126	Barium	7440-39-3	90.4		0.113	0.420		2
06127	Beryllium	7440-41-7	0.749		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.191		0.0420	0.105		2
06131	Chromium	7440-47-3	20.7		0.126	0.420		2
06132	Cobalt	7440-48-4	7.70		0.0210	0.105		2
06133	Copper	7440-50-8	27.4		0.0693	0.420		2
06135	Lead	7439-92-1	10.3		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.573		0.0525	0.105		2
06139	Nickel	7440-02-0	14.3		0.105	0.420		2
06141	Selenium	7782-49-2	0.154	J	0.0420	0.420		2
06142	Silver	7440-22-4	1.47		0.0126	0.105		2
06145	Thallium	7440-28-0	0.322		0.0315	0.105		2
06148	Vanadium	7440-62-2	41.4		0.0231	0.105		2
06149	Zinc	7440-66-6	64.5		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.35		0.0149	0.520		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.92	J	0.87	1.6		1

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Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	415		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.59		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-167-SA5A-SB-1.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 19:10	Chelsea B Eastep	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 17:08	Jason M Long	23.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:27	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:25	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 17:46	Matthew S Woods	1

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Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 06:58	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 21:26	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 15:39	Elizabeth J Marin	26.43
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:24	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 02:04	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 19:06	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 13:17	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 06:36	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/19/2011 23:48	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111370018A	05/20/2011 18:26	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111390019A	05/24/2011 19:18	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111390019A	05/20/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111370018A	05/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:46	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 14:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11141621202B	05/22/2011 14:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 14:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 21:11	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 10:55	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Analysis Report

Sample Description: EB15-SA5A-SB-051611 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288935
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE151-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
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Sample Description: **EB15-SA5A-SB-051611 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288935
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE151-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	6		1
04678	Benzidine	92-87-5	22	U	22	67		1
04678	Benzoic acid	65-85-0	7	U	7	17		1
04678	Benzyl alcohol	100-51-6	6	U	6	17		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	6		1
04678	Carbazole	86-74-8	1	U	1	6		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	6		1
04678	4-Chloroaniline	106-47-8	1	U	1	6		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	6		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	6		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	6		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	6		1
04678	2-Chlorophenol	95-57-8	1	U	1	6		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	6		1
04678	Dibenzofuran	132-64-9	1	U	1	6		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	6		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	6		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	6		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	6		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	33		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB15-SA5A-SB-051611 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288935
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE151-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	6		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	6		1
04678	Hexachlorobenzene	118-74-1	1	U	1	6		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	6		1
04678	Hexachlorocyclopentadiene	77-47-4	6	U	6	17		1
04678	Hexachloroethane	67-72-1	1	U	1	6		1
04678	Isophorone	78-59-1	1	U	1	6		1
04678	2-Methylphenol	95-48-7	1	U	1	6		1
04678	4-Methylphenol	106-44-5	2	U	2	6		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	6		1
04678	3-Nitroaniline	99-09-2	1	U	1	6		1
04678	4-Nitroaniline	100-01-6	1	U	1	6		1
04678	Nitrobenzene	98-95-3	1	U	1	6		1
04678	2-Nitrophenol	88-75-5	1	U	1	6		1
04678	4-Nitrophenol	100-02-7	11	U	11	33		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	6		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	6		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	17		1
04678	Phenol	108-95-2	1	U	1	6		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	6		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	6		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	6		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.054		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.054		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.054		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.054		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.054		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.054		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.054		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.054		1
10137	Butylbenzylphthalate	85-68-7	0.054	U	0.054	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.054	U	0.054	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.054		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.054		1
10137	Diethylphthalate	84-66-2	0.054	U	0.054	1.1		1
10137	Dimethylphthalate	131-11-3	0.054	U	0.054	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.054	U	0.054	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB15-SA5A-SB-051611 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288935
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE151-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10137	Fluoranthene	206-44-0	0.011 U	0.011	0.054		1
10137	Fluorene	86-73-7	0.011 U	0.011	0.054		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011 U	0.011	0.054		1
10137	1-Methylnaphthalene	90-12-0	0.031 J	0.011	0.054		1
10137	2-Methylnaphthalene	91-57-6	0.033 J	0.011	0.054		1
10137	Naphthalene	91-20-3	0.22	0.032	0.054		1
10137	N-Nitrosodimethylamine	62-75-9	0.030 J	0.011	0.054		1
10137	Di-n-octylphthalate	117-84-0	0.054 U	0.054	1.1		1
10137	Phenanthrene	85-01-8	0.011 U	0.011	0.054		1
10137	Pyrene	129-00-0	0.011 U	0.011	0.054		1
Reporting limits were raised due to limited sample volume.							
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10 U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10 U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10 U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10 U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10 U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21 U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10 U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10 U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10 U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.16 U	0.16	0.52		1
10227	PCB-1262	37324-23-5	0.21 U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17 U	0.17	0.52		1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0195 J	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB15-SA5A-SB-051611 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288935
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE151-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.6	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111372AA	05/17/2011 23:51	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111371AA	05/17/2011 13:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111371AA	05/17/2011 13:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111372AA	05/17/2011 23:51	Kevin A Sposito	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11138WAD026	05/21/2011 07:22	Brian K Graham	1

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Sample Description: EB15-SA5A-SB-051611 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288935
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE151-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11138WAG026	05/19/2011 23:36	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11138WAD026	05/18/2011 15:20	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11138WAG026	05/18/2011 15:20	Timothy J Attenberger	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111380016A	05/20/2011 21:42	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	111380016A	05/19/2011 02:00	Sherry L Morrow	1
01743	Aluminum	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
08014	Boron	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
01750	Calcium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
01754	Iron	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
01756	Lithium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
07058	Manganese	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
01762	Potassium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
01767	Sodium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
08068	Strontium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
07069	Tin	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
07070	Titanium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
06024	Antimony	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111386050002D	05/20/2011 11:40	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111386050002C	05/20/2011 11:40	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111386050002B	05/20/2011 11:40	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111385713002	05/19/2011 09:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111381848002	05/19/2011 09:10	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111386050002	05/19/2011 09:08	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111385713002	05/19/2011 04:30	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11139196902B	05/20/2011 07:48	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11154621701A	06/03/2011 14:03	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11137196401A	05/17/2011 11:24	Ashley M Adams	1
00200	18b pH by 9040B	SW-846 9040B	1	11137020001A	05/17/2011 20:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0024 SDG#: DE151-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.87
06192	Methylene Chloride	75-09-2	4.5		0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0024 SDG#: DE151-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	J	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.08
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0024 SDG#: DE151-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1

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Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0024 SDG#: DE151-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.9	J	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,000		5.77	23.0		1
07914	Boron	7440-42-8	15.5		1.02	5.74		1
01650	Calcium	7440-70-2	13,300		7.04	23.0		1
01654	Iron	7439-89-6	33,800		27.0	115		5
01656	Lithium	7439-93-2	28.4		0.25	2.3		1
01657	Magnesium	7439-95-4	7,000		2.92	11.5		1
06958	Manganese	7439-96-5	515		0.0896	0.574		1
10145	Phosphorus	7723-14-0	167		0.643	11.5		1
01662	Potassium	7440-09-7	3,130		20.7	57.4		1
01667	Sodium	7440-23-5	659		42.8	115		1
07968	Strontium	7440-24-6	61.6		0.0712	0.574		1
06969	Tin	7440-31-5	3.05	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,100		0.436	1.15		1
10146	Zirconium	7440-67-7	5.51	J	0.964	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.446		0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.95		0.0883	0.442		2
06126	Barium	7440-39-3	196		0.119	0.442		2
06127	Beryllium	7440-41-7	1.19		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.216		0.0442	0.110		2

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Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0024 SDG#: DE151-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	39.9	0.132	0.442		2
06132	Cobalt	7440-48-4	14.9	0.0221	0.110		2
06133	Copper	7440-50-8	18.6	0.0729	0.442		2
06135	Lead	7439-92-1	13.0	0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.423	0.0552	0.110		2
06139	Nickel	7440-02-0	32.7	0.110	0.442		2
06141	Selenium	7782-49-2	0.0763 J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0765 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.402	0.0331	0.110		2
06148	Vanadium	7440-62-2	75.4	0.0243	0.110		2
06149	Zinc	7440-66-6	58.2	0.618	3.31		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	24.2	0.92	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	418	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.92	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-002-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-002-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
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Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0024 SDG#: DE151-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 19:32	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 17:27	Jason M Long	22.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:32	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:29	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 07:23	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 21:58	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 13:36	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 11:46	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:12	Choon Y Tian	2

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Sample Description: **SL-002-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0024 SDG#: DE151-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 14:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 14:27	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 21:17	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288937
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0029 SDG#: DE151-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

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Sample Description: SL-002-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288937
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0029 SDG#: DE151-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1

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Sample Description: **SL-002-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288937
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0029 SDG#: DE151-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,300		5.71	22.7		1
07914	Boron	7440-42-8	15.0		1.01	5.68		1
01650	Calcium	7440-70-2	12,000		6.96	22.7		1
01654	Iron	7439-89-6	35,000		26.7	114		5
01656	Lithium	7439-93-2	28.3		0.25	2.3		1
01657	Magnesium	7439-95-4	6,960		2.88	11.4		1
06958	Manganese	7439-96-5	517		0.0886	0.568		1
10145	Phosphorus	7723-14-0	256		0.636	11.4		1
01662	Potassium	7440-09-7	3,300		20.4	56.8		1
01667	Sodium	7440-23-5	739		42.4	114		1
07968	Strontium	7440-24-6	55.0		0.0704	0.568		1
06969	Tin	7440-31-5	3.20	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,390		0.431	1.14		1
10146	Zirconium	7440-67-7	7.08		0.954	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.425		0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.4		0.0882	0.441		2
06126	Barium	7440-39-3	165		0.119	0.441		2
06127	Beryllium	7440-41-7	1.10		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.243		0.0441	0.110		2
06131	Chromium	7440-47-3	35.2		0.132	0.441		2
06132	Cobalt	7440-48-4	10.5		0.0221	0.110		2
06133	Copper	7440-50-8	19.8		0.0728	0.441		2
06135	Lead	7439-92-1	10.5		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.651		0.0551	0.110		2
06139	Nickel	7440-02-0	25.6		0.110	0.441		2
06141	Selenium	7782-49-2	0.0860	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0385	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.425		0.0331	0.110		2
06148	Vanadium	7440-62-2	70.7		0.0243	0.110		2
06149	Zinc	7440-66-6	66.5		0.618	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.6		0.92	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1

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Sample Description: SL-002-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288937
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0029 SDG#: DE151-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	408		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.31		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 07:48	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 22:29	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 13:54	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 11:49	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288937
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0029 SDG#: DE151-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 14:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 14:49	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 21:29	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	22		7.0	8.4		0.87
06192	Benzene	71-43-2	0.21	J	0.10	4.2		0.87
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.87
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.87
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.87
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.87
06192	2-Butanone	78-93-3	3.9	J	1.3	8.4		0.87
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.87
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.87
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.87
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.87
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.87
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.87
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.87
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.87
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.87
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.87
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.87
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.87
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.87
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.87
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.87
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.87
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.87
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.87
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.87
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.87
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.87
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.87
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.87
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.87
06192	Methylene Chloride	75-09-2	5.1		0.25	4.2		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.87

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.87
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.87
06192	Toluene	108-88-3	0.13	J	0.08	4.2		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.87
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.87
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.87
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.87
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		21.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	199	U	199	399		10

The internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-003-SA5DN-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1

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Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.85
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	72	U	72	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	96	U	96	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	96	U	96	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	960	U	960	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	96	U	96	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	96	U	96	140	10000000	1

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Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	960	U	960	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	6,600		710	1,800		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	6.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.96	U	0.96	2.9		2
10199	EFH (C15-C20)	n.a.	1.8	J	0.96	2.9		2
10199	EFH (C21-C30)	n.a.	11		0.96	2.9		2
10199	EFH (C30 - C40)	n.a.	68		0.96	2.9		2
10199	EFH (C8-C11)	n.a.	0.96	U	0.96	2.9		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	230	J	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1

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Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,800		5.86	23.3		1
07914	Boron	7440-42-8	16.5		1.04	5.83		1
01650	Calcium	7440-70-2	6,790		7.14	23.3		1
01654	Iron	7439-89-6	35,100		27.4	117		5
01656	Lithium	7439-93-2	26.1		0.26	2.3		1
01657	Magnesium	7439-95-4	7,060		2.96	11.7		1
06958	Manganese	7439-96-5	698		0.0909	0.583		1
10145	Phosphorus	7723-14-0	239		0.653	11.7		1
01662	Potassium	7440-09-7	4,160		21.0	58.3		1
01667	Sodium	7440-23-5	208		43.5	117		1
07968	Strontium	7440-24-6	43.6		0.0723	0.583		1
06969	Tin	7440-31-5	3.10	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,180		0.443	1.17		1
10146	Zirconium	7440-67-7	6.40		0.979	5.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.410		0.0706	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.73		0.0942	0.471		2
06126	Barium	7440-39-3	193		0.127	0.471		2
06127	Beryllium	7440-41-7	1.21		0.0188	0.118		2
06128	Cadmium	7440-43-9	0.157		0.0471	0.118		2
06131	Chromium	7440-47-3	43.3		0.141	0.471		2
06132	Cobalt	7440-48-4	14.9		0.0235	0.118		2
06133	Copper	7440-50-8	23.1		0.0777	0.471		2
06135	Lead	7439-92-1	14.0		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.723		0.0588	0.118		2
06139	Nickel	7440-02-0	30.3		0.118	0.471		2
06141	Selenium	7782-49-2	0.216	J	0.0471	0.471		2
06142	Silver	7440-22-4	0.0639	J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.514		0.0353	0.118		2
06148	Vanadium	7440-62-2	83.2		0.0259	0.118		2
06149	Zinc	7440-66-6	65.2		0.659	3.53		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1

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SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.0		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.96	1.8		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.60		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	368		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	16.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-003-SA5DN-SB-1.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011	19:54	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011	17:47	Jason M Long	21.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011	19:37	Lois E Hiltz	n.a.

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Sample Description: **SL-003-SA5DN-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

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CDM Federal Programs Corp.
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S0030 SDG#: DE151-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:35	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/10/2011 16:03	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 08:13	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 23:01	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 16:16	Elizabeth J Marin	21.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:34	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	06/01/2011 07:16	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 19:16	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111390003A	05/19/2011 18:34	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 14:13	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111390003A	05/19/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 09:55	Tracy A Cole	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 00:03	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111370018A	05/20/2011 18:40	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 06:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	2	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111370018A	05/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 11:53	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1

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Sample Description: **SL-003-SA5DN-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
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S0030 SDG#: DE151-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 14:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11141621202B	05/22/2011 14:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 15:11	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 21:48	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 10:56	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182102B	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402B	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-003-SA5DN-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7	U	7.7	9.2		1.03
06192	Benzene	71-43-2	0.12	U	0.12	4.6		1.03
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.03
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.03
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.03
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.03
06192	2-Butanone	78-93-3	1.4	U	1.4	9.2		1.03
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.03
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.03
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.03
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		1.03
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.03
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.03
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		1.03
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.03
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1.03
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		1.03
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.03
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1.03
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.03
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.03
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.03
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1.03
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1.03
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.03
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.03
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.2		1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.03
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.2		1.03
06192	Methylene Chloride	75-09-2	1.1	J	0.28	4.6		1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.03

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Sample Description: **SL-003-SA5DN-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		1.03
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.03
06192	Toluene	108-88-3	0.12	J	0.09	4.6		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.03
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.03
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1.03
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.03
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.6		1.03
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.2
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.6	U	18.6	37.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Sample Description: **SL-003-SA5DN-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.81
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1

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Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.86	J	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.89	U	0.89	2.7		2
10199	EFH (C15-C20)	n.a.	1.0	J	0.89	2.7		2
10199	EFH (C21-C30)	n.a.	9.0		0.89	2.7		2
10199	EFH (C30 - C40)	n.a.	47		0.89	2.7		2
10199	EFH (C8-C11)	n.a.	0.89	U	0.89	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1

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Sample Description: **SL-003-SA5DN-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,300		5.46	21.7		1
07914	Boron	7440-42-8	10.9		0.965	5.42		1
01650	Calcium	7440-70-2	34,500		6.65	21.7		1
01654	Iron	7439-89-6	34,400		25.5	108		5
01656	Lithium	7439-93-2	28.6		0.24	2.2		1
01657	Magnesium	7439-95-4	6,350		2.76	10.8		1
06958	Manganese	7439-96-5	237		0.0846	0.542		1
10145	Phosphorus	7723-14-0	523		0.607	10.8		1
01662	Potassium	7440-09-7	2,650		19.5	54.2		1
01667	Sodium	7440-23-5	676		40.5	108		1
07968	Strontium	7440-24-6	52.6		0.0673	0.542		1
06969	Tin	7440-31-5	3.25	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,400		0.412	1.08		1
10146	Zirconium	7440-67-7	5.09	J	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.246		0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.2		0.0876	0.438		2
06126	Barium	7440-39-3	149		0.118	0.438		2
06127	Beryllium	7440-41-7	1.04		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.306		0.0438	0.110		2
06131	Chromium	7440-47-3	36.3		0.131	0.438		2
06132	Cobalt	7440-48-4	8.24		0.0219	0.110		2
06133	Copper	7440-50-8	21.1		0.0723	0.438		2
06135	Lead	7439-92-1	10.4		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.415		0.0548	0.110		2
06139	Nickel	7440-02-0	23.2		0.110	0.438		2
06141	Selenium	7782-49-2	0.0623	J	0.0438	0.438		2
06142	Silver	7440-22-4	0.0713	J	0.0131	0.110		2
06145	Thallium	7440-28-0	0.437		0.0329	0.110		2
06148	Vanadium	7440-62-2	68.2		0.0241	0.110		2
06149	Zinc	7440-66-6	55.5		0.613	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0306	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.8		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.8		0.89	1.7		1

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Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	357		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.36		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-003-SA5DN-SB-8.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 20:16	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 18:08	Jason M Long	22.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:48	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 18:21	Matthew S Woods	1

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Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

S0038 SDG#: DE151-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 08:39	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 23:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 16:52	Elizabeth J Marin	23.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:47	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 02:47	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 19:25	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 14:31	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 10:45	Tracy A Cole	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 00:18	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111370018A	05/20/2011 18:53	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111390019A	05/24/2011 23:02	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111390019A	05/20/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111370018A	05/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 11:56	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2

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Sample Description: **SL-003-SA5DN-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 15:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11141621202B	05/22/2011 15:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 15:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 22:07	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 10:57	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182102B	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402B	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	15		6.7	8.0		0.84
06192	Benzene	71-43-2	0.17	J	0.10	4.0		0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.84
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.84
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.84
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.84
06192	2-Butanone	78-93-3	3.2	J	1.2	8.0		0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.84
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.84
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.84
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.84
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.84
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.84
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.84
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.84
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.84
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.84
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.84
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.84
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.84
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.84
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.84
06192	Methylene Chloride	75-09-2	0.88	J	0.24	4.0		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.84

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Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.84
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.84
06192	Toluene	108-88-3	0.15	J	0.08	4.0		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.84
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.84
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.84
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.84
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.84
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		22.28
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	287	J	200	399		10
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1

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Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1

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Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.86	J	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.96	J	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	1.0	J	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		24.18
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1

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Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	0.93	J	0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	630		120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1

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Sample Description: **SL-004-SA5DN-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,100		5.79	23.0		1
07914	Boron	7440-42-8	18.0		1.02	5.76		1
01650	Calcium	7440-70-2	5,670		7.06	23.0		1
01654	Iron	7439-89-6	33,100		27.1	115		5
01656	Lithium	7439-93-2	25.4		0.25	2.3		1
01657	Magnesium	7439-95-4	6,740		2.92	11.5		1
06958	Manganese	7439-96-5	441		0.0898	0.576		1
10145	Phosphorus	7723-14-0	241		0.645	11.5		1
01662	Potassium	7440-09-7	4,490		20.7	57.6		1
01667	Sodium	7440-23-5	236		43.0	115		1
07968	Strontium	7440-24-6	40.7		0.0714	0.576		1
06969	Tin	7440-31-5	3.18	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,510		0.438	1.15		1
10146	Zirconium	7440-67-7	8.13		0.967	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.392		0.0698	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.72		0.0930	0.465		2
06126	Barium	7440-39-3	174		0.126	0.465		2
06127	Beryllium	7440-41-7	1.10		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.418		0.0465	0.116		2
06131	Chromium	7440-47-3	40.0		0.140	0.465		2
06132	Cobalt	7440-48-4	11.7		0.0233	0.116		2
06133	Copper	7440-50-8	21.8		0.0767	0.465		2
06135	Lead	7439-92-1	13.2		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.609		0.0581	0.116		2
06139	Nickel	7440-02-0	25.6		0.116	0.465		2
06141	Selenium	7782-49-2	0.288	J	0.0465	0.465		2
06142	Silver	7440-22-4	0.0679	J	0.0140	0.116		2
06145	Thallium	7440-28-0	0.471		0.0349	0.116		2
06148	Vanadium	7440-62-2	76.5		0.0256	0.116		2
06149	Zinc	7440-66-6	69.8		0.651	3.49		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.96	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.60		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	383		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.96		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-004-SA5DN-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 20:39	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 18:28	Jason M Long	22.28
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:53	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/10/2011 16:21	Matthew S Woods	10

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Sample Description: **SL-004-SA5DN-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 09:04	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/24/2011 23:29	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 17:29	Elizabeth J Marin	24.18
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:52	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 03:29	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 19:35	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 14:50	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 07:01	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 00:33	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111370018A	05/20/2011 19:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111390019A	05/24/2011 18:33	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111390019A	05/20/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111370018A	05/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 12:00	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2

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Sample Description: **SL-004-SA5DN-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 15:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11141621202B	05/22/2011 15:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 15:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 22:19	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 10:59	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182102B	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402B	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-004-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.87
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.87
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.87
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.87
06192	Methylene Chloride	75-09-2	0.81	J	0.24	3.9		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.87

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Sample Description: SL-004-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.87
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.4
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.9	U	18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Sample Description: SL-004-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.61	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.81	J	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.74
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1

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Sample Description: **SL-004-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

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14420 Albemarle Point Place
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S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
	The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.2		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	17		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1

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Sample Description: SL-004-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
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S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,800		5.54	22.0		1
07914	Boron	7440-42-8	12.7		0.980	5.50		1
01650	Calcium	7440-70-2	67,600		33.7	110		5
01654	Iron	7439-89-6	23,800		5.18	22.0		1
01656	Lithium	7439-93-2	25.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,230		2.80	11.0		1
06958	Manganese	7439-96-5	174		0.0859	0.550		1
10145	Phosphorus	7723-14-0	208		0.616	11.0		1
01662	Potassium	7440-09-7	2,640		19.8	55.0		1
01667	Sodium	7440-23-5	581		41.1	110		1
07968	Strontium	7440-24-6	86.1		0.0682	0.550		1
06969	Tin	7440-31-5	2.81	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,190		0.418	1.10		1
10146	Zirconium	7440-67-7	5.21	J	0.925	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.270		0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.52		0.0889	0.445		2
06126	Barium	7440-39-3	121		0.120	0.445		2
06127	Beryllium	7440-41-7	0.735		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.150		0.0445	0.111		2
06131	Chromium	7440-47-3	24.6		0.133	0.445		2
06132	Cobalt	7440-48-4	6.83		0.0222	0.111		2
06133	Copper	7440-50-8	12.9		0.0734	0.445		2
06135	Lead	7439-92-1	6.59		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.426		0.0556	0.111		2
06139	Nickel	7440-02-0	16.3		0.111	0.445		2
06141	Selenium	7782-49-2	0.0513	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0345	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.295		0.0333	0.111		2
06148	Vanadium	7440-62-2	49.3		0.0245	0.111		2
06149	Zinc	7440-66-6	48.3		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.7		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.9		0.91	1.7		1

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SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	369		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-004-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 21:01	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 18:48	Jason M Long	21.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:59	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 18:56	Matthew S Woods	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-004-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0049 SDG#: DE151-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 09:29	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/21/2011 00:34	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 18:05	Elizabeth J Marin	21.74
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:58	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 04:12	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 19:54	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 15:08	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 07:25	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 00:48	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111370018A	05/20/2011 19:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111390019A	05/24/2011 22:17	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111390019A	05/20/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111370018A	05/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 12:03	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2

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Sample Description: **SL-004-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0049 SDG#: DE151-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 16:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11141621202B	05/22/2011 16:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 16:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 22:31	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 11:32	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182102B	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402B	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-051611 Water
SSFL Area IV Collocated Soil Sampling
TB-051611

LLI Sample # WW 6288942
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB516 SDG#: DE151-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-051611 Water
SSFL Area IV Collocated Soil Sampling
TB-051611

LLI Sample # WW 6288942
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB516 SDG#: DE151-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111372AA	05/18/2011	00:12	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111371AA	05/17/2011	13:52	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111371AA	05/17/2011	13:52	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111372AA	05/18/2011	00:12	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11143A20A	05/23/2011	23:01	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11143A20A	05/23/2011	23:01	Carrie E Miller	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111401AA	Sample number(s): 6288929-6288931,6288933-6288934,6288936,6288938-6288941									
Acetone	6.7	U	6.7	8.0	ug/kg	136		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	103		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	125*		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	100		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	104		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	65		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	127		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	98		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	105		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	97		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	106		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	61		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	94		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	68		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	74		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	96		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	103		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	102		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	100		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	66		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	102		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	77		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	98		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	91		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	101		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	97		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	96		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	85		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	81		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	114		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	115		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	103		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	92		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	101		61-134		
Methylene Chloride	0.39	J	0.24	4.0	ug/kg	77		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	104		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	96		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	117		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	104		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	100		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	78		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	100		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	100		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	68		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
Batch number: E111371AA	Sample number(s): 6288935,6288942									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	109	80-123	1	30
Batch number: E111381AA	Sample number(s): 6288929-6288931,6288933-6288934,6288936,6288938-6288941									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	104	106	70-130	2	30
Batch number: L111372AA	Sample number(s): 6288935,6288942									
Acetone	6	U	6.	20	ug/l	90	85	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	99	96	79-120	3	30
Bromobenzene	1	U	1.	5	ug/l	94	89	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	96	90	80-120	6	30
Bromodichloromethane	1	U	1.	5	ug/l	90	87	80-120	4	30
Bromoform	1	U	1.	5	ug/l	81	78	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	117	113	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	91	87	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	99	95	74-120	4	30
sec-Butylbenzene	1	U	1.	5	ug/l	96	91	78-120	5	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	91	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	92	87	75-123	6	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	91	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	110	106	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	93	90	56-129	4	30
Chloroform	0.8	U	0.8	5	ug/l	96	92	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	109	104	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	93	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	93	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	54	55	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	87	84	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	88	84	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	92	80-120	5	30
Dibromomethane	1	U	1.	5	ug/l	92	87	80-120	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	91	80-120	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	94	91	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	91	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	93	89	47-120	5	30
1,1-Dichloroethane	1	U	1.	5	ug/l	97	94	79-120	4	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	95	92	70-130	4	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	97	95	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	92	80-120	4	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	93	80-120	4	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	93	78-120	4	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	92	80-120	5	30
2,2-Dichloropropane	1	U	1.	5	ug/l	93	88	77-124	5	30
1,1-Dichloropropene	1	U	1.	5	ug/l	95	93	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	89	80-120	3	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	86	79-120	5	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	93	79-120	5	30
Freon 113	2	U	2.	10	ug/l	100	92	69-128	8	30
Freon 133a	2	U	2.	5	ug/l	95	93	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	82	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	91	87	65-136	5	30
Isopropylbenzene	1	U	1.	5	ug/l	98	93	77-120	5	30
p-Isopropyltoluene	1	U	1.	5	ug/l	92	89	80-120	4	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	89	76-120	5	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	90	87	70-121	4	30
Methylene Chloride	2	U	2.	5	ug/l	98	93	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	94	92	80-120	3	30
Styrene	1	U	1.	5	ug/l	94	90	80-120	5	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	93	88	80-120	6	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	96	71-120	5	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	87	80-121	6	30
Toluene	0.7	U	0.7	5	ug/l	98	94	79-120	5	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	90	89	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	87	83	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	92	89	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	92	80-120	4	30
Trichloroethene	1	U	1.	5	ug/l	93	90	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	106	102	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	96	90	80-120	7	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	94	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	96	92	75-120	5	30
Vinyl Chloride	1	U	1.	5	ug/l	109	106	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	91	80-120	5	30
o-Xylene	0.8	U	0.8	5	ug/l	94	91	80-120	3	30
Batch number: 11138WAD026	Sample number(s): 6288935									
Aniline	1	U	1.	5	ug/l	72	80	49-101	11	30
Benzidine	20	U	20.	60	ug/l	68	72	34-117	4	30
Benzoic acid	6	U	6.	15	ug/l	25	34	10-69	31*	30
Benzyl alcohol	5	U	5.	15	ug/l	71	85	66-97	17	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	90	95	82-117	5	30
Carbazole	1	U	1.	5	ug/l	92	93	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	92	94	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	82	85	42-124	4	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	88	92	74-124	4	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	82	84	77-108	3	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	79	82	62-127	5	30
2-Chloronaphthalene	2	U	2.	5	ug/l	85	90	54-132	6	30
2-Chlorophenol	1	U	1.	5	ug/l	85	88	77-108	4	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	94	101	82-111	7	30
Dibenzofuran	1	U	1.	5	ug/l	90	94	83-108	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	85	86	55-118	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	84	87	50-119	4	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	82	85	53-119	4	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	64	71	49-111	11	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	94	96	80-109	2	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	86	89	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	91	95	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	96	98	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	79	85	52-131	7	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	95	100	81-115	5	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	92	93	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	83	85	78-116	2	30
Hexachlorobenzene	1	U	1.	5	ug/l	98	101	81-118	3	30
Hexachlorobutadiene	1	U	1.	5	ug/l	93	94	57-124	0	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	67	72	36-118	7	30
Hexachloroethane	1	U	1.	5	ug/l	76	78	52-113	2	30
Isophorone	1	U	1.	5	ug/l	90	91	74-117	1	30
2-Methylphenol	1	U	1.	5	ug/l	74	81	64-101	10	30
4-Methylphenol	2	U	2.	5	ug/l	60*	66	61-103	9	30
2-Nitroaniline	1	U	1.	5	ug/l	91	90	83-116	1	30
3-Nitroaniline	1	U	1.	5	ug/l	92	95	74-113	3	30
4-Nitroaniline	1	U	1.	5	ug/l	80	82	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	87	91	75-109	4	30
2-Nitrophenol	1	U	1.	5	ug/l	88	89	86-120	2	30
4-Nitrophenol	10	U	10.	30	ug/l	25	31	16-78	20	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	82	88	69-110	7	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	86	88	67-136	3	30
Pentachlorophenol	3	U	3.	15	ug/l	77	76	53-110	2	30
Phenol	1	U	1.	5	ug/l	33	40	21-67	20	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	94	71-112	3	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	86	89	79-107	3	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	87	89	81-113	2	30
Batch number: 11138WAG026	Sample number(s): 6288935									
Acenaphthene	0.010	U	0.010	0.050	ug/l	98	97	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	95	95	70-110	0	30
Anthracene	0.010	U	0.010	0.050	ug/l	102	101	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	106	105	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	107	109	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	122	124*	69-123	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	107	105	57-131	2	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	105	109	59-130	4	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	94	90	40-138	4	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	101	97	74-131	4	30
Chrysene	0.010	U	0.010	0.050	ug/l	104	103	76-116	1	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	107	108	55-134	2	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	99	99	57-134	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	88	88	40-119	0	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	118	107	57-154	10	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	102	106	75-116	3	30
Fluorene	0.010	U	0.010	0.050	ug/l	104	103	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	105	107	69-124	2	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	101	100	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	90	89	75-115	2	30
Naphthalene	0.030	U	0.030	0.050	ug/l	96	96	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	48	50	36-89	5	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	117	124	57-145	6	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	98	97	76-111	0	30
Pyrene	0.010	U	0.010	0.050	ug/l	100	98	69-118	2	30
Batch number: 11139SLG026	Sample number(s): 6288929-6288931,6288933-6288934,6288936-6288939,6288941									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthene	0.67	U	0.67	1.7	ug/kg	100		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	92		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	96		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	104		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	103		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	116		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	114		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	104		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	117		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	103		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	136		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	107		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	109		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	115		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	106		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		62-120		
Naphthalene	1.1	J	0.67	1.7	ug/kg	104		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	96		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	124		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	100		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		56-121		
Batch number: 11139SLH026	Sample number(s): 6288929-6288931,6288933-6288934,6288936-6288941									
Acenaphthene	17	U	17.	170	ug/kg	96		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	98		75-122		
Aniline	170 U		170.	500	ug/kg	71		34-94		
Anthracene	17	U	17.	170	ug/kg	97		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	99		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	96		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	89		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	105		67-125		
Benzoic acid	170 U		170.	500	ug/kg	69		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	98		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	91		79-112		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	87		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	90		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	44		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	101		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	44*		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	24*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	92		75-117		
Fluoranthene	17	U	17.	170	ug/kg	96		78-116		
Fluorene	17	U	17.	170	ug/kg	96		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	88		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	89		64-119		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	94		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	90		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	101		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	97		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	84		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	92		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	105		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	66		51-117		
Phenanthrene	17	U	17.	170	ug/kg	96		77-113		
Phenol	17	U	17.	170	ug/kg	98		58-112		
Pyrene	17	U	17.	170	ug/kg	104		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	97		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11143SLE026	Sample number(s): 6288940									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	104		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	106		58-129		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	123		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	100		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	109		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	123		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	95		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	97		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	116		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	112		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	104		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	122		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	114		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	98		56-121		
Batch number: 11146SLE026	Sample number(s): 6288934,6288938-6288941									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	83		70-130		
Batch number: 11139A34A	Sample number(s): 6288934,6288938-6288941									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71	73	67-119	2	30
Batch number: 11143A20A	Sample number(s): 6288942									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111430006A	Sample number(s): 6288938									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	119		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	126*		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	100	107	54-134	7	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	99	107	54-134	7	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	129		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	119		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100 U		100.	300	ug/kg	108		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	145*		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	105		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	115		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	119		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	113		80-120		
PETN	800 U		800.	2,400	ug/kg	132*		80-120		
RDX	50	U	50.	120	ug/kg	116		75-131		
Tetryl	61	U	61.	120	ug/kg	82		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	119		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
Batch number: 111450004A	Sample number(s): 6288934,6288939-6288941									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	95	0*	54-134	200*	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	95	0*	54-134	200*	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	119		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
HMX	100	U	100.	300	ug/kg	101		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	132*		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	97		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	106		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	105		80-120		
PETN	800	U	800.	2,400	ug/kg	123*		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	72		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	109		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 111400002A	Sample number(s): 6288934,6288938-6288941									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	92		80-126		
Batch number: 111390003A	Sample number(s): 6288938									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		70-130		
Batch number: 111380016A	Sample number(s): 6288935									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	88*	94*	35-84	7	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	98	104	51-128	6	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	82	100	56-135	20	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111380023A	Sample number(s): 6288929-6288931,6288933-6288934,6288936-6288941									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	103	99	36-106	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	110		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	119		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111380034A	Sample number(s): 6288934,6288938-6288941									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	80		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	82		76-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	85		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	75		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	67		54-107		
Batch number: 111370018A	Sample number(s): 6288934,6288938-6288941									
Diethylene glycol	5.0	U	5.0	10	mg/kg	90		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	91		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	91		75-125		
Batch number: 111390030A	Sample number(s): 6288934,6288938-6288941									
Ethanol	100 U		100.	500	ug/kg	93		71-129		
Isopropanol	100 U		100.	500	ug/kg	92		75-125		
Methanol	100 U		100.	500	ug/kg	97		68-129		
Batch number: 111390019A	Sample number(s): 6288934,6288939-6288941									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		75-125		
Batch number: 111460029A	Sample number(s): 6288938									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	84		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	91		75-125		
Batch number: 111371026001A	Sample number(s): 6288929-6288934,6288936-6288941									
Antimony	0.0600	U	0.0600	0.200	mg/kg	149		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	102		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	99		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	114		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	102		82-118		
Copper	0.0827	J	0.0660	0.400	mg/kg	98		83-110		
Lead	0.0381	J	0.0104	0.200	mg/kg	100		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	100		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	100		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	100		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	106		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	100		81-112		
Batch number: 111371026001B	Sample number(s): 6288929-6288934,6288936-6288941									
Selenium	0.0400	U	0.0400	0.400	mg/kg	104		83-111		
Batch number: 111371026001C	Sample number(s): 6288929-6288934,6288936-6288941									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	111		78-122		
Batch number: 111371026001D	Sample number(s): 6288929-6288934,6288936-6288941									
Barium	0.108	U	0.108	0.400	mg/kg	100		81-111		
Batch number: 111375708002	Sample number(s): 6288929-6288934,6288936-6288941									
Aluminum	5.03	U	5.03	20.0	mg/kg	97		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	92		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	102		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	105		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	99		82-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.0780 U	0.0780	0.500	mg/kg	100		89-112		
Phosphorus	1.24 J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	99		78-110		
Sodium	37.3 U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	99		86-110		
Tin	1.54 J	1.00	10.0	mg/kg	105		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	102		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	102		80-120		
Batch number: 111375711002	Sample number(s): 6288929-6288934,6288936-6288941								
Mercury	0.0028 U	0.0028	0.0974	mg/kg	102		88-123		
Batch number: 111381848002	Sample number(s): 6288935								
Aluminum	0.0834 U	0.0834	0.200	mg/l	99	96	90-112	3	20
Boron	0.0181 J	0.0138	0.0500	mg/l	98	96	89-110	2	20
Calcium	0.0702 U	0.0702	0.200	mg/l	110	109	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	111	108	90-112	3	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	99	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	101	100	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	106	103	90-110	3	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	104	102	80-120	2	20
Potassium	0.239 U	0.239	0.500	mg/l	98	96	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	98	97	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	104	102	90-110	2	20
Tin	0.0098 U	0.0098	0.0200	mg/l	102	99	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	104	102	90-113	3	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	103	102	80-120	1	20
Batch number: 111385713002	Sample number(s): 6288935								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	103	103	80-120	1	20
Batch number: 111386050002A	Sample number(s): 6288935								
Antimony	0.00030 U	0.00030	0.0010	mg/l	101	95	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	102	105	86-111	3	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	104	104	90-113	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	101	107	90-114	6	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	102	107	90-118	5	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	96	100	87-113	4	20
Copper	0.00038 U	0.00038	0.0020	mg/l	97	101	90-113	5	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	101	102	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	108	90-113	5	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	100	105	90-115	5	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	97	107	89-116	10	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	99	105	89-116	6	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	95	104	90-116	10	20
Batch number: 111386050002B	Sample number(s): 6288935								
Selenium	0.00025 U	0.00025	0.0020	mg/l	104	107	85-114	3	20
Batch number: 111386050002C	Sample number(s): 6288935								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	98	103	89-115	6	20
Batch number: 111386050002D	Sample number(s): 6288935								
Barium	0.00053 U	0.00053	0.0020	mg/l	100	108	88-113	8	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11137196401A	Sample number(s): 6288935									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	102	103	90-110	1	20
Batch number: 11139196902B	Sample number(s): 6288935									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	96	96	90-110	0	20
Batch number: 11140243201A	Sample number(s): 6288929-6288930,6288932-6288934,6288936-6288941									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11141621201A	Sample number(s): 6288929-6288930,6288932-6288934,6288936-6288941									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	94		85-115		
Batch number: 11141621202B	Sample number(s): 6288929-6288930,6288932-6288934,6288936-6288941									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	90		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11144102201A	Sample number(s): 6288934,6288938-6288941									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	95		80-120		
Batch number: 11154621701A	Sample number(s): 6288935									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	98	99	85-115	0	20
Batch number: 11137020001A	Sample number(s): 6288935									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11139039402A	Sample number(s): 6288929,6288932-6288934,6288936-6288937									
18a pH by 9045C						100		95-105		
Batch number: 11139039402B	Sample number(s): 6288938-6288941									
18a pH by 9045C						100		95-105		
Batch number: 11139182102A	Sample number(s): 6288929,6288932-6288934,6288936-6288937									
32a OR Potential						98		98-102		
Batch number: 11139182102B	Sample number(s): 6288938-6288941									
32a OR Potential						98		98-102		
Batch number: 11144162401A	Sample number(s): 6288929-6288933,6288936-6288937									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11158162401B	Sample number(s): 6288938									
Moisture Content by 160.3						100		80-120		
Batch number: 11160162401A	Sample number(s): 6288934,6288939-6288941									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: B111401AA	Sample number(s): 6288929-6288931,6288933-6288934,6288936,6288938-6288941 UNSPK: 6288929								
Acetone	118	110	15-210	9	30				
Benzene	113	110	55-143	4	30				
Bromobenzene	109	108	43-139	2	30				
Bromochloromethane	132	126	60-137	7	30				
Bromodichloromethane	103	101	53-136	4	30				
Bromoform	97	97	38-124	2	30				
Bromomethane	68	65	42-168	8	30				
2-Butanone	110	106	37-163	6	30				
n-Butylbenzene	103	102	30-146	3	30				
sec-Butylbenzene	115	114	33-157	3	30				
tert-Butylbenzene	108	107	41-152	3	30				
Carbon Tetrachloride	122	117	45-153	6	30				
Chlorobenzene	105	104	49-135	4	30				
Chloroethane	65	60	39-152	10	30				
2-Chloroethyl Vinyl Ether	85	86	32-139	1	30				
Chloroform	110	107	61-142	5	30				
Chloromethane	79	79	51-163	2	30				
2-Chlorotoluene	107	104	42-146	5	30				
4-Chlorotoluene	102	100	39-145	4	30				
Chlorotrifluoroethene	81	81	70-130	23	30				
1,2-Dibromo-3-chloropropane	79	82	30-139	2	30				
Dibromochloromethane	103	100	51-128	5	30				
1,2-Dibromoethane	95	95	54-129	2	30				
Dibromomethane	96	96	57-130	3	30				
1,2-Dichlorobenzene	98	98	36-133	2	30				
1,3-Dichlorobenzene	104	103	34-134	3	30				
1,4-Dichlorobenzene	100	101	35-136	2	30				
Dichlorodifluoromethane	79	79	26-151	2	30				
1,1-Dichloroethane	114	111	63-142	5	30				
1,2-Dichloroethane	101	100	68-131	3	30				
1,1-Dichloroethene	92	86	61-149	9	30				
cis-1,2-Dichloroethene	107	106	60-136	4	30				
trans-1,2-Dichloroethene	112	108	59-142	6	30				
1,2-Dichloropropane	109	107	62-135	4	30				
1,3-Dichloropropane	97	97	58-129	3	30				
2,2-Dichloropropane	106	102	53-147	7	30				
1,1-Dichloropropene	116	112	54-145	6	30				
cis-1,3-Dichloropropene	98	98	51-131	2	30				
trans-1,3-Dichloropropene	89	90	49-129	1	30				
Ethylbenzene	104	103	44-141	4	30				
Freon 113	101	96	56-156	7	30				
Freon 133a	85	85	61-131	23	30				
Hexachlorobutadiene	109	112	10-155	0	30				
2-Hexanone	98	97	32-160	3	30				
Isopropylbenzene	109	106	38-144	5	30				
p-Isopropyltoluene	110	109	29-152	3	30				
Methyl Tertiary Butyl Ether	88	87	55-129	3	30				
4-Methyl-2-pentanone	83	86	46-139	1	30				
Methylene Chloride	82	79	61-141	5	30				
n-Propylbenzene	113	111	39-157	4	30				
Styrene	97	95	35-134	5	30				
1,1,1,2-Tetrachloroethane	107	104	52-130	4	30				
1,1,2,2-Tetrachloroethane	91	92	40-152	2	30				
Tetrachloroethene	126	122	42-149	6	30				
Toluene	109	106	50-146	5	30				
1,2,3-Trichlorobenzene	84	89	10-140	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trichlorobenzene	80	85	10-136	5	30				
1,1,1-Trichloroethane	113	110	64-142	5	30				
1,1,2-Trichloroethane	98	97	54-139	3	30				
Trichloroethene	109	106	53-144	5	30				
Trichlorofluoromethane	89	85	47-163	7	30				
1,2,3-Trichloropropane	95	96	45-154	1	30				
1,2,4-Trimethylbenzene	105	103	37-149	4	30				
1,3,5-Trimethylbenzene	108	107	38-150	4	30				
Vinyl Chloride	79	80	50-154	2	30				
m+p-Xylene	106	103	44-137	5	30				
o-Xylene	101	99	42-137	4	30				
Batch number: E111381AA	Sample number(s): 6288929-6288931,6288933-6288934,6288936,6288938-6288941 UNSPK: 6288929								
1,4-Dioxane	90	89	70-130	1	30				
Batch number: 11139SLG026	Sample number(s): 6288929-6288931,6288933-6288934,6288936-6288939,6288941 UNSPK: 6288929								
Acenaphthene	93	92	63-105	2	30				
Acenaphthylene	90	86	67-114	4	30				
Anthracene	94	94	60-122	0	30				
Benzo(a)anthracene	100	103	59-128	3	30				
Benzo(a)pyrene	99	103	45-138	4	30				
Benzo(b)fluoranthene	111	111	43-155	1	30				
Benzo(g,h,i)perylene	110	113	33-141	3	30				
Benzo(k)fluoranthene	101	103	42-144	1	30				
Butylbenzylphthalate	112	115	57-173	3	30				
Di-n-butylphthalate	107	110	65-148	2	30				
Chrysene	99	104	48-134	6	30				
Dibenz(a,h)anthracene	111	113	22-133	2	30				
Diethylphthalate	101	96	70-136	5	30				
Dimethylphthalate	99	96	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	132	136	39-167	3	30				
Fluoranthene	103	107	26-166	4	30				
Fluorene	99	96	66-122	3	30				
Indeno(1,2,3-cd)pyrene	110	112	21-143	2	30				
1-Methylnaphthalene	98	92	72-123	6	30				
2-Methylnaphthalene	87	82	64-103	6	30				
Naphthalene	97	85	61-102	12	30				
N-Nitrosodimethylamine	87	79	48-113	11	30				
Di-n-octylphthalate	124	123	40-192	0	30				
Phenanthrene	93	96	12-165	3	30				
Pyrene	97	99	15-153	2	30				
Batch number: 11139SLH026	Sample number(s): 6288929-6288931,6288933-6288934,6288936-6288941 UNSPK: 6288929								
Acenaphthene	94	97	75-115	3	30				
Acenaphthylene	97	99	81-110	2	30				
Aniline	83	76	35-95	9	30				
Anthracene	95	97	75-115	2	30				
Benzidine	32*	22*	35-141	36*	30				
Benzo(a)anthracene	96	98	65-122	1	30				
Benzo(a)pyrene	92	96	57-126	4	30				
Benzo(b)fluoranthene	95	97	59-125	2	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(g,h,i)perylene	83	90	59-127	8	30				
Benzo(k)fluoranthene	94	95	56-132	2	30				
Benzoic acid	62	52	10-173	18	30				
Benzyl alcohol	95	93	67-115	3	30				
4-Bromophenyl-phenylether	93	98	67-129	6	30				
Butylbenzylphthalate	95	96	73-134	1	30				
Di-n-butylphthalate	90	91	67-123	0	30				
Carbazole	93	95	64-120	2	30				
4-Chloro-3-methylphenol	94	91	76-110	3	30				
4-Chloroaniline	73	67	23-95	8	30				
bis(2-Chloroethoxy)methane	95	93	75-104	3	30				
bis(2-Chloroethyl)ether	93	91	60-116	2	30				
bis(2-Chloroisopropyl)ether	90	85	55-142	5	30				
2-Chloronaphthalene	89	90	50-141	2	30				
2-Chlorophenol	96	94	73-121	2	30				
4-Chlorophenyl-phenylether	93	98	80-109	5	30				
Chrysene	91	96	62-128	5	30				
Dibenz(a,h)anthracene	87	91	65-125	4	30				
Dibenzofuran	96	98	71-112	2	30				
1,2-Dichlorobenzene	86	82	66-108	5	30				
1,3-Dichlorobenzene	84	77	63-109	8	30				
1,4-Dichlorobenzene	85	79	70-100	8	30				
3,3'-Dichlorobenzidine	68	63	16-119	8	30				
2,4-Dichlorophenol	98	97	78-117	0	30				
Diethylphthalate	91	92	66-118	1	30				
2,4-Dimethylphenol	94	91	78-110	3	30				
3,5-Dimethylphenol	103	102	70-130	1	30				
Dimethylphthalate	94	95	64-118	1	30				
4,6-Dinitro-2-methylphenol	56	39	24-116	35*	30				
2,4-Dinitrophenol	29	18*	20-143	48*	30				
2,4-Dinitrotoluene	98	96	73-113	2	30				
2,6-Dinitrotoluene	96	97	69-123	0	30				
1,2-Diphenylhydrazine	98	100	71-129	2	30				
bis(2-Ethylhexyl)phthalate	90	91	63-122	1	30				
Fluoranthene	94	96	73-112	2	30				
Fluorene	93	95	77-111	2	30				
Hexachlorobenzene	95	94	77-114	2	30				
Hexachlorobutadiene	86	84	62-120	2	30				
Hexachlorocyclopentadiene	87	88	10-153	1	30				
Hexachloroethane	79	73	57-109	8	30				
Indeno(1,2,3-cd)pyrene	83	89	61-126	7	30				
Isophorone	94	92	73-102	2	30				
1-Methylnaphthalene	93	91	73-112	3	30				
2-Methylnaphthalene	87	87	76-114	0	30				
2-Methylphenol	94	92	75-111	2	30				
4-Methylphenol	100	97	71-111	3	30				
Naphthalene	89	88	72-116	2	30				
2-Nitroaniline	98	99	67-125	1	30				
3-Nitroaniline	93	94	59-122	1	30				
4-Nitroaniline	81	78	52-112	4	30				
Nitrobenzene	93	91	72-106	3	30				
2-Nitrophenol	93	93	74-115	0	30				
4-Nitrophenol	83	83	54-113	0	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitroso-di-n-propylamine	87	86	60-116	1	30				
N-Nitrosodimethylamine	95	88	47-116	8	30				
N-Nitrosodiphenylamine	97	97	86-145	0	30				
Di-n-octylphthalate	98	100	56-126	1	30				
Pentachlorophenol	69	60	28-127	15	30				
Phenanthrene	94	97	65-125	3	30				
Phenol	97	95	58-126	2	30				
Pyrene	103	105	74-126	2	30				
1,2,4-Trichlorobenzene	92	89	72-115	4	30				
2,4,5-Trichlorophenol	94	94	78-109	1	30				
2,4,6-Trichlorophenol	96	98	77-115	2	30				
Batch number: 11143SLE026	Sample number(s): 6288940 UNSPK: P293457								
Acenaphthene	92	92	63-105	0	30				
Acenaphthylene	91	99	67-114	8	30				
Anthracene	103	102	60-122	1	30				
Benzo(a)anthracene	108	103	59-128	5	30				
Benzo(a)pyrene	111	105	45-138	5	30				
Benzo(b)fluoranthene	117	112	43-155	4	30				
Benzo(g,h,i)perylene	60	55	33-141	9	30				
Benzo(k)fluoranthene	115	112	42-144	2	30				
Butylbenzylphthalate	106	947*	57-173	160*	30				
Di-n-butylphthalate	93	91	65-148	2	30				
Chrysene	101	95	48-134	5	30				
Dibenz(a,h)anthracene	76	71	22-133	6	30				
Diethylphthalate	95	94	70-136	2	30				
Dimethylphthalate	93	101	74-118	9	30				
Bis(2-Ethylhexyl)phthalate	127	101	39-167	19	30				
Fluoranthene	125	122	26-166	2	30				
Fluorene	95	99	66-122	4	30				
Indeno(1,2,3-cd)pyrene	74	68	21-143	8	30				
1-Methylnaphthalene	93	95	72-123	3	30				
2-Methylnaphthalene	84	86	64-103	2	30				
Naphthalene	90	86	61-102	4	30				
N-Nitrosodimethylamine	94	88	48-113	6	30				
Di-n-octylphthalate	104	119	40-192	11	30				
Phenanthrene	96	94	12-165	2	30				
Pyrene	89	85	15-153	5	30				
Batch number: 11146SLE026	Sample number(s): 6288934,6288938-6288941 UNSPK: P296047								
N-Nitrosodimethylamine	24*	24*	70-130	1	30				
Batch number: 111430006A	Sample number(s): 6288938 UNSPK: P291999								
4-Amino-2,6-Dinitrotoluene	95	104	80-127	10	50				
2-Amino-4,6-Dinitrotoluene	97	106	80-137	11	50				
1,3-Dinitrobenzene	104	111	38-166	9	50				
2,4-Dinitrotoluene	93	102	80-131	11	50				
2,6-Dinitrotoluene	93	99	80-127	9	50				
HMX	83	91	63-128	12	50				
Nitrobenzene	115	125	80-125	10	50				
Nitroglycerin	92	99	80-120	10	50				
2-Nitrotoluene	94	101	80-122	9	50				
3-Nitrotoluene	97	104	72-119	9	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Nitrotoluene	93	100	80-125	9	50				
PETN	109	118	80-121	10	50				
RDX	80	90	75-129	13	50				
Tetryl	60	69	55-174	15	50				
1,3,5-Trinitrobenzene	90	101	82-126	13	50				
2,4,6-Trinitrotoluene	91	100	82-130	11	50				
Batch number: 111450004A	Sample number(s): 6288934,6288939-6288941 UNSPK: P290754								
4-Amino-2,6-Dinitrotoluene	109	109	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	113	113	80-137	0	50				
1,3-Dinitrobenzene	117	117	38-166	0	50				
2,4-Dinitrotoluene	107	107	80-131	0	50				
2,6-Dinitrotoluene	106	106	80-127	0	50				
HMX	99	99	63-128	0	50				
Nitrobenzene	128*	128*	80-125	0	50				
Nitroglycerin	106	106	80-120	0	50				
2-Nitrotoluene	105	105	80-122	1	50				
3-Nitrotoluene	107	107	72-119	0	50				
4-Nitrotoluene	104	104	80-125	0	50				
PETN	126*	125*	80-121	1	50				
RDX	96	97	75-129	1	50				
Tetryl	74	73	55-174	0	50				
1,3,5-Trinitrobenzene	107	106	82-126	0	50				
2,4,6-Trinitrotoluene	108	107	82-130	0	50				
Batch number: 111400002A	Sample number(s): 6288934,6288938-6288941 UNSPK: P291999								
25a Formaldehyde 8315A	90	89	80-120	1	50				
Batch number: 111390003A	Sample number(s): 6288938 UNSPK: P285036								
6a Perchlorate EPA 6850	100	102	80-120	2	20				
Batch number: 111380023A	Sample number(s): 6288929-6288931,6288933-6288934,6288936-6288941 UNSPK: 6288929								
PCB-1016	96	98	29-146	2	50				
PCB-1260	113	114	39-149	0	50				
Batch number: 111380034A	Sample number(s): 6288934,6288938-6288941 UNSPK: P281100								
EFH (C12-C14)	70	73	49-123	3	20				
EFH (C15-C20)	86	90	49-123	3	20				
EFH (C21-C30)	101	104	49-123	2	20				
EFH (C30 - C40)	64	71	49-123	7	20				
EFH (C8-C11)	70	67	49-123	5	20				
Batch number: 111370018A	Sample number(s): 6288934,6288938-6288941 UNSPK: 6288934								
Diethylene glycol	40*	44*	59-109	9	20				
Ethylene glycol	71	80	63-107	12	20				
Propylene glycol	78	87	63-107	11	20				
Batch number: 111390030A	Sample number(s): 6288934,6288938-6288941 UNSPK: P291999								
Ethanol	42*	33*	48-130	24*	20				
Isopropanol	66	64	12-149	3	20				
Methanol	55	52	43-138	5	20				
Batch number: 111390019A	Sample number(s): 6288934,6288939-6288941 UNSPK: 6288934								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
m-Terphenyl	0*	0*	75-125	0	20				
o-Terphenyl	96	100	75-125	4	20				
p-Terphenyl	0*	92	75-125	200*	20				
Batch number: 111460029A	Sample number(s): 6288938 UNSPK: P294833								
m-Terphenyl	84	84	75-125	1	20				
o-Terphenyl	99	100	75-125	1	20				
p-Terphenyl	95	97	75-125	2	20				
Batch number: 111371026001A	Sample number(s): 6288929-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
Antimony	64*	68*	75-125	7	20	0.274	0.210	27* (1)	20
Arsenic	208 (2)	216 (2)	75-125	2	20	7.95	7.53	5	20
Beryllium	129*	141*	75-125	6	20	0.974	0.865	12	20
Cadmium	119	124	75-125	7	20	0.0810 J	0.0385 U	200* (1)	20
Chromium	170*	145*	75-125	5	20	24.9	22.5	10	20
Cobalt	127*	118	75-125	4	20	8.09	5.56	37*	20
Copper	122	117	75-125	1	20	9.75	6.87	35*	20
Lead	171*	174*	75-125	2	20	7.52	6.82	10	20
Nickel	148*	142*	75-125	0	20	16.6	13.6	20	20
Silver	124	119	75-125	1	20	0.731	0.163	127* (1)	20
Thallium	118	125	75-125	6	20	0.259	0.208	22* (1)	20
Vanadium	220 (2)	210 (2)	75-125	1	20	48.3	44.2	9	20
Zinc	42 (2)	34 (2)	75-125	1	20	46.0	37.9	19	20
Batch number: 111371026001B	Sample number(s): 6288929-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
Selenium	117	113	75-125	1	20	0.217 J	0.203 J	7 (1)	20
Batch number: 111371026001C	Sample number(s): 6288929-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
Molybdenum	137*	130*	75-125	2	20	1.32	1.50	13	20
Batch number: 111371026001D	Sample number(s): 6288929-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
Barium	248 (2)	282 (2)	75-125	3	20	105	85.3	21*	20
Batch number: 111375708002	Sample number(s): 6288929-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
Aluminum	3976 (2)	3125 (2)	75-125	4	20	29,600	31,000	4	20
Boron	95	96	84-115	4	20	7.21	7.60	5 (1)	20
Calcium	104 (2)	115 (2)	75-125	2	20	2,680	2,590	4	20
Iron	2168 (2)	1389 (2)	75-125	3	20	24,700	24,500	1	20
Lithium	104	102	82-114	1	20	28.2	27.6	2	20
Magnesium	243 (2)	209 (2)	75-125	1	20	5,030	4,790	5	20
Manganese	147 (2)	144 (2)	75-125	0	20	221	172	25*	20
Phosphorus	96	87	75-125	2	20	283	255	10	20
Potassium	109	101	75-125	2	20	1,590	1,250	24*	20
Sodium	100	100	75-125	2	20	98.7	95.6 J	3 (1)	20
Strontium	102	101	75-115	1	20	20.1	19.9	1	20
Tin	86	88	80-110	5	20	2.98 J	2.88 J	4 (1)	20
Titanium	249 (2)	243 (2)	75-125	0	20	1,270	1,200	6	20
Zirconium	94	94	75-125	3	20	4.60 J	4.94	7 (1)	20
Batch number: 111375711002	Sample number(s): 6288929-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
Mercury	96	103	65-135	11	20	0.0028 U	0.0044 J	200* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11140243201A	Sample number(s): 6288929-6288930,6288932-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
3a Cr VI by EPA 7199	91		75-125			0.51 J	0.57 J	10 (1)	20
Batch number: 11141621201A	Sample number(s): 6288929-6288930,6288932-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
7a Perchlorate EPA 314.0	89		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11141621202B	Sample number(s): 6288929-6288930,6288932-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
11a Anions by 300.0 - Fluoride	34*		80-120			0.80 U	0.80 U	0 (1)	20
11a Anions by 300.0 - Nitrate	112		80-120			2.3	2.3	2 (1)	20
Batch number: 11144102201A	Sample number(s): 6288934,6288938-6288941 UNSPK: P286418 BKG: P286418								
17a Cyanide by 9012B	98		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11139039402A	Sample number(s): 6288929,6288932-6288934,6288936-6288937 BKG: 6288929								
18a pH by 9045C						6.53	6.48	1	3
Batch number: 11139039402B	Sample number(s): 6288938-6288941 BKG: 6288941								
18a pH by 9045C						7.97	8.08	1	3
Batch number: 11139182102A	Sample number(s): 6288929,6288932-6288934,6288936-6288937 BKG: 6288929								
32a OR Potential						389	400	3	6
Batch number: 11139182102B	Sample number(s): 6288938-6288941 BKG: 6288941								
32a OR Potential						369	372	1	6
Batch number: 11144162401A	Sample number(s): 6288929-6288933,6288936-6288937 BKG: 6288929								
28a Moisture Content by 160.3						12.2	12.0	1	20
Moisture Content by 160.3						12.2	12.0	1	20
Moisture Content by 160.3						12.2	12.0	1	20
Batch number: 11158162401B	Sample number(s): 6288938 BKG: P300341								
Moisture Content by 160.3						15.9	15.4	3	20
Batch number: 11160162401A	Sample number(s): 6288934,6288939-6288941 BKG: 6288941								
Moisture Content by 160.3						11.8	12.4	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111401AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6288929	105	107	102	94

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Surrogate Quality Control

6288930	102	104	105	96
6288931	102	103	104	96
6288933	104	108	98	92
6288934	104	103	100	94
6288936	105	109	98	92
6288938	105	103	103	86
6288939	105	105	103	90
6288940	103	102	102	87
6288941	104	103	101	90
Blank	103	103	100	91
LCS	104	109	103	98
MS	102	104	105	96
MSD	102	103	104	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111371AA

	Toluene-d8
6288935	100
6288942	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111381AA

	Toluene-d8
6288929	98
6288930	99
6288931	98
6288933	99
6288934	99
6288936	98
6288938	98
6288939	98
6288940	98
6288941	98
Blank	99
LCS	99
LCSD	99
MS	99
MSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111372AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6288935	100	102	101	98
6288942	100	100	99	98
Blank	99	101	101	99

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Surrogate Quality Control

LCS	102	99	102	101
LCSD	103	100	102	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11138WAD026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6288935	55	33	107	85	84	74
Blank	54	32	105	86	86	73
LCS	47	29	99	81	81	73
LCSD	56	36	103	83	84	76
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11138WAG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6288935	96	101	110
Blank	106	114	122
LCS	109	104	109
LCSD	105	101	105
Limits:	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11139SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6288929	106	99	103
6288930	110	95	100
6288931	103	95	106
6288933	105	98	103
6288934	104	98	101
6288936	102	98	107
6288937	95	92	100
6288938	111	100	106
6288939	105	96	97
6288941	107	98	95
Blank	101	103	106
LCS	121	104	105
MS	110	95	100
MSD	103	95	106
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11139SLH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6288929	75	77	73	75	77	76
6288930	96	96	88	89	91	89
6288931	96	96	91	88	93	94
6288933	86	89	80	83	83	85
6288934	89	92	80	84	86	86

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Surrogate Quality Control

6288936	90	91	77	84	87	90
6288937	89	90	79	83	84	90
6288938	88	90	76	83	83	85
6288939	88	88	75	79	84	90
6288940	88	89	71	81	82	88
6288941	90	88	67	81	85	89
Blank	86	91	81	84	87	80
LCS	95	95	84	89	90	89
MS	96	96	88	89	91	89
MSD	96	96	91	88	93	94
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11143SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6288940	106	93	88
Blank	121	106	112
LCS	104	96	98
MS	107	90	95
MSD	102	95	91
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11146SLE026

	N-Nitrosodimethylamine-d6
6288934	79
6288938	104
6288939	93
6288940	93
6288941	86
Blank	91
LCS	104
MS	164*
MSD	143
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11139A34A

	Trifluorotoluene-F
6288934	80
6288938	76
6288939	77
6288940	68
6288941	72
Blank	81
LCS	88
LCSD	86
Limits:	61-122

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Surrogate Quality Control

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11143A20A

	Trifluorotoluene-F
6288942	72
Blank	72
LCS	119
LCSD	113
Limits:	63-135

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111380016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6288935	121	96
Blank	118	64
LCS	89	57
LCSD	113	81
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111380023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6288929	99	97
6288930	99	107
6288931	103	105
6288933	130	128*
6288934	132	113
6288936	119	118
6288937	113	111
6288938	104	113
6288939	108	103
6288940	117	112
6288941	98	96
Blank	118	118
LCS	120	115
LCSD	112	117
MS	99	107
MSD	103	105
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111400002A

	Butyraldehyde
6288934	126
6288938	122
6288939	125
6288940	129*
6288941	126
Blank	125
LCS	119
MS	112

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Surrogate Quality Control

MSD 116

Limits: 64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111430006A

	2-Nitro-m-xylene
6288938	122
Blank	114
LCS	121
LCSD	114
MS	101
MSD	99

Limits: 80-146

Analysis Name: 16a Energetics by 8330A
Batch number: 111450004A

	2-Nitro-m-xylene
6288934	127
6288939	123
6288940	121
6288941	131
Blank	136
LCS	123
LCSD	32*
MS	115
MSD	116

Limits: 80-146

Analysis Name: 21a Glycols by 8015B
Batch number: 111370018A

	Tetramethylene glycol
6288934	88
6288938	89
6288939	90
6288940	88
6288941	89
Blank	90
LCS	99
MS	91
MSD	93

Limits: 29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111380034A

	Chlorobenzene	Orthoterphenyl
6288934	69	79
6288938	67	75
6288939	59	64
6288940	70	76

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Quality Control Summary

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Reported: 06/21/11 at 01:43 PM

Surrogate Quality Control

6288941	67	77
Blank	73	78
LCS	81	83
MS	66	75
MSD	67	76
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111390019A
n-Triacontane-d62

6288934	92
6288939	86
6288940	90
6288941	85
Blank	90
LCS	90
MS	84
MSD	93
Limits:	50-150

Analysis Name: 19a Alcohols by 8015B
Batch number: 111390030A
Acetone

6288934	74
6288938	69
6288939	73
6288940	69
6288941	71
Blank	84
LCS	83
MS	77
MSD	77
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111460029A
n-Triacontane-d62

6288938	91
Blank	88
LCS	86
MS	92
MSD	98
Limits:	50-150

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13013 1247140 6288929-42

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers' Signature: Tina Pham for Tina Pham

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-042-SA5A-SB-4.0MS	5.16.11	1125	SOIL	NONE	12-Encores										X	X											
SL-042-SA5A-SB-3.5-4.5MS	5.16.11	1130	SOIL	NONE	6-16 oz jars	X	X	X	X	X	X	X	X														
DUP-17-SA5A-QC-051611	5.16.11	1135	SOIL	NONE	4-Encores										X	X											
DUP-17-SA5A-QC-051611	5.16.11	1137	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-167-SA5A-SB-1.5	5.16.11	1620	SOIL	NONE	5-Encores										X	X	X										
SL-167-SA5A-SB-1.0-2.0	5.16.11	1617	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB15-SA5A-SB-051611	5.16.11	1430	WATER	NONE	5-1 L ambers			X	X	X																	
EB15-SA5A-SB-051611	5.16.11	1430	WATER	HNO3	1-500 mL poly	X																					
EB15-SA5A-SB-051611	5.16.11	1430	WATER	NONE	1-500 mL poly		X				X	X	X														
EB15-SA5A-SB-051611	5.16.11	1430	WATER	HCl	6-40 mL vials										X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
Tina Pham	05/16/2011 / 1700	Barry Herb 5/17/11 940	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8695 1441 7766; 8695 1441 7777 8695 1441 7788	

13013 1247140 6288929-42

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	**Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER		DATE	TIME	MATRIX	Preservative	Type & No. of Containers																					
SL-002-SA5DN-SB-4.5		05.16.11	1545	SOIL	NONE	5-Encores									X	X											
SL-002-SA5DN-SB-4.0-5.0		05.16.11	1548	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X													
SL-002-SA5DN-SB-9.0-10.0		05.16.11	1552	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X													
SL-003-SA5DN-SB-1.0		05.16.11	1040	SOIL	NONE	5-Encores									X	X	X										
SL-003-SA5DN-SB-0.5-1.5		05.16.11	1043	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
SL-003-SA5DN-SB-8.5		05.16.11	1047	SOIL	NONE	5-Encores									X	X	X										
SL-003-SA5DN-SB-8.0-9.0		05.16.11	1050	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
SL-004-SA5DN-SB-4.0		05.16.11	1235	SOIL	NONE	5-Encores									X	X	X										
SL-004-SA5DN-SB-3.5-4.5		05.16.11	1239	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
SL-004-SA5DN-SB-9.5		05.16.11	1243	SOIL	NONE	5-Encores									X	X	X										
SL-004-SA5DN-SB-9.0-10.0		05.16.11	1247	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
TB-051611		05.16.11	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X										TRIP BLANK
Relinquished by: (Signature)		Date/Time 05/16/2011 / 1700		Received for Laboratory by: (Signature) Mary Yeh 5/17/11 940																							Laboratory: Lancaster Laboratories, Inc.
Received by:		Date/Time		Airbill No.(s) 8695 1441 7766; 8695 1441 7777 8695 1441 7788																							

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/17/2011
Group Number: 1247142
SDG: DX081
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-042-SA5A-SB-3.5-4.5 Soil	6288954
SL-042-SA5A-SB-3.5-4.5MS Soil	6288955
SL-042-SA5A-SB-3.5-4.5MSD Soil	6288956
DUP-17-SA5A-QC-051611 Soil	6288957
SL-167-SA5A-SB-1.0-2.0 Soil	6288958
EB15-SA5A-SB-051611 Water	6288959
SL-002-SA5DN-SB-4.0-5.0 Soil	6288960
SL-002-SA5DN-SB-9.0-10.0 Soil	6288961
SL-003-SA5DN-SB-0.5-1.5 Soil	6288962
SL-003-SA5DN-SB-8.0-9.0 Soil	6288963
SL-004-SA5DN-SB-3.5-4.5 Soil	6288964
SL-004-SA5DN-SB-9.0-10.0 Soil	6288965

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288954
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288954
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	12.6	B	0.0543	5.45	1
11031	1234678-HpCDF	67562-39-4	2.06	JB	0.0221	5.45	1
11031	1234789-HpCDF	55673-89-7	0.371	JB	0.0364	5.45	1
11031	123478-HxCDD	39227-28-6	0.178	JB	0.0546	5.45	1
11031	123478-HxCDF	70648-26-9	0.215	JB	0.0417	5.45	1
11031	123678-HxCDD	57653-85-7	0.579	JB	0.0550	5.45	1
11031	123678-HxCDF	57117-44-9	0.196	JB	0.0356	5.45	1
11031	123789-HxCDD	19408-74-3	0.260	JB	0.0469	5.45	1
11031	123789-HxCDF	72918-21-9	0.157	JB	0.0388	5.45	1
11031	12378-PeCDD	40321-76-4	0.101	JBQ	0.0352	5.45	1
11031	12378-PeCDF	57117-41-6	0.0835	JBQ	0.0171	5.45	1
11031	234678-HxCDF	60851-34-5	0.292	JB	0.0313	5.45	1
11031	23478-PeCDF	57117-31-4	0.111	JB	0.0189	5.45	1
11031	2378-TCDD	1746-01-6	0.0210	U	0.0210	1.09	1
11031	2378-TCDF	51207-31-9	0.0432	J	0.0260	1.09	1
11031	OCDD	3268-87-9	150	B	0.0451	10.9	1
11031	OCDF	39001-02-0	4.68	JB	0.0519	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288954
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288954
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 14:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288955
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288955
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	120	B	0.0797	5.59	1
11031	1234678-HpCDF	67562-39-4	104	B	0.0510	5.59	1
11031	1234789-HpCDF	55673-89-7	105	B	0.0850	5.59	1
11031	123478-HxCDD	39227-28-6	105	B	0.0672	5.59	1
11031	123478-HxCDF	70648-26-9	104	B	0.0880	5.59	1
11031	123678-HxCDD	57653-85-7	103	B	0.0680	5.59	1
11031	123678-HxCDF	57117-44-9	102	B	0.0726	5.59	1
11031	123789-HxCDD	19408-74-3	105	B	0.0651	5.59	1
11031	123789-HxCDF	72918-21-9	104	B	0.0859	5.59	1
11031	12378-PeCDD	40321-76-4	108	B	0.0610	5.59	1
11031	12378-PeCDF	57117-41-6	102	B	0.0377	5.59	1
11031	234678-HxCDF	60851-34-5	105	B	0.0714	5.59	1
11031	23478-PeCDF	57117-31-4	101	B	0.0377	5.59	1
11031	2378-TCDD	1746-01-6	21.7	B	0.0338	1.12	1
11031	2378-TCDF	51207-31-9	22.2		0.0542	1.12	1
11031	OCDD	3268-87-9	369	B	0.0718	11.2	1
11031	OCDF	39001-02-0	218	B	0.0771	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288955
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288955
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 15:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288956
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288956
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	178	B	0.109	5.64	1
11031	1234678-HpCDF	67562-39-4	114	B	0.0589	5.64	1
11031	1234789-HpCDF	55673-89-7	108	B	0.101	5.64	1
11031	123478-HxCDD	39227-28-6	108	B	0.0874	5.64	1
11031	123478-HxCDF	70648-26-9	106	B	0.112	5.64	1
11031	123678-HxCDD	57653-85-7	109	B	0.0899	5.64	1
11031	123678-HxCDF	57117-44-9	104	B	0.0960	5.64	1
11031	123789-HxCDD	19408-74-3	108	B	0.0880	5.64	1
11031	123789-HxCDF	72918-21-9	103	B	0.128	5.64	1
11031	12378-PeCDD	40321-76-4	108	B	0.0798	5.64	1
11031	12378-PeCDF	57117-41-6	104	B	0.0458	5.64	1
11031	234678-HxCDF	60851-34-5	108	B	0.0993	5.64	1
11031	23478-PeCDF	57117-31-4	103	B	0.0459	5.64	1
11031	2378-TCDD	1746-01-6	21.5	B	0.0427	1.13	1
11031	2378-TCDF	51207-31-9	21.9		0.0811	1.13	1
11031	OCDD	3268-87-9	924	B	0.0970	11.3	1
11031	OCDF	39001-02-0	242	B	0.0812	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288956
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288956
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 15:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: **DUP-17-SA5A-QC-051611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288957
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP17 SDG#: DX081-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-17-SA5A-QC-051611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288957
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP17 SDG#: DX081-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	24.2	B	0.0586	5.54	1
11031	1234678-HpCDF	67562-39-4	4.92	JB	0.0194	5.54	1
11031	1234789-HpCDF	55673-89-7	1.11	JB	0.0365	5.54	1
11031	123478-HxCDD	39227-28-6	0.421	JB	0.0468	5.54	1
11031	123478-HxCDF	70648-26-9	0.543	JB	0.0400	5.54	1
11031	123678-HxCDD	57653-85-7	1.42	JB	0.0493	5.54	1
11031	123678-HxCDF	57117-44-9	0.512	JB	0.0330	5.54	1
11031	123789-HxCDD	19408-74-3	0.701	JB	0.0487	5.54	1
11031	123789-HxCDF	72918-21-9	0.403	JB	0.0395	5.54	1
11031	12378-PeCDD	40321-76-4	0.307	JBQ	0.0377	5.54	1
11031	12378-PeCDF	57117-41-6	0.253	JB	0.0200	5.54	1
11031	234678-HxCDF	60851-34-5	0.773	JB	0.0325	5.54	1
11031	23478-PeCDF	57117-31-4	0.343	JBQ	0.0202	5.54	1
11031	2378-TCDD	1746-01-6	0.114	JB	0.0232	1.11	1
11031	2378-TCDF	51207-31-9	0.102	J	0.0383	1.11	1
11031	OCDD	3268-87-9	247	B	0.0435	11.1	1
11031	OCDF	39001-02-0	10.9	JB	0.0356	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-17-SA5A-QC-051611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288957
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP17 SDG#: DX081-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP-17-SA5A-QC-051611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288957
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP17 SDG#: DX081-09FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 16:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-167-SA5A-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288958
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD167 SDG#: DX081-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-167-SA5A-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288958
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD167 SDG#: DX081-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	8.84	B	0.0606	5.30	1
11031	1234678-HpCDF	67562-39-4	1.70	JB	0.0227	5.30	1
11031	1234789-HpCDF	55673-89-7	0.172	JBQ	0.0361	5.30	1
11031	123478-HxCDD	39227-28-6	0.0329	U	0.0329	5.30	1
11031	123478-HxCDF	70648-26-9	0.337	JB	0.0314	5.30	1
11031	123678-HxCDD	57653-85-7	0.324	JB	0.0339	5.30	1
11031	123678-HxCDF	57117-44-9	0.128	JB	0.0272	5.30	1
11031	123789-HxCDD	19408-74-3	0.156	JB	0.0312	5.30	1
11031	123789-HxCDF	72918-21-9	0.104	JBQ	0.0311	5.30	1
11031	12378-PeCDD	40321-76-4	0.0568	JBQ	0.0237	5.30	1
11031	12378-PeCDF	57117-41-6	0.0854	JBQ	0.0193	5.30	1
11031	234678-HxCDF	60851-34-5	0.126	JBQ	0.0280	5.30	1
11031	23478-PeCDF	57117-31-4	0.0833	JB	0.0188	5.30	1
11031	2378-TCDD	1746-01-6	0.0278	JBQ	0.0195	1.06	1
11031	2378-TCDF	51207-31-9	0.0288	JQ	0.0250	1.06	1
11031	OCDD	3268-87-9	214	B	0.0489	10.6	1
11031	OCDF	39001-02-0	5.40	JB	0.0342	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-167-SA5A-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288958
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD167 SDG#: DX081-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-167-SA5A-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288958
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD167 SDG#: DX081-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 17:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB15-SA5A-SB-051611 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288959
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB15 SDG#: DX081-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	1234678-HpCDD	35822-46-9	3.17	J	0.640	10.7	1
10915	1234678-HpCDF	67562-39-4	2.21	J	0.288	10.7	1
10915	1234789-HpCDF	55673-89-7	1.01	J	0.346	10.7	1
10915	123478-HxCDD	39227-28-6	0.449	J	0.367	10.7	1
10915	123478-HxCDF	70648-26-9	0.477	J	0.239	10.7	1
10915	123678-HxCDD	57653-85-7	0.644	JQ	0.393	10.7	1
10915	123678-HxCDF	57117-44-9	0.609	J	0.231	10.7	1
10915	123789-HxCDD	19408-74-3	0.749	J	0.372	10.7	1
10915	123789-HxCDF	72918-21-9	0.577	JQ	0.246	10.7	1
10915	12378-PeCDD	40321-76-4	0.430	JQ	0.311	10.7	1
10915	12378-PeCDF	57117-41-6	0.168	J	0.164	10.7	1
10915	234678-HxCDF	60851-34-5	0.879	JQ	0.218	10.7	1
10915	23478-PeCDF	57117-31-4	0.720	J	0.142	10.7	1
10915	2378-TCDD	1746-01-6	0.482	JQ	0.279	2.14	1
10915	2378-TCDF	51207-31-9	0.206	U	0.206	2.14	1
10915	OCDD	3268-87-9	5.95	JQ	0.500	21.4	1
10915	OCDF	39001-02-0	0.932	JQ	0.586	21.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	44	25 - 164
13C12-12378-PeCDD	43	25 - 181
13C12-123478-HxCDD	41	32 - 141
13C12-123678-HxCDD	42	28 - 130
13C12-123789-HxCDD	42	28 - 130
13C12-1234678-HpCDD	40	23 - 140
13C12-OCDD	39	17 - 157
13C12-2378-TCDF	48	24 - 169
13C12-12378-PeCDF	43	24 - 185
13C12-23478-PeCDF	46	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	44	26 - 123
13C12-234678-HxCDF	47	28 - 136
13C12-123789-HxCDF	46	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	42	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB15-SA5A-SB-051611 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288959
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB15 SDG#: DX081-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137002	05/20/2011 08:58	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11137002	05/18/2011 07:30	Deborah M Zimmerman	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288960
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0024 SDG#: DX081-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-002-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288960
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0024 SDG#: DX081-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	0.341	JB	0.0414	5.66	1
11031	1234678-HpCDF	67562-39-4	0.134	JBQ	0.0117	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0634	JBQ	0.0247	5.66	1
11031	123478-HxCDD	39227-28-6	0.0265	U	0.0265	5.66	1
11031	123478-HxCDF	70648-26-9	0.0352	JB	0.0231	5.66	1
11031	123678-HxCDD	57653-85-7	0.133	JB	0.0278	5.66	1
11031	123678-HxCDF	57117-44-9	0.0415	JBQ	0.0189	5.66	1
11031	123789-HxCDD	19408-74-3	0.244	JBQ	0.0281	5.66	1
11031	123789-HxCDF	72918-21-9	0.343	JB	0.0266	5.66	1
11031	12378-PeCDD	40321-76-4	0.0810	JBQ	0.0340	5.66	1
11031	12378-PeCDF	57117-41-6	0.0609	JBQ	0.0176	5.66	1
11031	234678-HxCDF	60851-34-5	0.0924	JBQ	0.0196	5.66	1
11031	23478-PeCDF	57117-31-4	0.0564	JBQ	0.0180	5.66	1
11031	2378-TCDD	1746-01-6	0.0272	U	0.0272	1.13	1
11031	2378-TCDF	51207-31-9	0.0287	U	0.0287	1.13	1
11031	OCDD	3268-87-9	1.53	JB	0.0346	11.3	1
11031	OCDF	39001-02-0	0.315	JBQ	0.0682	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288960
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0024 SDG#: DX081-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-002-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288960
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0024 SDG#: DX081-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 18:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-002-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288961
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0029 SDG#: DX081-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-002-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288961
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0029 SDG#: DX081-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	0.280	JB	0.0269	5.55	1
11031	1234678-HpCDF	67562-39-4	0.111	JBQ	0.00826	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0403	JBQ	0.0158	5.55	1
11031	123478-HxCDD	39227-28-6	0.0179	U	0.0179	5.55	1
11031	123478-HxCDF	70648-26-9	0.0526	JB	0.0143	5.55	1
11031	123678-HxCDD	57653-85-7	0.0314	JB	0.0181	5.55	1
11031	123678-HxCDF	57117-44-9	0.0350	JBQ	0.0115	5.55	1
11031	123789-HxCDD	19408-74-3	0.0544	JB	0.0181	5.55	1
11031	123789-HxCDF	72918-21-9	0.0501	JBQ	0.0154	5.55	1
11031	12378-PeCDD	40321-76-4	0.0262	JBQ	0.0206	5.55	1
11031	12378-PeCDF	57117-41-6	0.0124	JBQ	0.0118	5.55	1
11031	234678-HxCDF	60851-34-5	0.0501	JBQ	0.0122	5.55	1
11031	23478-PeCDF	57117-31-4	0.0636	JBQ	0.0119	5.55	1
11031	2378-TCDD	1746-01-6	0.0205	U	0.0205	1.11	1
11031	2378-TCDF	51207-31-9	0.0203	J	0.0192	1.11	1
11031	OCDD	3268-87-9	1.77	JBQ	0.0231	11.1	1
11031	OCDF	39001-02-0	0.263	JBQ	0.0352	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288961
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0029 SDG#: DX081-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288961
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0029 SDG#: DX081-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 19:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-003-SA5DN-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288962
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0030 SDG#: DX081-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA5DN-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288962
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0030 SDG#: DX081-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	1.11	JB	0.0365	5.95	1
11031	1234678-HpCDF	67562-39-4	0.291	JB	0.0120	5.95	1
11031	1234789-HpCDF	55673-89-7	0.126	JB	0.0235	5.95	1
11031	123478-HxCDD	39227-28-6	0.0898	JB	0.0277	5.95	1
11031	123478-HxCDF	70648-26-9	0.179	JBQ	0.0255	5.95	1
11031	123678-HxCDD	57653-85-7	0.615	JB	0.0286	5.95	1
11031	123678-HxCDF	57117-44-9	0.144	JB	0.0210	5.95	1
11031	123789-HxCDD	19408-74-3	0.988	JB	0.0282	5.95	1
11031	123789-HxCDF	72918-21-9	1.09	JB	0.0288	5.95	1
11031	12378-PeCDD	40321-76-4	0.226	JBQ	0.0297	5.95	1
11031	12378-PeCDF	57117-41-6	0.367	JB	0.0185	5.95	1
11031	234678-HxCDF	60851-34-5	0.136	JB	0.0238	5.95	1
11031	23478-PeCDF	57117-31-4	0.241	JBQ	0.0199	5.95	1
11031	2378-TCDD	1746-01-6	0.0227	U	0.0227	1.19	1
11031	2378-TCDF	51207-31-9	0.143	J	0.0409	1.19	1
11031	OCDD	3268-87-9	11.9	B	0.0307	11.9	1
11031	OCDF	39001-02-0	0.704	JBQ	0.0421	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	105	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	112	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	100	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA5DN-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288962
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0030 SDG#: DX081-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-003-SA5DN-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288962
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0030 SDG#: DX081-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 20:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-003-SA5DN-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288963
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0038 SDG#: DX081-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288963
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0038 SDG#: DX081-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	0.377	JB	0.0275	5.55	1
11031	1234678-HpCDF	67562-39-4	0.194	JB	0.0102	5.55	1
11031	1234789-HpCDF	55673-89-7	0.110	JBQ	0.0159	5.55	1
11031	123478-HxCDD	39227-28-6	0.0831	JB	0.0229	5.55	1
11031	123478-HxCDF	70648-26-9	0.133	JBQ	0.0187	5.55	1
11031	123678-HxCDD	57653-85-7	0.108	JBQ	0.0228	5.55	1
11031	123678-HxCDF	57117-44-9	0.110	JB	0.0166	5.55	1
11031	123789-HxCDD	19408-74-3	0.101	JBQ	0.0227	5.55	1
11031	123789-HxCDF	72918-21-9	0.194	JBQ	0.0179	5.55	1
11031	12378-PeCDD	40321-76-4	0.163	JBQ	0.0236	5.55	1
11031	12378-PeCDF	57117-41-6	0.203	JBQ	0.0124	5.55	1
11031	234678-HxCDF	60851-34-5	0.131	JBQ	0.0162	5.55	1
11031	23478-PeCDF	57117-31-4	0.184	JB	0.0130	5.55	1
11031	2378-TCDD	1746-01-6	0.0860	JB	0.0179	1.11	1
11031	2378-TCDF	51207-31-9	0.0652	JQ	0.0177	1.11	1
11031	OCDD	3268-87-9	1.11	JBQ	0.0255	11.1	1
11031	OCDF	39001-02-0	0.369	JB	0.0409	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA5DN-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288963
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0038 SDG#: DX081-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-003-SA5DN-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288963
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0038 SDG#: DX081-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/24/2011 00:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5DN-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288964
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0043 SDG#: DX081-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288964
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0043 SDG#: DX081-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	0.658	JB	0.0316	5.98	1
11031	1234678-HpCDF	67562-39-4	0.205	JB	0.0109	5.98	1
11031	1234789-HpCDF	55673-89-7	0.105	JB	0.0255	5.98	1
11031	123478-HxCDD	39227-28-6	0.0813	JB	0.0219	5.98	1
11031	123478-HxCDF	70648-26-9	0.135	JBQ	0.0237	5.98	1
11031	123678-HxCDD	57653-85-7	0.563	JB	0.0226	5.98	1
11031	123678-HxCDF	57117-44-9	0.125	JB	0.0186	5.98	1
11031	123789-HxCDD	19408-74-3	0.939	JB	0.0224	5.98	1
11031	123789-HxCDF	72918-21-9	1.54	JB	0.0284	5.98	1
11031	12378-PeCDD	40321-76-4	0.218	JBQ	0.0400	5.98	1
11031	12378-PeCDF	57117-41-6	0.437	JBQ	0.0156	5.98	1
11031	234678-HxCDF	60851-34-5	0.124	JB	0.0207	5.98	1
11031	23478-PeCDF	57117-31-4	0.166	JBQ	0.0174	5.98	1
11031	2378-TCDD	1746-01-6	0.0555	JBQ	0.0260	1.20	1
11031	2378-TCDF	51207-31-9	0.0292	U	0.0292	1.20	1
11031	OCDD	3268-87-9	6.06	JB	0.0291	12.0	1
11031	OCDF	39001-02-0	0.373	JBQ	0.0501	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5DN-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288964
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0043 SDG#: DX081-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-004-SA5DN-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288964
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0043 SDG#: DX081-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/24/2011 01:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288965
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0049 SDG#: DX081-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288965
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0049 SDG#: DX081-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	1234678-HpCDD	35822-46-9	0.211 JB	0.0222	5.60	1
11031	1234678-HpCDF	67562-39-4	0.115 JBQ	0.00816	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0549 JBQ	0.0141	5.60	1
11031	123478-HxCDD	39227-28-6	0.0311 JBQ	0.0164	5.60	1
11031	123478-HxCDF	70648-26-9	0.0860 JBQ	0.0115	5.60	1
11031	123678-HxCDD	57653-85-7	0.0625 JBQ	0.0171	5.60	1
11031	123678-HxCDF	57117-44-9	0.0673 JB	0.0101	5.60	1
11031	123789-HxCDD	19408-74-3	0.0650 JBQ	0.0170	5.60	1
11031	123789-HxCDF	72918-21-9	0.0638 JBQ	0.0138	5.60	1
11031	12378-PeCDD	40321-76-4	0.110 JB	0.0230	5.60	1
11031	12378-PeCDF	57117-41-6	0.0833 JBQ	0.0116	5.60	1
11031	234678-HxCDF	60851-34-5	0.0696 JB	0.0115	5.60	1
11031	23478-PeCDF	57117-31-4	0.0952 JB	0.0119	5.60	1
11031	2378-TCDD	1746-01-6	0.0274 JBQ	0.0172	1.12	1
11031	2378-TCDF	51207-31-9	0.0461 JQ	0.0181	1.12	1
11031	OCDD	3268-87-9	0.602 JB	0.0218	11.2	1
11031	OCDF	39001-02-0	0.212 JB	0.0321	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288965
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0049 SDG#: DX081-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288965
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0049 SDG#: DX081-17*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/24/2011 02:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247142
Reported: 06/10/11 at 09:14 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11144162401A	Sample number(s): 6288954-6288957,6288960-6288961								
Moisture Content by 160.3					100		80-120		
Batch number: 11158162401B	Sample number(s): 6288962								
Moisture Content by 160.3					100		80-120		
Batch number: 11160162401A	Sample number(s): 6288958,6288963-6288965								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11137002	Sample number(s): 6288959								
2378-TCDD	0.128 J	0.105	2.00	pg/l	83		67-158		
2378-TCDF	0.106 J	0.0908	2.00	pg/l	97		75-158		
12378-PeCDD	0.307 J	0.118	10.0	pg/l	87		70-142		
12378-PeCDF	0.0606 U	0.0606	10.0	pg/l	94		80-134		
23478-PeCDF	0.588 J	0.0553	10.0	pg/l	92		68-160		
123478-HxCDD	0.220 J	0.104	10.0	pg/l	88		70-164		
123678-HxCDD	0.252 J	0.107	10.0	pg/l	88		76-134		
123789-HxCDD	0.381 J	0.103	10.0	pg/l	88		64-162		
123478-HxCDF	0.400 J	0.0767	10.0	pg/l	92		72-134		
123678-HxCDF	0.354 J	0.0743	10.0	pg/l	91		84-130		
123789-HxCDF	0.396 J	0.0781	10.0	pg/l	89		78-130		
234678-HxCDF	0.399 J	0.0725	10.0	pg/l	94		70-156		
1234678-HpCDD	1.77 J	0.168	10.0	pg/l	89		70-140		
1234678-HpCDF	1.41 J	0.0722	10.0	pg/l	89		82-122		
1234789-HpCDF	0.428 J	0.0855	10.0	pg/l	87		78-138		
OCDD	3.80 J	0.197	20.0	pg/l	93		78-144		
OCDF	1.48 J	0.192	20.0	pg/l	93		63-170		
Batch number: 11140001	Sample number(s): 6288954-6288958,6288960-6288965								
2378-TCDD	0.0352 J	0.0244	1.00	ng/kg	96		67-158		
2378-TCDF	0.0234 U	0.0234	1.00	ng/kg	98		75-158		
12378-PeCDD	0.0656 J	0.0264	5.00	ng/kg	96		70-142		
12378-PeCDF	0.0647 J	0.0171	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0777 J	0.0174	5.00	ng/kg	92		68-160		
123478-HxCDD	0.0299 J	0.0190	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0525 J	0.0195	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0535 J	0.0189	5.00	ng/kg	94		64-162		
123478-HxCDF	0.0532 J	0.0160	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0551 J	0.0137	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0750 J	0.0191	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0526 J	0.0148	5.00	ng/kg	95		70-156		
1234678-HpCDD	0.220 J	0.0328	5.00	ng/kg	94		70-140		
1234678-HpCDF	0.126 J	0.0103	5.00	ng/kg	90		82-122		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247142
Reported: 06/10/11 at 09:14 AM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234789-HpCDF	0.125	J	0.0196	5.00	ng/kg	94		78-138		
OCDD	0.489	J	0.0326	10.0	ng/kg	94		78-144		
OCDF	0.335	J	0.0459	10.0	ng/kg	95		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11144162401A	Sample number(s): 6288954-6288957,6288960-6288961 BKG: P288929								
Moisture Content by 160.3						12.2	12.0	1	20
Batch number: 11158162401B	Sample number(s): 6288962 BKG: P300341								
Moisture Content by 160.3						15.9	15.4	3	20
Batch number: 11160162401A	Sample number(s): 6288958,6288963-6288965 BKG: P288941								
Moisture Content by 160.3						11.8	12.4	4	20
Batch number: 11140001	Sample number(s): 6288954-6288958,6288960-6288965 UNSPK: 6288954								
2378-TCDD	97	95	67-158	1	25				
2378-TCDF	99	97	75-158	1	25				
12378-PeCDD	96	96	70-142	0	25				
12378-PeCDF	91	92	80-134	2	25				
23478-PeCDF	90	91	68-160	2	25				
123478-HxCDD	94	96	70-164	3	25				
123678-HxCDD	92	96	76-134	6	25				
123789-HxCDD	94	95	64-162	3	25				
123478-HxCDF	93	94	72-134	2	25				
123678-HxCDF	91	92	84-130	2	25				
123789-HxCDF	93	91	78-130	1	25				
234678-HxCDF	94	95	70-156	2	25				
1234678-HpCDD	96	147*	70-140	39*	25				
1234678-HpCDF	91	100	82-122	9	25				
1234789-HpCDF	94	95	78-138	2	25				
OCDD	98	343*	78-144	86*	25				
OCDF	95	105	63-170	10	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11137002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6288959	44	46	44	44	47	46
Blank	90	94	93	95	96	103
OPR	80	84	84	84	88	90

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247142
Reported: 06/10/11 at 09:14 AM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6288959	42	42	41	71	43	41
Blank	87	86	80	93	90	86
OPR	80	82	78	79	81	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6288959	42	42	40	39	48	43
Blank	86	86	80	75	92	94
OPR	80	81	74	72	82	84
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11140001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6288954	68	63	49	57	62	62
6288955	73	74	60	70	72	71
6288956	70	75	64	73	70	66
6288957	70	78	59	71	69	70
6288958	77	82	62	69	71	73
6288960	67	66	58	70	64	59
6288961	72	75	62	73	66	64
6288962	87	93	75	88	77	76
6288963	83	81	71	77	76	86
6288964	72	77	62	77	67	61
6288965	81	84	71	81	69	67
Blank	76	76	67	77	71	66
MS	73	74	60	70	72	71
MSD	70	75	64	73	70	66
OPR	69	77	54	62	68	73

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6288954	73	57	55	79	69	64
6288955	85	66	64	86	77	77
6288956	88	68	69	83	79	77
6288957	92	65	65	85	85	78
6288958	87	70	71	86	87	75
6288960	88	55	52	84	75	74
6288961	90	61	60	88	85	77
6288962	112	72	72	100	105	91
6288963	88	73	70	90	84	82
6288964	105	58	54	91	88	80
6288965	90	67	65	90	91	76
Blank	93	63	62	96	83	84
MS	85	66	64	86	77	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247142
Reported: 06/10/11 at 09:14 AM

Surrogate Quality Control

MSD	88	68	69	83	79	77
OPR	79	69	71	88	85	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6288954	63	74	73	77	64	71
6288955	79	80	81	84	70	80
6288956	76	77	83	87	69	80
6288957	75	76	84	87	66	85
6288958	76	81	83	89	73	87
6288960	75	74	75	76	62	74
6288961	76	79	81	85	65	83
6288962	90	91	96	99	79	102
6288963	82	84	84	82	80	88
6288964	78	80	87	88	64	90
6288965	78	77	81	82	78	94
Blank	83	84	85	82	68	82
MS	79	80	81	84	70	80
MSD	76	77	83	87	69	80
OPR	72	77	84	89	65	81
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1247142 6288954-65

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers:
Signature: Tina Pham for Tina Pham

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-042-SA5A-SB-4.0MS	5.16.11	1125	SOIL	NONE	12-Encores										X	X											
SL-042-SA5A-SB-3.5-4.5MS	5.16.11	1130	SOIL	NONE	6-16 oz jars	X	X	X	X	X	X	X	X														
DUP-17-SA5A-QC-051611	5.16.11	1135	SOIL	NONE	4-Encores										X	X											
DUP-17-SA5A-QC-051611	5.16.11	1137	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-167-SA5A-SB-1.5	5.16.11	1620	SOIL	NONE	5-Encores										X	X	X										
SL-167-SA5A-SB-1.0-2.0	5.16.11	1617	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB15-SA5A-SB-051611	5.16.11	1430	WATER	NONE	5-1 L ambers			X	X	X																	
EB15-SA5A-SB-051611	5.16.11	1430	WATER	HNO3	1-500 mL poly	X																					
EB15-SA5A-SB-051611	5.16.11	1430	WATER	NONE	1-500 mL poly		X				X	X	X														
EB15-SA5A-SB-051611	5.16.11	1430	WATER	HCl	6-40 mL vials										X	X											

Relinquished by: (Signature) Tina Pham
Date/Time: 05/16/2011 / 1700
Received for Laboratory by: (Signature) Harry Hurlan 5/17/11 940

Received by: (Signature)
Date/Time
Airbill No.(s)
8695 1441 7766; 8695 1441 7777
8695 1441 7788

Laboratory:
Lancaster Laboratories, Inc.

13013 1247142 6288954-65

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-002-SA5DN-SB-4.5	05.16.11	1545	SOIL	NONE	5-Encores									X	X											
SL-002-SA5DN-SB-4.0-5.0	05.16.11	1548	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X													
SL-002-SA5DN-SB-9.0-10.0	05.16.11	1552	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X													
SL-003-SA5DN-SB-1.0	05.16.11	1040	SOIL	NONE	5-Encores									X	X	X										
SL-003-SA5DN-SB-0.5-1.5	05.16.11	1043	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
SL-003-SA5DN-SB-8.5	05.16.11	1047	SOIL	NONE	5-Encores									X	X	X										
SL-003-SA5DN-SB-8.0-9.0	05.16.11	1050	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
SL-004-SA5DN-SB-4.0	05.16.11	1235	SOIL	NONE	5-Encores									X	X	X										
SL-004-SA5DN-SB-3.5-4.5	05.16.11	1239	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
SL-004-SA5DN-SB-9.5	05.16.11	1243	SOIL	NONE	5-Encores									X	X	X										
SL-004-SA5DN-SB-9.0-10.0	05.16.11	1247	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
TB-051611	05.16.11	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 05/16/2011 / 1700

Received by. — Date/Time

Received for Laboratory by: (Signature) Mary Hecht 5/17/11 940

Airbill No.(s)
8695 1441 7766; 8695 1441 7777
8695 1441 7788

Laboratory:
Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 16, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/18/2011
Group Number: 1247434
SDG: DE152
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-254-SA5A-SS-0.0-0.5 Soil	6290752
DUP-01-SA5DN-QC-051711 Soil	6290753
SL-066-SA5DN-SS-0.0-0.5 Soil	6290754
SL-067-SA5DN-SS-0.0-0.5 Soil	6290755
SL-072-SA5DN-SS-0.0-0.5 Soil	6290756
SL-072-SA5DN-SS-0.0-0.5MS Soil	6290757
SL-072-SA5DN-SS-0.0-0.5MSD Soil	6290758
SL-072-SA5DN-SS-0.0-0.5DUP Soil	6290759
SL-074-SA5DN-SS-0.0-0.5 Soil	6290760
SL-075-SA5DN-SS-0.0-0.5 Soil	6290761
SL-076-SA5DN-SS-0.0-0.5 Soil	6290762
SL-079-SA5DN-SS-0.0-0.5 Soil	6290763
SL-080-SA5DN-SS-0.0-0.5 Soil	6290764
SL-081-SA5DN-SS-0.0-0.5 Soil	6290765
SL-082-SA5DN-SS-0.0-0.5 Soil	6290766
SL-083-SA5DN-SS-0.0-0.5 Soil	6290767
SL-084-SA5DN-SS-0.0-0.5 Soil	6290768
SL-206-SA5DN-SS-0.0-0.5 Soil	6290769
EB01-SA5DN-SS-051711 Water	6290770

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-254-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290752
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2540 SDG#: DE152-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-254-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290752
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2540 SDG#: DE152-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.35	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.8		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.8		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	13		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.9	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	3.7		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.1	18		1
10138	Fluoranthene	206-44-0	4.7		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	1.1	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	8.1	J	6.1	18		1
10138	Phenanthrene	85-01-8	2.0		0.68	1.7		1
10138	Pyrene	129-00-0	4.3		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	7.1	U	7.1	7.1		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.1	U	2.1	2.1		1
10401	MCPA	94-74-6	880		78	260		1
10401	MCPP (Mecoprop)	93-65-2	200	U	200	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1

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Sample Description: **SL-254-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290752
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2540 SDG#: DE152-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.33	U	0.33	0.35		1
01363	p,p-DDE	72-55-9	8.4		0.34	1.7		5
01363	p,p-DDT	50-29-3	5.1		0.34	1.7		5
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.22	U	0.22	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.34	U	0.34	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.13	U	0.13	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.081	U	0.081	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.047	U	0.047	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.23	U	0.23	0.35		1
01363	Toxaphene	8001-35-2	16	U	16	16		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	14		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	1.5	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		4.97	19.7		1
07914	Boron	7440-42-8	11.3		0.879	4.94		1
01650	Calcium	7440-70-2	2,320		6.05	19.7		1
01654	Iron	7439-89-6	17,800		4.65	19.7		1
01656	Lithium	7439-93-2	19.4		0.22	2.0		1
01657	Magnesium	7439-95-4	3,980		2.51	9.87		1
06958	Manganese	7439-96-5	253		0.0770	0.494		1
10145	Phosphorus	7723-14-0	400		0.553	9.87		1
01662	Potassium	7440-09-7	3,270		17.8	49.4		1

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Sample Description: **SL-254-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290752
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2540 SDG#: DE152-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	63.4	J	36.8	98.7		1
07968	Strontium	7440-24-6	15.3		0.0612	0.494		1
06969	Tin	7440-31-5	2.46	J	0.987	9.87		1
06970	Titanium	7440-32-6	975		0.375	0.987		1
10146	Zirconium	7440-67-7	0.829	U	0.829	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0610	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.27		0.0813	0.407		2
06126	Barium	7440-39-3	87.8		0.110	0.407		2
06127	Beryllium	7440-41-7	0.389		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.253		0.0407	0.102		2
06131	Chromium	7440-47-3	15.8		0.122	0.407		2
06132	Cobalt	7440-48-4	4.76		0.0203	0.102		2
06133	Copper	7440-50-8	7.90		0.0671	0.407		2
06135	Lead	7439-92-1	9.94		0.0106	0.203		2
06138	Molybdenum	7439-98-7	0.430		0.0508	0.102		2
06139	Nickel	7440-02-0	9.97		0.102	0.407		2
06141	Selenium	7782-49-2	0.126	J	0.0407	0.407		2
06142	Silver	7440-22-4	0.0586	J	0.0122	0.102		2
06145	Thallium	7440-28-0	0.186		0.0305	0.102		2
06148	Vanadium	7440-62-2	29.7		0.0224	0.102		2
06149	Zinc	7440-66-6	68.4		0.569	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0066	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.6		0.50	0.50		1

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Sample Description: **SL-254-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290752
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2540 SDG#: DE152-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/23/2011 19:51	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/21/2011 11:30	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 00:58	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 10:17	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 10:32	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011 21:34	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2

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Sample Description: **SL-254-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290752
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2540 SDG#: DE152-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 05:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 11:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 16:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/23/2011 23:27	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-01-SA5DN-QC-051711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290753
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE152-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	51	J	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: **DUP-01-SA5DN-QC-051711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290753
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE152-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	5.6	J	3.7	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	5.9	J	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	27		3.7	9.1		5
10138	Benzo(a)pyrene	50-32-8	33		3.7	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	48		3.7	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	18		3.7	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	15		3.7	9.1		5
10138	Chrysene	218-01-9	46		1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	9.7		3.7	9.1		5
10138	Fluoranthene	206-44-0	84		3.7	9.1		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		3.7	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.1		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.1		5
10138	Di-n-octylphthalate	117-84-0	42	J	33	99		5
10138	Phenanthrene	85-01-8	57		3.7	9.1		5
10138	Pyrene	129-00-0	63		3.7	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	3.0		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	340		84	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.10	J	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.36	U	0.36	0.92		5
01363	Alpha BHC	319-84-6	0.19	U	0.19	0.92		5

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Sample Description: **DUP-01-SA5DN-QC-051711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290753
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE152-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.33	U	0.33	0.92		5
01363	Gamma BHC - Lindane	58-89-9	0.19	U	0.19	0.92		5
01363	Chlordane	57-74-9	4.4	U	4.4	19		5
01363	p,p-DDD	72-54-8	4.2	U	4.2	4.2		5
01363	p,p-DDE	72-55-9	0.51	U	0.51	1.9		5
01363	p,p-DDT	50-29-3	2.4	U	2.4	2.4		5
01363	Delta BHC	319-86-8	0.32	U	0.32	0.92		5
01363	Dieldrin	60-57-1	0.36	U	0.36	1.9		5
01363	Endosulfan I	959-98-8	0.24	U	0.24	0.92		5
01363	Endosulfan II	33213-65-9	0.77	U	0.77	1.9		5
01363	Endosulfan Sulfate	1031-07-8	12	U	12	12		5
01363	Endrin	72-20-8	1.3	U	1.3	1.9		5
01363	Endrin Aldehyde	7421-93-4	0.51	U	0.51	1.9		5
01363	Endrin Ketone	53494-70-5	0.36	U	0.36	1.9		5
01363	Heptachlor	76-44-8	0.33	U	0.33	0.92		5
01363	Heptachlor Epoxide	1024-57-3	0.24	U	0.24	0.92		5
01363	Methoxychlor	72-43-5	1.9	U	1.9	9.2		5
01363	Mirex	2385-85-5	1.7	U	1.7	1.9		5
01363	Toxaphene	8001-35-2	12	U	12	36		5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	2.0		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,200		5.44	21.6		1
07914	Boron	7440-42-8	20.8		0.962	5.40		1
01650	Calcium	7440-70-2	24,400		6.63	21.6		1
01654	Iron	7439-89-6	28,100		5.09	21.6		1
01656	Lithium	7439-93-2	21.9		0.24	2.2		1
01657	Magnesium	7439-95-4	6,200		2.75	10.8		1

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Sample Description: **DUP-01-SA5DN-QC-051711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290753
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE152-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	345		0.0843	0.540		1
10145	Phosphorus	7723-14-0	617		0.605	10.8		1
01662	Potassium	7440-09-7	4,640		19.5	54.0		1
01667	Sodium	7440-23-5	154		40.3	108		1
07968	Strontium	7440-24-6	62.8		0.0670	0.540		1
06969	Tin	7440-31-5	2.64	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,180		0.411	1.08		1
10146	Zirconium	7440-67-7	2.15	J	0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.379		0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.41		0.0865	0.432		2
06126	Barium	7440-39-3	95.3		0.117	0.432		2
06127	Beryllium	7440-41-7	0.620		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.349		0.0432	0.108		2
06131	Chromium	7440-47-3	23.8		0.130	0.432		2
06132	Cobalt	7440-48-4	7.74		0.0216	0.108		2
06133	Copper	7440-50-8	16.0		0.0713	0.432		2
06135	Lead	7439-92-1	10.8		0.0112	0.216		2
06138	Molybdenum	7439-98-7	2.41		0.0540	0.108		2
06139	Nickel	7440-02-0	20.6		0.108	0.432		2
06141	Selenium	7782-49-2	0.227	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0382	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.270		0.0324	0.108		2
06148	Vanadium	7440-62-2	48.4		0.0238	0.108		2
06149	Zinc	7440-66-6	112		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0053	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.79	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.04		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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Sample Description: **DUP-01-SA5DN-QC-051711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290753
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE152-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	9.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/23/2011	20:18	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011	09:01	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011	09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011	09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011	01:26	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011	11:13	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011	21:52	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011	14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011	01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011	10:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011	10:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011	10:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011	10:27	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-01-SA5DN-QC-051711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290753
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE152-02FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 05:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 11:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 16:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/23/2011 23:40	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.4	U	18.4	36.7		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	1.9	J	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	11		3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	12		3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	13		3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	7.7	J	3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	12		3.6	9.1		5
10138	Chrysene	218-01-9	15		1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	9.0	J	3.6	9.1		5
10138	Fluoranthene	206-44-0	20		3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.9	J	3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Di-n-octylphthalate	117-84-0	42	J	33	98		5
10138	Phenanthrene	85-01-8	9.4		3.6	9.1		5
10138	Pyrene	129-00-0	16		3.6	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-066-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	13	U	13	13		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.8	U	2.8	2.8		1
10401	MCPA	94-74-6	2,400		84	280		1
10401	MCPP (Mecoprop)	93-65-2	350		83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1

Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	5.6	U	5.6	5.6		1
01363	p,p-DDD	72-54-8	0.33	U	0.33	0.37		1
01363	p,p-DDE	72-55-9	3.6		0.36	1.9		5
01363	p,p-DDT	50-29-3	6.7		0.36	1.9		5
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.30	U	0.30	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.30	U	0.30	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.22	U	0.22	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.12	U	0.12	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.18	U	0.18	0.37		1
01363	Toxaphene	8001-35-2	19	U	19	19		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	6.4		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	3.0		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C15-C20)	n.a.	1.9	J	0.88	2.6		2
10199	EFH (C21-C30)	n.a.	30		0.88	2.6		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-066-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C30 - C40)	n.a.	91		0.88	2.6		2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.6		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	150	J	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	17	U	17	39		10
10318	o-Terphenyl	84-15-1	17	U	17	39		10
10318	p-Terphenyl	92-94-4	17	U	17	39		10
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,500		5.38	21.4		1
07914	Boron	7440-42-8	21.2		0.952	5.35		1
01650	Calcium	7440-70-2	4,680		6.55	21.4		1
01654	Iron	7439-89-6	30,400		25.2	107		5
01656	Lithium	7439-93-2	20.9		0.24	2.1		1
01657	Magnesium	7439-95-4	6,080		2.72	10.7		1
06958	Manganese	7439-96-5	512		0.0834	0.535		1
10145	Phosphorus	7723-14-0	322		0.599	10.7		1
01662	Potassium	7440-09-7	5,390		19.2	53.5		1
01667	Sodium	7440-23-5	110		39.9	107		1
07968	Strontium	7440-24-6	34.4		0.0663	0.535		1
06969	Tin	7440-31-5	2.82	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,300		0.406	1.07		1
10146	Zirconium	7440-67-7	2.43	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.698		0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.28		0.0864	0.432		2
06126	Barium	7440-39-3	182		0.117	0.432		2
06127	Beryllium	7440-41-7	0.993		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.762		0.0432	0.108		2
06131	Chromium	7440-47-3	36.0		0.130	0.432		2

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Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	15.6		0.0216	0.108		2
06133	Copper	7440-50-8	27.1		0.0713	0.432		2
06135	Lead	7439-92-1	20.4		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.813		0.0540	0.108		2
06139	Nickel	7440-02-0	27.7		0.108	0.432		2
06141	Selenium	7782-49-2	0.244	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0866	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.464		0.0324	0.108		2
06148	Vanadium	7440-62-2	66.0		0.0238	0.108		2
06149	Zinc	7440-66-6	152		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.242		0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.1		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	J	0.20	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.17		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-066-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 19:30	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/23/2011 20:45	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 09:32	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 04:54	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 20:03	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 01:53	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111390003A	05/19/2011 18:40	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 12:07	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 12:20	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011 22:11	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111390003A	05/19/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 09:05	Tracy A Cole	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 01:02	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 09:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/25/2011 11:44	Melissa McDermott	10
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 22:07	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1

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Sample Description: **SL-066-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 09:58	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11143621202A	05/25/2011 09:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 17:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/23/2011 23:52	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:06	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE152-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.4	U	18.4	36.7		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)pyrene	50-32-8	110	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	57	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	19	J	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	120	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	42	J	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	55	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1

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Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE152-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	12		0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.81	J	0.37	1.8		1
10138	Anthracene	120-12-7	17		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	99		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	160		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	62		0.73	1.8		1
10138	Di-n-butylphthalate	84-74-2	6.7	J	6.6	20		1
10138	Dibenz(a,h)anthracene	53-70-3	10		0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	20		6.6	20		1
10138	Fluoranthene	206-44-0	260		0.73	1.8		1
10138	Fluorene	86-73-7	5.7		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	1.3	J	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.73	1.8		1
10138	Naphthalene	91-20-3	1.7	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	9.4	J	6.6	20		1
10138	Phenanthrene	85-01-8	110		0.73	1.8		1
10138	Pyrene	129-00-0	260		0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1

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Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE152-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	7.9	U	7.9	7.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	1,200		84	270		1
10401	MCPP (Mecoprop)	93-65-2	120	J	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1

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Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

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SL067 SDG#: DE152-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.5	U	2.5	3.7		1
01363	p,p-DDD	72-54-8	0.80	U	0.80	0.80		1
01363	p,p-DDE	72-55-9	1.1		0.073	0.37		1
01363	p,p-DDT	50-29-3	1.3		0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.091	U	0.091	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.067	U	0.067	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.27	U	0.27	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	8.1		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	3.1		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C15-C20)	n.a.	4.0		0.88	2.6		2
10199	EFH (C21-C30)	n.a.	23		0.88	2.6		2
10199	EFH (C30 - C40)	n.a.	52		0.88	2.6		2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.6		2

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Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE152-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	17	U	17	39		10
10318	o-Terphenyl	84-15-1	17	U	17	39		10
10318	p-Terphenyl	92-94-4	17	U	17	39		10
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		5.48	21.8		1
07914	Boron	7440-42-8	20.8		0.970	5.45		1
01650	Calcium	7440-70-2	5,060		6.68	21.8		1
01654	Iron	7439-89-6	30,500		25.7	109		5
01656	Lithium	7439-93-2	21.6		0.24	2.2		1
01657	Magnesium	7439-95-4	5,790		2.77	10.9		1
06958	Manganese	7439-96-5	492		0.0851	0.545		1
10145	Phosphorus	7723-14-0	289		0.611	10.9		1
01662	Potassium	7440-09-7	4,400		19.6	54.5		1
01667	Sodium	7440-23-5	118		40.7	109		1
07968	Strontium	7440-24-6	39.3		0.0676	0.545		1
06969	Tin	7440-31-5	3.13	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,120		0.414	1.09		1
10146	Zirconium	7440-67-7	2.71	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.529		0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.81		0.0864	0.432		2
06126	Barium	7440-39-3	170		0.117	0.432		2
06127	Beryllium	7440-41-7	0.992		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.607		0.0432	0.108		2
06131	Chromium	7440-47-3	33.3		0.130	0.432		2
06132	Cobalt	7440-48-4	11.2		0.0216	0.108		2
06133	Copper	7440-50-8	23.4		0.0713	0.432		2
06135	Lead	7439-92-1	19.3		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.775		0.0540	0.108		2
06139	Nickel	7440-02-0	24.1		0.108	0.432		2
06141	Selenium	7782-49-2	0.218	J	0.0432	0.432		2

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Sample Description: **SL-067-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE152-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06142	Silver	7440-22-4	0.0517	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.415		0.0324	0.108		2
06148	Vanadium	7440-62-2	61.8		0.0238	0.108		2
06149	Zinc	7440-66-6	130		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.86		0.0155	0.540		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.3		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 19:47	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/23/2011 21:11	Matthew S Woods	1

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Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL067 SDG#: DE152-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 10:04	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 08:26	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 20:13	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 02:21	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 13:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011 22:30	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 08:15	Tracy A Cole	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 01:17	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 09:31	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/25/2011 12:29	Melissa McDermott	10
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 22:10	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-067-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE152-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:32	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 10:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11143621202A	05/25/2011 10:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 17:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243202A	05/23/2011 23:59	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:10	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290756
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-072-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290756
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5		0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.59	J	0.37	1.8		1
10138	Anthracene	120-12-7	4.5		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	19		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	23		0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	38		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	8.2		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	18		0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	7.3	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	30		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	2.5		0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	14	J	6.6	20		1
10138	Fluoranthene	206-44-0	66		0.74	1.8		1
10138	Fluorene	86-73-7	2.3		0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.5		0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.80	J	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.84	J	0.74	1.8		1
10138	Naphthalene	91-20-3	1.5	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	9.3	J	6.6	20		1
10138	Phenanthrene	85-01-8	33		0.74	1.8		1
10138	Pyrene	129-00-0	54		0.74	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	2.6		0.69	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.3	J	0.89	1.9		1
10401	MCPA	94-74-6	480	U	480	480		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.040	J	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290756
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.19		1
01363	Chlordane	57-74-9	3.1	U	3.1	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.28	U	0.28	0.38		1
01363	p,p-DDT	50-29-3	1.1	U	1.1	1.1		1
01363	Delta BHC	319-86-8	0.18	J	0.040	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.31	U	0.31	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.079	U	0.079	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.8	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	4.7		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		5.56	22.1		1
07914	Boron	7440-42-8	20.2		0.985	5.53		1
01650	Calcium	7440-70-2	28,100		6.78	22.1		1
01654	Iron	7439-89-6	26,200		5.21	22.1		1
01656	Lithium	7439-93-2	19.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,740		2.81	11.1		1
06958	Manganese	7439-96-5	335		0.0863	0.553		1
10145	Phosphorus	7723-14-0	634		0.620	11.1		1
01662	Potassium	7440-09-7	4,330		19.9	55.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-072-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290756
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	124		41.3	111		1
07968	Strontium	7440-24-6	61.2		0.0686	0.553		1
06969	Tin	7440-31-5	2.71	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,050		0.420	1.11		1
10146	Zirconium	7440-67-7	2.74	J	0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.900		0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.98		0.0876	0.438		2
06126	Barium	7440-39-3	125		0.118	0.438		2
06127	Beryllium	7440-41-7	0.727		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.307		0.0438	0.110		2
06131	Chromium	7440-47-3	28.1		0.131	0.438		2
06132	Cobalt	7440-48-4	10.1		0.0219	0.110		2
06133	Copper	7440-50-8	17.8		0.0723	0.438		2
06135	Lead	7439-92-1	12.8		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.655		0.0548	0.110		2
06139	Nickel	7440-02-0	19.8		0.110	0.438		2
06141	Selenium	7782-49-2	0.209	J	0.0438	0.438		2
06142	Silver	7440-22-4	0.0349	J	0.0131	0.110		2
06145	Thallium	7440-28-0	0.297		0.0329	0.110		2
06148	Vanadium	7440-62-2	57.1		0.0241	0.110		2
06149	Zinc	7440-66-6	153		0.613	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.96		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.5		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-072-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290756
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 12:35	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/21/2011 09:55	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/23/2011 23:36	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 15:16	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011 22:48	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:10	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290756
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 10:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 14:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 00:30	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290757
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180		1
04688	Acenaphthylene	208-96-8	1,900		18	180		1
04688	Aniline	62-53-3	1,400		180	550		1
04688	Anthracene	120-12-7	1,700		18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,900		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,900		18	180		1
04688	Benzoic acid	65-85-0	790		180	550		1
04688	Benzyl alcohol	100-51-6	1,900		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,000		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,600		18	180		1
04688	Carbazole	86-74-8	1,600		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		37	180		1
04688	4-Chloroaniline	106-47-8	1,200		74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,900		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,900		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,500		18	180		1
04688	2-Chlorophenol	95-57-8	1,800		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		37	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		18	180		1
04688	Dibenzofuran	132-64-9	1,900		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100		110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,900		18	180		1
04688	Diethylphthalate	84-66-2	1,800		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,900		37	180		1
04688	3,5-Dimethylphenol	108-68-9	1,900		37	180		1
04688	Dimethylphthalate	131-11-3	1,800		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200		180	550		1
04688	2,4-Dinitrophenol	51-28-5	1,500		370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,900		37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		18	370		1
04688	Fluoranthene	206-44-0	1,500		18	180		1
04688	Fluorene	86-73-7	1,900		18	180		1
04688	Hexachlorobenzene	118-74-1	1,700		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700		74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	3,200		180	550		1
04688	Hexachloroethane	67-72-1	1,700		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180		1
04688	Isophorone	78-59-1	1,800		18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290757
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,900	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700	18	180		1
04688	2-Methylphenol	95-48-7	1,900	37	180		1
04688	4-Methylphenol	106-44-5	1,800	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	18	180		1
04688	2-Nitroaniline	88-74-4	1,900	18	180		1
04688	3-Nitroaniline	99-09-2	1,800	37	180		1
04688	4-Nitroaniline	100-01-6	1,700	74	180		1
04688	Nitrobenzene	98-95-3	1,800	18	180		1
04688	2-Nitrophenol	88-75-5	1,800	18	180		1
04688	4-Nitrophenol	100-02-7	1,800	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,900	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,300	18	180		1
04688	Pentachlorophenol	87-86-5	1,300	180	550		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,800	18	180		1
04688	Pyrene	129-00-0	1,800	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	37	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	26	0.74	1.8		1
10138	Acenaphthylene	208-96-8	22	0.37	1.8		1
10138	Anthracene	120-12-7	27	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	46	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	49	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	62	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	18	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	43	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	53	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	26	6.7	20		1
10138	Chrysene	218-01-9	56	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	15	0.74	1.8		1
10138	Diethylphthalate	84-66-2	27	6.7	20		1
10138	Dimethylphthalate	131-11-3	30	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	28	6.7	20		1
10138	Fluoranthene	206-44-0	110	0.74	1.8		1
10138	Fluorene	86-73-7	24	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	21	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	22	0.74	1.8		1

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Sample Description: SL-072-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290757
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	19		0.74	1.8		1
10138	Naphthalene	91-20-3	21		0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	28		0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	32		6.7	20		1
10138	Phenanthrene	85-01-8	69		0.74	1.8		1
10138	Pyrene	129-00-0	89		0.74	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	10		1.3	4.0		1
10401	Dalapon	75-99-0	13		4.9	10		1
10401	2,4-DB	94-82-6	17		0.69	1.9		1
10401	Dicamba	1918-00-9	1.1	J	0.45	1.3		1
10401	Dinoseb	88-85-7	2.9		0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	13		0.89	1.9		1
10401	MCPA	94-74-6	1,600		85	280		1
10401	MCPP (Mecoprop)	93-65-2	960		84	280		1
10401	2,4,5-T	93-76-5	0.91		0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.76		0.084	0.19		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.25		0.074	0.19		1
01363	Alpha BHC	319-84-6	0.38		0.038	0.19		1
01363	Beta BHC	319-85-7	0.51		0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.45		0.038	0.19		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.97		0.074	0.38		1
01363	p,p-DDE	72-55-9	0.95		0.074	0.38		1
01363	p,p-DDT	50-29-3	1.8		0.074	0.38		1
01363	Delta BHC	319-86-8	0.59		0.040	0.19		1
01363	Dieldrin	60-57-1	1.0		0.074	0.38		1
01363	Endosulfan I	959-98-8	0.18	J	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.54		0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.58		0.074	0.38		1
01363	Endrin	72-20-8	0.79		0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.56		0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.44		0.074	0.38		1
01363	Heptachlor	76-44-8	0.39		0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.31		0.038	0.19		1
01363	Methoxychlor	72-43-5	4.2		0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.7		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-072-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290757
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	19		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	21		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,300		5.56	22.1		1
07914	Boron	7440-42-8	240		0.985	5.53		1
01650	Calcium	7440-70-2	26,600		6.78	22.1		1
01654	Iron	7439-89-6	29,400		5.21	22.1		1
01656	Lithium	7439-93-2	138		0.24	2.2		1
01657	Magnesium	7439-95-4	6,770		2.81	11.1		1
06958	Manganese	7439-96-5	411		0.0863	0.553		1
10145	Phosphorus	7723-14-0	638		0.620	11.1		1
01662	Potassium	7440-09-7	6,410		19.9	55.3		1
01667	Sodium	7440-23-5	1,230		41.3	111		1
07968	Strontium	7440-24-6	170		0.0686	0.553		1
06969	Tin	7440-31-5	390		1.11	11.1		1
06970	Titanium	7440-32-6	1,560		0.420	1.11		1
10146	Zirconium	7440-67-7	105		0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.28		0.0651	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.52		0.0868	0.434		2
06126	Barium	7440-39-3	131		0.117	0.434		2
06127	Beryllium	7440-41-7	1.62		0.0174	0.108		2
06128	Cadmium	7440-43-9	1.52		0.0434	0.108		2
06131	Chromium	7440-47-3	40.5		0.130	0.434		2
06132	Cobalt	7440-48-4	70.9		0.0217	0.108		2
06133	Copper	7440-50-8	30.9		0.0716	0.434		2
06135	Lead	7439-92-1	15.4		0.0113	0.217		2
06138	Molybdenum	7439-98-7	13.4		0.0542	0.108		2
06139	Nickel	7440-02-0	34.1		0.108	0.434		2
06141	Selenium	7782-49-2	2.59		0.0434	0.434		2
06142	Silver	7440-22-4	13.0		0.0130	0.108		2
06145	Thallium	7440-28-0	0.822		0.0325	0.108		2
06148	Vanadium	7440-62-2	67.7		0.0239	0.108		2
06149	Zinc	7440-66-6	162		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.177		0.0031	0.109		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290757
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.0	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	496	10.1	33.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	38.5	1.1	5.6		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 13:02	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/21/2011 10:26	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 00:03	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 16:10	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011 23:07	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1

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Sample Description: **SL-072-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290757
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 11:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 15:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 00:42	Parker D Lindstrom	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290758
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		18	180		1
04688	Acenaphthylene	208-96-8	1,700		18	180		1
04688	Aniline	62-53-3	1,400		180	550		1
04688	Anthracene	120-12-7	1,700		18	180		1
04688	Benzidine	92-87-5	1,600	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,700		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		18	180		1
04688	Benzoic acid	65-85-0	1,100		180	550		1
04688	Benzyl alcohol	100-51-6	1,800		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,000		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,700		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	180		1
04688	4-Chloroaniline	106-47-8	1,400		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,300		18	180		1
04688	2-Chlorophenol	95-57-8	1,700		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		37	180		1
04688	Chrysene	218-01-9	1,700		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180		1
04688	Dibenzofuran	132-64-9	1,700		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,800		18	180		1
04688	Diethylphthalate	84-66-2	1,700		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,800		37	180		1
04688	3,5-Dimethylphenol	108-68-9	1,800		37	180		1
04688	Dimethylphthalate	131-11-3	1,700		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600		180	550		1
04688	2,4-Dinitrophenol	51-28-5	2,500		370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		18	370		1
04688	Fluoranthene	206-44-0	1,500		18	180		1
04688	Fluorene	86-73-7	1,700		18	180		1
04688	Hexachlorobenzene	118-74-1	1,500		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,500		73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,100		180	550		1
04688	Hexachloroethane	67-72-1	1,500		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500		18	180		1
04688	Isophorone	78-59-1	1,700		18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-072-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290758
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600		18	180		1
04688	2-Methylphenol	95-48-7	1,700		37	180		1
04688	4-Methylphenol	106-44-5	1,700		37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		18	180		1
04688	2-Nitroaniline	88-74-4	1,800		18	180		1
04688	3-Nitroaniline	99-09-2	1,700		37	180		1
04688	4-Nitroaniline	100-01-6	1,600		73	180		1
04688	Nitrobenzene	98-95-3	1,700		18	180		1
04688	2-Nitrophenol	88-75-5	1,700		18	180		1
04688	4-Nitrophenol	100-02-7	1,600		180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,300		37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,200		18	180		1
04688	Pentachlorophenol	87-86-5	1,300		180	550		1
04688	Phenanthrene	85-01-8	1,700		18	180		1
04688	Phenol	108-95-2	1,600		18	180		1
04688	Pyrene	129-00-0	1,900		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700		37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700		37	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35		0.74	1.8		1
10138	Acenaphthylene	208-96-8	36		0.37	1.8		1
10138	Anthracene	120-12-7	39		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	43		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	45		0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	60		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	17		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	55		0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	72		6.7	20		1
10138	Di-n-butylphthalate	84-74-2	48		6.7	20		1
10138	Chrysene	218-01-9	47		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	20		0.74	1.8		1
10138	Diethylphthalate	84-66-2	38		6.7	20		1
10138	Dimethylphthalate	131-11-3	570	E	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	60		6.7	20		1
10138	Fluoranthene	206-44-0	68		0.74	1.8		1
10138	Fluorene	86-73-7	37		0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	21		0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	35		0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-072-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290758
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	31		0.74	1.8		1
10138	Naphthalene	91-20-3	34		0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	73		6.7	20		1
10138	Phenanthrene	85-01-8	49		0.74	1.8		1
10138	Pyrene	129-00-0	60		0.74	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.5		1.3	4.0		1
10401	Dalapon	75-99-0	18		4.9	10		1
10401	2,4-DB	94-82-6	12		0.69	1.9		1
10401	Dicamba	1918-00-9	1.1	J	0.45	1.3		1
10401	Dinoseb	88-85-7	3.5		0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	11		0.89	1.9		1
10401	MCPA	94-74-6	1,400		85	280		1
10401	MCPP (Mecoprop)	93-65-2	770		84	280		1
10401	2,4,5-T	93-76-5	1.1		0.092	0.19		1
10401	2,4,5-TP	93-72-1	1.1		0.084	0.19		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.17	J	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.25		0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.32		0.038	0.19		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.50		0.074	0.38		1
01363	p,p-DDE	72-55-9	0.69		0.074	0.38		1
01363	p,p-DDT	50-29-3	1.5		0.074	0.38		1
01363	Delta BHC	319-86-8	0.37		0.040	0.19		1
01363	Dieldrin	60-57-1	0.41		0.074	0.38		1
01363	Endosulfan I	959-98-8	0.11	J	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.30	J	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.51		0.074	0.38		1
01363	Endrin	72-20-8	0.44		0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.58		0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.46		0.074	0.38		1
01363	Heptachlor	76-44-8	0.25		0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.22		0.038	0.19		1
01363	Methoxychlor	72-43-5	2.4		0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	7.0		1.1	3.7		1

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Sample Description: **SL-072-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290758
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	22		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	25		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,000		5.56	22.1		1
07914	Boron	7440-42-8	240		0.985	5.53		1
01650	Calcium	7440-70-2	32,000		6.78	22.1		1
01654	Iron	7439-89-6	29,400		5.21	22.1		1
01656	Lithium	7439-93-2	138		0.24	2.2		1
01657	Magnesium	7439-95-4	7,060		2.81	11.1		1
06958	Manganese	7439-96-5	430		0.0863	0.553		1
10145	Phosphorus	7723-14-0	666		0.620	11.1		1
01662	Potassium	7440-09-7	6,580		19.9	55.3		1
01667	Sodium	7440-23-5	1,300		41.3	111		1
07968	Strontium	7440-24-6	180		0.0686	0.553		1
06969	Tin	7440-31-5	387		1.11	11.1		1
06970	Titanium	7440-32-6	1,560		0.420	1.11		1
10146	Zirconium	7440-67-7	105		0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.31		0.0645	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.45		0.0859	0.430		2
06126	Barium	7440-39-3	164		0.116	0.430		2
06127	Beryllium	7440-41-7	1.61		0.0172	0.107		2
06128	Cadmium	7440-43-9	1.67		0.0430	0.107		2
06131	Chromium	7440-47-3	43.3		0.129	0.430		2
06132	Cobalt	7440-48-4	78.7		0.0215	0.107		2
06133	Copper	7440-50-8	34.3		0.0709	0.430		2
06135	Lead	7439-92-1	17.7		0.0112	0.215		2
06138	Molybdenum	7439-98-7	14.6		0.0537	0.107		2
06139	Nickel	7440-02-0	37.0		0.107	0.430		2
06141	Selenium	7782-49-2	2.76		0.0430	0.430		2
06142	Silver	7440-22-4	13.5		0.0129	0.107		2
06145	Thallium	7440-28-0	0.843		0.0322	0.107		2
06148	Vanadium	7440-62-2	74.9		0.0236	0.107		2
06149	Zinc	7440-66-6	193		0.602	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.166		0.0032	0.110		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290758
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 13:29	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/21/2011 10:58	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 00:31	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 16:37	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011 23:25	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-072-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290758
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290759
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,200		5.62	22.3		1
07914	Boron	7440-42-8	20.3		0.994	5.59		1
01650	Calcium	7440-70-2	27,500		6.85	22.3		1
01654	Iron	7439-89-6	28,300		5.26	22.3		1
01656	Lithium	7439-93-2	20.0		0.25	2.2		1
01657	Magnesium	7439-95-4	5,830		2.84	11.2		1
06958	Manganese	7439-96-5	380		0.0872	0.559		1
10145	Phosphorus	7723-14-0	527		0.626	11.2		1
01662	Potassium	7440-09-7	4,470		20.1	55.9		1
01667	Sodium	7440-23-5	110	J	41.7	112		1
07968	Strontium	7440-24-6	61.0		0.0693	0.559		1
06969	Tin	7440-31-5	2.71	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,040		0.425	1.12		1
10146	Zirconium	7440-67-7	3.20	J	0.939	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.307		0.0645	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.91		0.0859	0.430		2
06126	Barium	7440-39-3	91.4		0.116	0.430		2
06127	Beryllium	7440-41-7	0.540		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.254		0.0430	0.107		2
06131	Chromium	7440-47-3	24.6		0.129	0.430		2
06132	Cobalt	7440-48-4	7.90		0.0215	0.107		2
06133	Copper	7440-50-8	13.7		0.0709	0.430		2
06135	Lead	7439-92-1	15.4		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.469		0.0537	0.107		2
06139	Nickel	7440-02-0	15.2		0.107	0.430		2
06141	Selenium	7782-49-2	0.158	J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0333	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.290		0.0322	0.107		2
06148	Vanadium	7440-62-2	45.4		0.0236	0.107		2
06149	Zinc	7440-66-6	115		0.602	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290759
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.00	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:12	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-072-SA5DN-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290759
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 11:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 15:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 01:19	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	32		3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	34		3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	74		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	8.9	J	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	27		3.7	9.2		5
10138	Butylbenzylphthalate	85-68-7	33	U	33	99		5
10138	Di-n-butylphthalate	84-74-2	33	U	33	99		5
10138	Chrysene	218-01-9	34		1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	J	3.7	9.2		5
10138	Diethylphthalate	84-66-2	33	U	33	99		5
10138	Dimethylphthalate	131-11-3	33	U	33	99		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33	U	33	99		5
10138	Fluoranthene	206-44-0	39		3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	9.1	J	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Di-n-octylphthalate	117-84-0	33	U	33	99		5
10138	Phenanthrene	85-01-8	5.6	J	3.7	9.2		5
10138	Pyrene	129-00-0	41		3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	8.7	U	8.7	8.7		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	410		84	280		1
10401	MCPP (Mecoprop)	93-65-2	350		83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.19	U	0.19	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Chlordane	57-74-9	2.0	U	2.0	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.57		0.073	0.37		1
01363	p,p-DDT	50-29-3	1.4		0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.099	J	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.18	U	0.18	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	4.9		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.8	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,800		5.55	22.1		1
07914	Boron	7440-42-8	20.4		0.981	5.51		1
01650	Calcium	7440-70-2	4,820		6.76	22.1		1
01654	Iron	7439-89-6	28,900		5.19	22.1		1
01656	Lithium	7439-93-2	20.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,690		2.80	11.0		1
06958	Manganese	7439-96-5	793		0.0860	0.551		1
10145	Phosphorus	7723-14-0	346		0.617	11.0		1
01662	Potassium	7440-09-7	4,570		19.8	55.1		1
01667	Sodium	7440-23-5	126		41.1	110		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-074-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	35.2		0.0684	0.551		1
06969	Tin	7440-31-5	2.84	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,280		0.419	1.10		1
10146	Zirconium	7440-67-7	1.19	J	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.375		0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.89		0.0882	0.441		2
06126	Barium	7440-39-3	150		0.119	0.441		2
06127	Beryllium	7440-41-7	0.866		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.549		0.0441	0.110		2
06131	Chromium	7440-47-3	29.0		0.132	0.441		2
06132	Cobalt	7440-48-4	10.4		0.0221	0.110		2
06133	Copper	7440-50-8	17.7		0.0728	0.441		2
06135	Lead	7439-92-1	11.8		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.647		0.0551	0.110		2
06139	Nickel	7440-02-0	20.6		0.110	0.441		2
06141	Selenium	7782-49-2	0.203	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0526	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.364		0.0331	0.110		2
06148	Vanadium	7440-62-2	54.4		0.0243	0.110		2
06149	Zinc	7440-66-6	91.8		0.617	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	4.75		0.0305	1.06		10
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.78		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 13:55	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 10:35	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 09:09	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 02:49	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 17:04	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	06/06/2011 18:30	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 09:52	Damary Valentin	10
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 12:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 17:54	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 01:32	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290761
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL075 SDG#: DE152-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	Diethylphthalate	84-66-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	Dimethylphthalate	131-11-3	20	U	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	U	20	410		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290761
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL075 SDG#: DE152-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	U	20	200		1
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.0	U	4.0	10		5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	10		5
10138	Anthracene	120-12-7	2.0	U	2.0	10		5
10138	Benzo(a)anthracene	56-55-3	4.0	U	4.0	10		5
10138	Benzo(a)pyrene	50-32-8	4.0	U	4.0	10		5
10138	Benzo(b)fluoranthene	205-99-2	4.0	U	4.0	10		5
10138	Benzo(g,h,i)perylene	191-24-2	4.0	U	4.0	10		5
10138	Benzo(k)fluoranthene	207-08-9	4.0	U	4.0	10		5
10138	Butylbenzylphthalate	85-68-7	36	U	36	110		5
10138	Di-n-butylphthalate	84-74-2	36	U	36	110		5
10138	Chrysene	218-01-9	2.2	J	2.0	10		5
10138	Dibenz(a,h)anthracene	53-70-3	4.0	U	4.0	10		5
10138	Diethylphthalate	84-66-2	36	U	36	110		5
10138	Dimethylphthalate	131-11-3	36	U	36	110		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	36	U	36	110		5
10138	Fluoranthene	206-44-0	4.0	U	4.0	10		5
10138	Fluorene	86-73-7	4.0	U	4.0	10		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.0	U	4.0	10		5
10138	1-Methylnaphthalene	90-12-0	4.0	U	4.0	10		5
10138	2-Methylnaphthalene	91-57-6	4.0	U	4.0	10		5
10138	Naphthalene	91-20-3	4.0	U	4.0	10		5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	10		5
10138	Di-n-octylphthalate	117-84-0	36	U	36	110		5
10138	Phenanthrene	85-01-8	4.0	U	4.0	10		5
10138	Pyrene	129-00-0	4.0	U	4.0	10		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3		1
10401	Dalapon	75-99-0	5.3	U	5.3	11		1
10401	2,4-DB	94-82-6	1.2	J	0.75	2.1		1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4		1
10401	Dinoseb	88-85-7	0.97	U	0.97	2.9		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.97	U	0.97	2.1		1
10401	MCPA	94-74-6	92	U	92	300		1
10401	MCPP (Mecoprop)	93-65-2	91	U	91	300		1
10401	2,4,5-T	93-76-5	0.099	U	0.099	0.21		1
10401	2,4,5-TP	93-72-1	0.091	U	0.091	0.21		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290761
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL075 SDG#: DE152-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.080	U	0.080	0.20		1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20		1
01363	Beta BHC	319-85-7	0.073	U	0.073	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20		1
01363	Chlordane	57-74-9	1.2	U	1.2	4.1		1
01363	p,p-DDD	72-54-8	0.080	U	0.080	0.41		1
01363	p,p-DDE	72-55-9	0.080	U	0.080	0.41		1
01363	p,p-DDT	50-29-3	0.19	U	0.19	0.41		1
01363	Delta BHC	319-86-8	0.044	U	0.044	0.20		1
01363	Dieldrin	60-57-1	0.080	U	0.080	0.41		1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20		1
01363	Endosulfan II	33213-65-9	0.16	J	0.080	0.41		1
01363	Endosulfan Sulfate	1031-07-8	0.080	U	0.080	0.41		1
01363	Endrin	72-20-8	0.080	U	0.080	0.41		1
01363	Endrin Aldehyde	7421-93-4	0.080	U	0.080	0.41		1
01363	Endrin Ketone	53494-70-5	0.080	U	0.080	0.41		1
01363	Heptachlor	76-44-8	0.073	U	0.073	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.20		1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0		1
01363	Mirex	2385-85-5	2.0		0.080	0.41		1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: p,p-DDT

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	1.4	J	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,800		6.05	24.1		1
07914	Boron	7440-42-8	19.8		1.07	6.02		1
01650	Calcium	7440-70-2	5,780		7.37	24.1		1
01654	Iron	7439-89-6	29,600		5.67	24.1		1

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Sample Description: **SL-075-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290761
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL075 SDG#: DE152-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	23.4		0.26	2.4		1
01657	Magnesium	7439-95-4	6,000		3.06	12.0		1
06958	Manganese	7439-96-5	754		0.0938	0.602		1
10145	Phosphorus	7723-14-0	363		0.674	12.0		1
01662	Potassium	7440-09-7	3,540		21.7	60.2		1
01667	Sodium	7440-23-5	158		44.9	120		1
07968	Strontium	7440-24-6	44.7		0.0746	0.602		1
06969	Tin	7440-31-5	2.92	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,320		0.457	1.20		1
10146	Zirconium	7440-67-7	1.96	J	1.01	6.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.288		0.0708	0.236		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.49		0.0944	0.472		2
06126	Barium	7440-39-3	149		0.127	0.472		2
06127	Beryllium	7440-41-7	0.829		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.217		0.0472	0.118		2
06131	Chromium	7440-47-3	28.5		0.142	0.472		2
06132	Cobalt	7440-48-4	8.85		0.0236	0.118		2
06133	Copper	7440-50-8	14.4		0.0779	0.472		2
06135	Lead	7439-92-1	9.36		0.0123	0.236		2
06138	Molybdenum	7439-98-7	0.402		0.0590	0.118		2
06139	Nickel	7440-02-0	19.9		0.118	0.472		2
06141	Selenium	7782-49-2	0.137	J	0.0472	0.472		2
06142	Silver	7440-22-4	0.0527	J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.334		0.0354	0.118		2
06148	Vanadium	7440-62-2	52.8		0.0260	0.118		2
06149	Zinc	7440-66-6	61.8		0.661	3.54		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.102	J	0.0034	0.119		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.97	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.75		0.0100	0.0100		1

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Sample Description: **SL-075-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290761
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL075 SDG#: DE152-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	17.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011	14:22	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011	11:07	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011	09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011	09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011	03:16	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011	17:48	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011	00:02	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011	14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011	01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011	11:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011	11:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011	11:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011	11:16	Choon Y Tian	2

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Sample Description: **SL-075-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290761
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL075 SDG#: DE152-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111381026001A	05/22/2011 23:32	David K Beck	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 11:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 11:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 12:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	06/01/2011 17:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243202A	05/24/2011 01:38	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11143621201A	05/25/2011 08:15	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290762
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE152-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290762
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE152-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	20	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.0		5
10138	Benzo(a)anthracene	56-55-3	5.6	J	3.6	9.0		5
10138	Benzo(a)pyrene	50-32-8	5.9	J	3.6	9.0		5
10138	Benzo(b)fluoranthene	205-99-2	13		3.6	9.0		5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	U	3.6	9.0		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	J	3.6	9.0		5
10138	Butylbenzylphthalate	85-68-7	33	U	33	98		5
10138	Di-n-butylphthalate	84-74-2	33	U	33	98		5
10138	Chrysene	218-01-9	7.2	J	1.8	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.0		5
10138	Diethylphthalate	84-66-2	33	U	33	98		5
10138	Dimethylphthalate	131-11-3	33	U	33	98		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33	U	33	98		5
10138	Fluoranthene	206-44-0	14		3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
10138	Di-n-octylphthalate	117-84-0	33	U	33	98		5
10138	Phenanthrene	85-01-8	5.6	J	3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	4.4	U	4.4	4.4		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	83	U	83	270		1
10401	MCPP (Mecoprop)	93-65-2	170	J	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.82	U	0.82	1.9		1

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Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290762
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE152-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.076	J	0.037	0.18		1
01363	Chlordane	57-74-9	3.8	U	3.8	3.8		1
01363	p,p-DDD	72-54-8	0.13	U	0.13	0.37		1
01363	p,p-DDE	72-55-9	0.36	J	0.072	0.37		1
01363	p,p-DDT	50-29-3	1.7		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.32	U	0.32	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.089	U	0.089	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.047	U	0.047	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.28	U	0.28	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	6.7		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	2.5		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,900		5.30	21.1		1
07914	Boron	7440-42-8	20.9		0.938	5.27		1

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Sample Description: **SL-076-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290762
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE152-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	4,750		6.46	21.1		1
01654	Iron	7439-89-6	33,600		24.8	105		5
01656	Lithium	7439-93-2	21.9		0.23	2.1		1
01657	Magnesium	7439-95-4	5,760		2.68	10.5		1
06958	Manganese	7439-96-5	363		0.0822	0.527		1
10145	Phosphorus	7723-14-0	323		0.590	10.5		1
01662	Potassium	7440-09-7	4,070		19.0	52.7		1
01667	Sodium	7440-23-5	134		39.3	105		1
07968	Strontium	7440-24-6	32.7		0.0654	0.527		1
06969	Tin	7440-31-5	2.75	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,310		0.401	1.05		1
10146	Zirconium	7440-67-7	2.18	J	0.886	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.548		0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.67		0.0843	0.422		2
06126	Barium	7440-39-3	143		0.285	1.05		5
06127	Beryllium	7440-41-7	1.05		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.706		0.0422	0.105		2
06131	Chromium	7440-47-3	36.3		0.127	0.422		2
06132	Cobalt	7440-48-4	13.8		0.0211	0.105		2
06133	Copper	7440-50-8	22.9		0.0696	0.422		2
06135	Lead	7439-92-1	17.0		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.796		0.0527	0.105		2
06139	Nickel	7440-02-0	25.6		0.105	0.422		2
06141	Selenium	7782-49-2	0.206	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0797	J	0.0127	0.105		2
06145	Thallium	7440-28-0	0.396		0.0316	0.105		2
06148	Vanadium	7440-62-2	71.1		0.0232	0.105		2
06149	Zinc	7440-66-6	129		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	3.34		0.0156	0.545		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.22	1.1		1

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Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290762
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

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14420 Albemarle Point Place
Suite 210
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SL076 SDG#: DE152-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.23	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	8.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 14:48	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 11:39	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 03:44	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 18:28	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 00:20	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 22:14	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290762
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL076 SDG#: DE152-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06126	Barium	SW-846 6020	2	111381026001D	05/22/2011 23:34	David K Beck	5
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:37	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 13:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 18:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 01:57	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-079-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE152-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	29	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-079-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE152-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	28	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	6.6	J	3.7	9.1		5
10138	Benzo(a)pyrene	50-32-8	7.8	J	3.7	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	17		3.7	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	3.7	U	3.7	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	5.0	J	3.7	9.1		5
10138	Chrysene	218-01-9	9.2		1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.1		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	38	J	33	99		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.1		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.1		5
10138	Phenanthrene	85-01-8	8.3	J	3.7	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1

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Sample Description: SL-079-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE152-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	4.0	U	4.0	4.0		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	310	U	310	310		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.12	U	0.12	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.043	U	0.043	0.18		1
01363	Beta BHC	319-85-7	0.15	J	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	2.0	U	2.0	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.55		0.073	0.38		1
01363	p,p-DDT	50-29-3	1.8		0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.44		0.073	0.38		1

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Sample Description: SL-079-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE152-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.38		1
01363	Endrin Ketone	53494-70-5	0.21	U	0.21	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.39	U	0.39	0.39		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	4.8		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.7	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,500		5.39	21.4		1
07914	Boron	7440-42-8	20.0		0.954	5.36		1
01650	Calcium	7440-70-2	5,120		6.57	21.4		1
01654	Iron	7439-89-6	28,700		5.05	21.4		1
01656	Lithium	7439-93-2	20.9		0.24	2.1		1
01657	Magnesium	7439-95-4	5,610		2.72	10.7		1
06958	Manganese	7439-96-5	412		0.0836	0.536		1
10145	Phosphorus	7723-14-0	420		0.600	10.7		1
01662	Potassium	7440-09-7	4,470		19.3	53.6		1
01667	Sodium	7440-23-5	109		40.0	107		1
07968	Strontium	7440-24-6	34.4		0.0664	0.536		1
06969	Tin	7440-31-5	2.77	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,300		0.407	1.07		1
10146	Zirconium	7440-67-7	2.75	J	0.900	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-079-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE152-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.483		0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.08		0.0874	0.437		2
06126	Barium	7440-39-3	172		0.118	0.437		2
06127	Beryllium	7440-41-7	0.928		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.748		0.0437	0.109		2
06131	Chromium	7440-47-3	32.7		0.131	0.437		2
06132	Cobalt	7440-48-4	11.9		0.0219	0.109		2
06133	Copper	7440-50-8	22.4		0.0721	0.437		2
06135	Lead	7439-92-1	16.0		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.747		0.0546	0.109		2
06139	Nickel	7440-02-0	24.3		0.109	0.437		2
06141	Selenium	7782-49-2	0.192	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0972	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.409		0.0328	0.109		2
06148	Vanadium	7440-62-2	62.2		0.0240	0.109		2
06149	Zinc	7440-66-6	140		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	35.4		0.314	10.9		100
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.31		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-079-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE152-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 15:15	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 12:10	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 09:51	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 05:06	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 20:35	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 00:39	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-079-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE152-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:42	Damary Valentin	100
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 13:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 19:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243202A	05/24/2011 02:03	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	5.2	J	3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	16		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	3.7	U	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.2		5
10138	Chrysene	218-01-9	6.9	J	1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2		5
10138	Fluoranthene	206-44-0	8.9	J	3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	4.3	J	3.7	9.2		5
10138	Pyrene	129-00-0	7.5	J	3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	90	U	90	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	3.9	U	3.9	3.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	200	J	84	280		1
10401	MCPP (Mecoprop)	93-65-2	830	U	830	2,800		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.10	U	0.10	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	3.4	J	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.45		0.073	0.38		1
01363	p,p-DDT	50-29-3	1.3		0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Dieldrin	60-57-1	0.38	U	0.38	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	5.5		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	2.2		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		5.53	22.0		1
07914	Boron	7440-42-8	19.3		0.979	5.50		1
01650	Calcium	7440-70-2	4,890		6.74	22.0		1
01654	Iron	7439-89-6	26,700		5.18	22.0		1
01656	Lithium	7439-93-2	19.4		0.24	2.2		1
01657	Magnesium	7439-95-4	5,280		2.79	11.0		1
06958	Manganese	7439-96-5	478		0.0858	0.550		1
10145	Phosphorus	7723-14-0	396		0.616	11.0		1
01662	Potassium	7440-09-7	4,590		19.8	55.0		1
01667	Sodium	7440-23-5	99.5	J	41.0	110		1
07968	Strontium	7440-24-6	32.2		0.0682	0.550		1
06969	Tin	7440-31-5	2.88	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,150		0.418	1.10		1
10146	Zirconium	7440-67-7	0.924	U	0.924	5.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-080-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.456		0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.37		0.0880	0.440		2
06126	Barium	7440-39-3	169		0.119	0.440		2
06127	Beryllium	7440-41-7	0.948		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.640		0.0440	0.110		2
06131	Chromium	7440-47-3	31.6		0.132	0.440		2
06132	Cobalt	7440-48-4	11.4		0.0220	0.110		2
06133	Copper	7440-50-8	19.6		0.0726	0.440		2
06135	Lead	7439-92-1	13.6		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.633		0.0550	0.110		2
06139	Nickel	7440-02-0	23.6		0.110	0.440		2
06141	Selenium	7782-49-2	0.200	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0782	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.379		0.0330	0.110		2
06148	Vanadium	7440-62-2	58.7		0.0242	0.110		2
06149	Zinc	7440-66-6	121		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	4.95		0.0312	1.09		10
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.18		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-080-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 15:41	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 12:43	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 10:33	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 05:34	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 21:32	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 00:57	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2

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Sample Description: **SL-080-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:44	Damary Valentin	10
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 13:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 19:23	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 02:22	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE152-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE152-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.62	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.85	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.3		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.41	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	3.6		0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.3		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	19	J	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1

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Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE152-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	7.3		0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	470		82	270		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.19	U	0.19	0.19		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.6	J	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.41	U	0.41	0.41		1
01363	p,p-DDE	72-55-9	0.39		0.071	0.37		1
01363	p,p-DDT	50-29-3	1.5		0.071	0.37		1

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Sample Description: **SL-081-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE152-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.47		0.071	0.37		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	6.4		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	2.3		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300		5.22	20.7		1
07914	Boron	7440-42-8	18.2		0.923	5.19		1
01650	Calcium	7440-70-2	4,570		6.36	20.7		1
01654	Iron	7439-89-6	27,400		4.89	20.7		1
01656	Lithium	7439-93-2	19.6		0.23	2.1		1
01657	Magnesium	7439-95-4	5,580		2.63	10.4		1
06958	Manganese	7439-96-5	449		0.0809	0.519		1
10145	Phosphorus	7723-14-0	415		0.581	10.4		1
01662	Potassium	7440-09-7	3,980		18.7	51.9		1
01667	Sodium	7440-23-5	136		38.7	104		1
07968	Strontium	7440-24-6	32.0		0.0643	0.519		1
06969	Tin	7440-31-5	2.65	J	1.04	10.4		1

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Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE152-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,310		0.394	1.04		1
10146	Zirconium	7440-67-7	1.76	J	0.871	5.19		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.412		0.0635	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.49		0.0846	0.423		2
06126	Barium	7440-39-3	160		0.114	0.423		2
06127	Beryllium	7440-41-7	0.802		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.514		0.0423	0.106		2
06131	Chromium	7440-47-3	28.1		0.127	0.423		2
06132	Cobalt	7440-48-4	9.85		0.0212	0.106		2
06133	Copper	7440-50-8	19.4		0.0698	0.423		2
06135	Lead	7439-92-1	14.3		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.651		0.0529	0.106		2
06139	Nickel	7440-02-0	20.0		0.106	0.423		2
06141	Selenium	7782-49-2	0.157	J	0.0423	0.423		2
06142	Silver	7440-22-4	0.0670	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.360		0.0317	0.106		2
06148	Vanadium	7440-62-2	55.4		0.0233	0.106		2
06149	Zinc	7440-66-6	113		0.592	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.31		0.0147	0.514		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.3		0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.05		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE152-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 16:07	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 13:15	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 11:16	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 06:02	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 22:12	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 01:16	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2

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Sample Description: **SL-081-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL081 SDG#: DE152-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:45	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202B	05/25/2011 13:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201B	05/23/2011 19:45	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243202A	05/24/2011 02:40	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202B	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201B	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-082-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290766
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE152-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-082-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290766
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE152-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	5.1	J	3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	6.7	J	3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	20		3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	U	3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	9.1		5
10138	Chrysene	218-01-9	7.0	J	1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.1		5
10138	Fluoranthene	206-44-0	12		3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Phenanthrene	85-01-8	5.1	J	3.6	9.1		5
10138	Pyrene	129-00-0	10		3.6	9.1		5
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1

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Sample Description: SL-082-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290766
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE152-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	1.4	U	1.4	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	1,100		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.27	U	0.27	0.27		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.18		1
01363	Chlordane	57-74-9	28	U	28	38		10
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	1.9		0.073	0.38		1

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Sample Description: SL-082-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290766
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE152-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	p,p-DDT	50-29-3	2.6	J	0.73	3.8		10
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	1.6	U	1.6	1.6		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.11	U	0.11	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.49	U	0.49	0.49		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.21	U	0.21	0.21		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.092	U	0.092	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	12		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	10		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	24,100		5.50	21.9		1
07914	Boron	7440-42-8	20.3		0.974	5.47		1
01650	Calcium	7440-70-2	6,030		6.71	21.9		1
01654	Iron	7439-89-6	30,900		25.8	109		5
01656	Lithium	7439-93-2	21.0		0.24	2.2		1
01657	Magnesium	7439-95-4	5,690		2.78	10.9		1
06958	Manganese	7439-96-5	469		0.0853	0.547		1
10145	Phosphorus	7723-14-0	336		0.613	10.9		1
01662	Potassium	7440-09-7	4,520		19.7	54.7		1
01667	Sodium	7440-23-5	104	J	40.8	109		1
07968	Strontium	7440-24-6	33.1		0.0678	0.547		1

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Sample Description: **SL-082-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290766
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE152-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	3.00	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,220		0.416	1.09		1
10146	Zirconium	7440-67-7	2.60	J	0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.726		0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.98		0.0850	0.425		2
06126	Barium	7440-39-3	178		0.115	0.425		2
06127	Beryllium	7440-41-7	1.11		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.766		0.0425	0.106		2
06131	Chromium	7440-47-3	37.2		0.127	0.425		2
06132	Cobalt	7440-48-4	17.0		0.0212	0.106		2
06133	Copper	7440-50-8	24.0		0.0701	0.425		2
06135	Lead	7439-92-1	22.9		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.776		0.0531	0.106		2
06139	Nickel	7440-02-0	27.3		0.106	0.425		2
06141	Selenium	7782-49-2	0.223	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0727	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.398		0.0319	0.106		2
06148	Vanadium	7440-62-2	70.9		0.0234	0.106		2
06149	Zinc	7440-66-6	146		1.49	7.97		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.69		0.0156	0.543		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.60		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-082-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290766
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE152-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 16:34	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 13:47	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 11:58	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 06:29	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 22:52	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 23:05	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 01:34	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 22:18	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 11:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 11:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2

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Sample Description: **SL-082-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290766
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL082 SDG#: DE152-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 11:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/22/2011 23:36	David K Beck	5
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:47	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202B	05/25/2011 14:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201B	05/23/2011 21:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 02:59	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202B	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201B	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-083-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290767
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL083 SDG#: DE152-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290767
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Collected: 05/17/2011 14:25

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SL083 SDG#: DE152-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	6.1	J	3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	9.6		3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	34		3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	U	3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	9.1		5
10138	Chrysene	218-01-9	10		1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.1		5
10138	Fluoranthene	206-44-0	25		3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Phenanthrene	85-01-8	15		3.6	9.1		5
10138	Pyrene	129-00-0	19		3.6	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1

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Sample Description: SL-083-SA5DN-SS-0.0-0.5 Soil
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SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290767
LLI Group # 1247434
Account # 13013

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SL083 SDG#: DE152-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	9.1		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	1,200		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	2.8	U	2.8	3.8		1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.38		1
01363	p,p-DDE	72-55-9	0.33	U	0.33	0.38		1
01363	p,p-DDT	50-29-3	0.90		0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1

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SL083 SDG#: DE152-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.066	J	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	6.5		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.1	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,000		5.50	21.9		1
07914	Boron	7440-42-8	21.3		0.974	5.47		1
01650	Calcium	7440-70-2	5,060		6.71	21.9		1
01654	Iron	7439-89-6	31,500		25.8	109		5
01656	Lithium	7439-93-2	22.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,910		2.78	10.9		1
06958	Manganese	7439-96-5	588		0.0853	0.547		1
10145	Phosphorus	7723-14-0	322		0.613	10.9		1
01662	Potassium	7440-09-7	4,260		19.7	54.7		1
01667	Sodium	7440-23-5	103	J	40.8	109		1
07968	Strontium	7440-24-6	32.5		0.0678	0.547		1
06969	Tin	7440-31-5	2.83	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,230		0.416	1.09		1
10146	Zirconium	7440-67-7	2.63	J	0.919	5.47		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-083-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290767
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE152-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.423		0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.90		0.0858	0.429		2
06126	Barium	7440-39-3	129		0.116	0.429		2
06127	Beryllium	7440-41-7	0.745		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.498		0.0429	0.107		2
06131	Chromium	7440-47-3	26.6		0.129	0.429		2
06132	Cobalt	7440-48-4	9.82		0.0215	0.107		2
06133	Copper	7440-50-8	18.0		0.0708	0.429		2
06135	Lead	7439-92-1	13.0		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.567		0.0536	0.107		2
06139	Nickel	7440-02-0	19.3		0.107	0.429		2
06141	Selenium	7782-49-2	0.134	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0720	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.325		0.0322	0.107		2
06148	Vanadium	7440-62-2	51.2		0.0236	0.107		2
06149	Zinc	7440-66-6	102		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	2.34		0.0157	0.546		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.03		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-083-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290767
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE152-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 17:00	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 14:20	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 12:41	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 06:57	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 23:46	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 01:53	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 22:21	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/22/2011 23:38	David K Beck	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 11:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 11:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 11:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-083-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290767
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE152-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:50	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202B	05/25/2011 14:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201B	05/23/2011 21:35	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 03:12	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202B	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201B	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	2.2		0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.49	J	0.37	1.9		1
10138	Anthracene	120-12-7	12		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	120		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	93		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	200		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	16		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	69		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	110		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	6.8		0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.7	20		1
10138	Fluoranthene	206-44-0	250		0.75	1.9		1
10138	Fluorene	86-73-7	1.1	J	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	19		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	48		0.75	1.9		1
10138	Pyrene	129-00-0	210		0.75	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	140		56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	29	U	29	29		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.1	J	0.90	1.9		1
10401	MCPA	94-74-6	690		85	280		1
10401	MCPP (Mecoprop)	93-65-2	88	J	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.20	U	0.20	0.20		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	3.3	J	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.38		1
01363	p,p-DDE	72-55-9	0.36	J	0.074	0.38		1
01363	p,p-DDT	50-29-3	1.5		0.074	0.38		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.24	U	0.24	0.38		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.087	U	0.087	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	7.0		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	2.3		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	24,300		5.56	22.1		1
07914	Boron	7440-42-8	19.3		0.984	5.53		1
01650	Calcium	7440-70-2	4,830		6.78	22.1		1
01654	Iron	7439-89-6	28,600		5.21	22.1		1
01656	Lithium	7439-93-2	21.2		0.24	2.2		1
01657	Magnesium	7439-95-4	5,940		2.81	11.1		1
06958	Manganese	7439-96-5	376		0.0862	0.553		1
10145	Phosphorus	7723-14-0	389		0.619	11.1		1
01662	Potassium	7440-09-7	4,290		19.9	55.3		1
01667	Sodium	7440-23-5	138		41.2	111		1
07968	Strontium	7440-24-6	32.1		0.0685	0.553		1
06969	Tin	7440-31-5	2.78	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,320		0.420	1.11		1
10146	Zirconium	7440-67-7	2.19	J	0.928	5.53		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-084-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.445		0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.85		0.0867	0.434		2
06126	Barium	7440-39-3	140		0.117	0.434		2
06127	Beryllium	7440-41-7	0.727		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.559		0.0434	0.108		2
06131	Chromium	7440-47-3	25.4		0.130	0.434		2
06132	Cobalt	7440-48-4	8.76		0.0217	0.108		2
06133	Copper	7440-50-8	16.9		0.0715	0.434		2
06135	Lead	7439-92-1	13.9		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.514		0.0542	0.108		2
06139	Nickel	7440-02-0	17.4		0.108	0.434		2
06141	Selenium	7782-49-2	0.176	J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0570	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.311		0.0325	0.108		2
06148	Vanadium	7440-62-2	51.1		0.0238	0.108		2
06149	Zinc	7440-66-6	128		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.53		0.0153	0.535		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.98		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-084-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 17:27	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 14:52	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 13:23	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 07:24	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/28/2011 02:08	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 03:25	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/22/2011 23:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 11:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/22/2011 23:39	David K Beck	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/22/2011 23:39	David K Beck	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 11:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-084-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:52	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202B	05/25/2011 15:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201B	05/23/2011 21:57	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 03:24	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202B	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201B	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	9.7		0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.73	J	0.38	1.9		1
10138	Anthracene	120-12-7	31		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	290		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	240		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	450		7.5	19		10
10138	Benzo(g,h,i)perylene	191-24-2	37		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	160		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	260		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	19		0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.8	20		1
10138	Fluoranthene	206-44-0	450		7.5	19		10
10138	Fluorene	86-73-7	6.8		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	49		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.96	J	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.4	J	0.75	1.9		1
10138	Naphthalene	91-20-3	4.0		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	160		0.75	1.9		1
10138	Pyrene	129-00-0	390		7.5	19		10
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1

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Sample Description: **SL-206-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	7.2	U	7.2	7.2		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.0	U	2.0	2.0		1
10401	MCPA	94-74-6	980		86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.22	U	0.22	0.22		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	2.2	U	2.2	3.9		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.58		0.075	0.39		1

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Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	p,p-DDT	50-29-3	1.1		0.075	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.19	U	0.19	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.083	U	0.083	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.47		0.075	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	6.7		1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	1.4	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,700		5.50	21.9		1
07914	Boron	7440-42-8	22.1		0.972	5.46		1
01650	Calcium	7440-70-2	5,150		6.70	21.9		1
01654	Iron	7439-89-6	32,100		25.7	109		5
01656	Lithium	7439-93-2	22.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,830		2.78	10.9		1
06958	Manganese	7439-96-5	411		0.0852	0.546		1
10145	Phosphorus	7723-14-0	329		0.612	10.9		1
01662	Potassium	7440-09-7	4,440		19.7	54.6		1
01667	Sodium	7440-23-5	94.2	J	40.8	109		1
07968	Strontium	7440-24-6	32.2		0.0677	0.546		1

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Sample Description: **SL-206-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.69	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,170		0.415	1.09		1
10146	Zirconium	7440-67-7	2.56	J	0.918	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.463		0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.27		0.0874	0.437		2
06126	Barium	7440-39-3	159		0.118	0.437		2
06127	Beryllium	7440-41-7	1.00		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.646		0.0437	0.109		2
06131	Chromium	7440-47-3	28.2		0.131	0.437		2
06132	Cobalt	7440-48-4	12.5		0.0219	0.109		2
06133	Copper	7440-50-8	20.5		0.0721	0.437		2
06135	Lead	7439-92-1	12.5		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.624		0.0546	0.109		2
06139	Nickel	7440-02-0	24.0		0.109	0.437		2
06141	Selenium	7782-49-2	0.185	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0631	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.370		0.0328	0.109		2
06148	Vanadium	7440-62-2	66.3		0.0240	0.109		2
06149	Zinc	7440-66-6	106		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.79		0.0157	0.546		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.03		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 17:53	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 15:23	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 16:32	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 14:05	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 07:52	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/28/2011 02:51	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	06/06/2011 18:49	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 20:47	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 09:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-206-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 09:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 09:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 07:54	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202B	05/25/2011 15:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201B	05/23/2011 22:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 03:36	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202B	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201B	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: **EB01-SA5DN-SS-051711 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290770
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-01 SDG#: DE152-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	60		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB01-SA5DN-SS-051711 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290770
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-01 SDG#: DE152-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.051	U	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.17	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1
10137	Diethylphthalate	84-66-2	0.051	U	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.30	J	0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.032	J	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.032	J	0.010	0.051		1
10137	Naphthalene	91-20-3	0.20		0.031	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	0.26	J	0.051	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.17	U	0.17	0.54		1
10407	Dalapon	75-99-0	0.27	U	0.27	1.3		1
10407	2,4-DB	94-82-6	0.32	U	0.32	1.1		1
10407	Dicamba	1918-00-9	0.086	U	0.086	0.32		1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.54		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.54		1
10407	MCPA	94-74-6	320	U	320	1,100		1
10407	MCPP	93-65-2	54	U	54	210		1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.054		1
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.054		1

The LCS/LCSD recovery for dicamba is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.010		1

*=This limit was used in the evaluation of the final result
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Sample Description: **EB01-SA5DN-SS-051711 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290770
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-01 SDG#: DE152-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
00177	Alpha BHC	319-84-6	0.0030 U	0.0030	0.010		1
00177	Beta BHC	319-85-7	0.0029 U	0.0029	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0020 U	0.0020	0.010		1
00177	Chlordane	57-74-9	0.12 U	0.12	0.51		1
00177	p,p-DDD	72-54-8	0.0051 U	0.0051	0.020		1
00177	p,p-DDE	72-55-9	0.0051 U	0.0051	0.020		1
00177	p,p-DDT	50-29-3	0.0051 U	0.0051	0.020		1
00177	Delta BHC	319-86-8	0.0029 U	0.0029	0.010		1
00177	Dieldrin	60-57-1	0.0054 U	0.0054	0.020		1
00177	Endosulfan I	959-98-8	0.0044 U	0.0044	0.010		1
00177	Endosulfan II	33213-65-9	0.015 U	0.015	0.020		1
00177	Endosulfan Sulfate	1031-07-8	0.0059 U	0.0059	0.020		1
00177	Endrin	72-20-8	0.0082 U	0.0082	0.020		1
00177	Endrin Aldehyde	7421-93-4	0.020 U	0.020	0.10		1
00177	Endrin Ketone	53494-70-5	0.0051 U	0.0051	0.020		1
00177	Heptachlor	76-44-8	0.0026 U	0.0026	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0023 U	0.0023	0.010		1
00177	Methoxychlor	72-43-5	0.030 U	0.030	0.10		1
00177	Mirex	2385-85-5	0.086 U	0.086	0.25		1
00177	Toxaphene	8001-35-2	1.0 U	1.0	3.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10 U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10 U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10 U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10 U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10 U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21 U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10 U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10 U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10 U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.16 U	0.16	0.52		1
10227	PCB-1262	37324-23-5	0.21 U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17 U	0.17	0.52		1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0184 J	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB01-SA5DN-SS-051711 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290770
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-01 SDG#: DE152-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	7.6	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB01-SA5DN-SS-051711 Water
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290770
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-01 SDG#: DE152-16EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11138WAK026	05/21/2011 05:39	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11138WAL026	05/19/2011 23:06	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11138WAK026	05/19/2011 10:00	Cynthia J Salvatori	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11138WAL026	05/19/2011 10:00	Cynthia J Salvatori	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	111430020A	05/24/2011 22:55	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	111440010A	05/27/2011 18:48	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111380016A	05/20/2011 22:00	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	111380016A	05/19/2011 02:00	Sherry L Morrow	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	111440010A	05/24/2011 14:00	Kelli M Barto	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	111430020A	05/23/2011 20:00	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
08014	Boron	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
01750	Calcium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
01754	Iron	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
01756	Lithium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
07058	Manganese	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
01762	Potassium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
01767	Sodium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
08068	Strontium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
07069	Tin	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
07070	Titanium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
06024	Antimony	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111386050002D	05/20/2011 11:43	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111386050002C	05/20/2011 11:43	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111386050002B	05/20/2011 11:43	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111385713002	05/19/2011 09:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111381848002	05/19/2011 09:10	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111386050002	05/19/2011 09:08	Denise K Conners	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB01-SA5DN-SS-051711 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290770
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-01 SDG#: DE152-16EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	111385713002	05/19/2011 04:30	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11139196902B	05/20/2011 08:03	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11154621701A	06/03/2011 14:25	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11138196401B	05/18/2011 10:55	Parker D Lindstrom	1
00200	18b pH by 9040B	SW-846 9040B	1	11138020001A	05/18/2011 22:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11138WAK026	Sample number(s): 6290770									
Aniline	1	U	1.	5	ug/l	86	83	49-101	3	30
Benzidine	20	U	20.	60	ug/l	77	81	34-117	5	30
Benzoic acid	6	U	6.	15	ug/l	32	23	10-69	31*	30
Benzyl alcohol	5	U	5.	15	ug/l	93	85	66-97	9	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	102	102	82-117	0	30
Carbazole	1	U	1.	5	ug/l	102	103	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	103	101	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	89	95	42-124	6	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	96	99	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	95	95	77-108	0	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	87	89	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	95	95	54-132	0	30
2-Chlorophenol	1	U	1.	5	ug/l	96	93	77-108	3	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	104	105	82-111	1	30
Dibenzofuran	1	U	1.	5	ug/l	100	99	83-108	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	88	89	55-118	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	87	87	50-119	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	87	87	53-119	1	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	79	84	49-111	5	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	103	104	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	97	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	102	103	70-130	1	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	109	111	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	89	94	52-131	5	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	104	106	81-115	2	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	99	101	85-115	2	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	93	93	78-116	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	110	109	81-118	1	30
Hexachlorobutadiene	1	U	1.	5	ug/l	95	96	57-124	1	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	67	70	36-118	5	30
Hexachloroethane	1	U	1.	5	ug/l	78	79	52-113	1	30
Isophorone	1	U	1.	5	ug/l	97	101	74-117	4	30
2-Methylphenol	1	U	1.	5	ug/l	93	88	64-101	6	30
4-Methylphenol	2	U	2.	5	ug/l	80	76	61-103	5	30
2-Nitroaniline	1	U	1.	5	ug/l	98	100	83-116	3	30
3-Nitroaniline	1	U	1.	5	ug/l	99	102	74-113	3	30
4-Nitroaniline	1	U	1.	5	ug/l	89	90	59-100	1	30
Nitrobenzene	1	U	1.	5	ug/l	97	99	75-109	3	30
2-Nitrophenol	1	U	1.	5	ug/l	102	104	86-120	2	30
4-Nitrophenol	10	U	10.	30	ug/l	33	26	16-78	26	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	93	91	69-110	2	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	92	93	67-136	2	30
Pentachlorophenol	3	U	3.	15	ug/l	88	88	53-110	1	30
Phenol	1	U	1.	5	ug/l	49	44	21-67	10	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	101	71-112	5	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	100	99	79-107	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	98	99	81-113	1	30
Batch number: 11138WAL026	Sample number(s): 6290770									
Acenaphthene	0.010	U	0.010	0.050	ug/l	98	104	74-109	5	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	95	100	70-110	5	30
Anthracene	0.010	U	0.010	0.050	ug/l	102	106	66-111	5	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	105	110	72-114	5	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	108	114	60-127	5	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	124*	127*	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	105	112	57-131	6	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	108	114	59-130	5	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	96	100	40-138	4	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	96	101	74-131	5	30
Chrysene	0.010	U	0.010	0.050	ug/l	104	108	76-116	4	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	108	115	55-134	6	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	101	105	57-134	5	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	96	101	40-119	6	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	104	106	57-154	2	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	107	111	75-116	3	30
Fluorene	0.010	U	0.010	0.050	ug/l	102	107	75-114	5	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	107	114	69-124	6	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	102	105	71-117	3	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	91	94	75-115	3	30
Naphthalene	0.030	U	0.030	0.050	ug/l	96	100	72-109	4	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	50	52	36-89	5	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	107	106	57-145	1	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	100	103	76-111	3	30
Pyrene	0.010	U	0.010	0.050	ug/l	99	103	69-118	4	30
Batch number: 11139SLL026	Sample number(s): 6290752-6290758,6290760-6290769									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	94		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	101		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	113		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	106		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	110		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	97		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	99		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	113		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	101		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	111		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	97		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	91		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	113		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	103		56-121		
Batch number: 11139SLM026	Sample number(s): 6290752-6290758,6290760-6290769									
Acenaphthene	17	U	17.	170	ug/kg	92		76-111		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthylene	17 U		17.	170	ug/kg	98		75-122		
Aniline	170 U		170.	500	ug/kg	77		34-94		
Anthracene	17 U		17.	170	ug/kg	97		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	56		15-121		
Benzo(a)anthracene	17 U		17.	170	ug/kg	95		73-112		
Benzo(a)pyrene	17 U		17.	170	ug/kg	109		69-122		
Benzo(b)fluoranthene	17 U		17.	170	ug/kg	106		61-127		
Benzo(g,h,i)perylene	17 U		17.	170	ug/kg	110		65-122		
Benzo(k)fluoranthene	17 U		17.	170	ug/kg	110		67-125		
Benzoic acid	170 U		170.	500	ug/kg	103		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	97		68-111		
4-Bromophenyl-phenylether	17 U		17.	170	ug/kg	94		79-117		
Butylbenzylphthalate	17 U		17.	170	ug/kg	110		75-115		
Di-n-butylphthalate	17 U		17.	170	ug/kg	96		79-112		
Carbazole	17 U		17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33 U		33.	170	ug/kg	98		74-119		
4-Chloroaniline	67 U		67.	170	ug/kg	77		10-110		
bis(2-Chloroethoxy)methane	17 U		17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17 U		17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17 U		17.	170	ug/kg	89		68-131		
2-Chloronaphthalene	17 U		17.	170	ug/kg	88		49-128		
2-Chlorophenol	17 U		17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33 U		33.	170	ug/kg	91		79-110		
Chrysene	17 U		17.	170	ug/kg	100		76-113		
Dibenz(a,h)anthracene	17 U		17.	170	ug/kg	112		70-128		
Dibenzofuran	17 U		17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17 U		17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17 U		17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17 U		17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	71		24-101		
2,4-Dichlorophenol	17 U		17.	170	ug/kg	98		75-111		
Diethylphthalate	17 U		17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33 U		33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33 U		33.	170	ug/kg	101		70-130		
Dimethylphthalate	17 U		17.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	93		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	81		37-120		
2,4-Dinitrotoluene	33 U		33.	170	ug/kg	102		73-115		
2,6-Dinitrotoluene	17 U		17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17 U		17.	170	ug/kg	101		77-111		
bis(2-Ethylhexyl)phthalate	17 U		17.	330	ug/kg	102		75-117		
Fluoranthene	17 U		17.	170	ug/kg	97		78-116		
Fluorene	17 U		17.	170	ug/kg	96		75-116		
Hexachlorobenzene	17 U		17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67 U		67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	87		46-115		
Hexachloroethane	17 U		17.	170	ug/kg	83		68-105		
Indeno(1,2,3-cd)pyrene	17 U		17.	170	ug/kg	105		64-119		
Isophorone	17 U		17.	170	ug/kg	97		69-110		
1-Methylnaphthalene	17 U		17.	170	ug/kg	95		74-105		

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Methylnaphthalene	17	U	17.	170	ug/kg	90		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	90		66-117		
Naphthalene	17	U	17.	170	ug/kg	91		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	90		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	96		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	113		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	86		51-117		
Phenanthrene	17	U	17.	170	ug/kg	96		77-113		
Phenol	17	U	17.	170	ug/kg	87		58-112		
Pyrene	17	U	17.	170	ug/kg	105		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 11146SLE026	Sample number(s): 6290754-6290755									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	83		70-130		
Batch number: 111450004A	Sample number(s): 6290754-6290755,6290760,6290763-6290769									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	95	0*	54-134	200*	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	95	0*	54-134	200*	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	119		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
HMX	100	U	100.	300	ug/kg	101		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	132*		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	97		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	106		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	105		80-120		
PETN	800	U	800.	2,400	ug/kg	123*		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	72		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	109		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 111400002A	Sample number(s): 6290754-6290755									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	92		80-126		
Batch number: 111390017A	Sample number(s): 6290752-6290758,6290760-6290769									
2,4-D	1.2	U	1.2	3.6	ug/kg	98		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	66		11-116		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-DB	0.62	U	0.62	1.7	ug/kg	105		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	77		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	14		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	114		62-170		
MCPA	76	U	76.	250	ug/kg	80		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	73		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	87		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	76		68-114		
Batch number: 111430020A	Sample number(s): 6290770									
2,4-D	0.16	U	0.16	0.50	ug/l	104	92	73-157	12	30
Dalapon	0.25	U	0.25	1.3	ug/l	75	71	40-100	4	30
2,4-DB	0.30	U	0.30	1.0	ug/l	108	104	65-130	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	48*	52*	68-135	8	30
Dinoseb	0.10	U	0.10	0.50	ug/l	86	42	32-91	69*	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	124	124	76-170	0	30
MCPA	300 U		300.	1,000	ug/l	90	84	65-128	7	30
MCPP	50	U	50.	200	ug/l	88	88	67-137	0	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	116	104	63-147	11	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	112	112	63-134	0	30
Batch number: 111390003A	Sample number(s): 6290754									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		70-130		
Batch number: 111380016A	Sample number(s): 6290770									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	88*	94*	35-84	7	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	98	104	51-128	6	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	82	100	56-135	20	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111400005A	Sample number(s): 6290752-6290758,6290760-6290769									
Aldrin	0.066	U	0.066	0.17	ug/kg	70		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	94		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	100		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	137		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	94		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	114		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	91		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	99		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	94		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	86		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	103		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	105		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	83		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	102		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	112		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	85		65-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methoxychlor	0.34	U	0.34	1.7	ug/kg	119		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111400007A	Sample number(s): 6290752-6290758,6290760-6290769									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	100	36-106	16	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	112		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	123		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111440010A	Sample number(s): 6290770									
Aldrin	0.0020	U	0.0020	0.010	ug/l	111	111	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	110	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	113	124	73-147	9	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	110	110	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	115	115	71-139	0	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	116	116	66-130	0	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	105	105	53-126	0	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	124	113	76-148	9	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	110	110	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	92	89	68-128	3	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	105	100	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	120	110	71-142	9	30
Endrin	0.0081	U	0.0081	0.020	ug/l	110	100	52-132	10	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	120	115	68-139	4	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	115	115	69-146	0	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	110	110	57-126	0	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	112	73-156	0	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	110	100	52-133	10	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 111380034A	Sample number(s): 6290754-6290755									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	80		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	82		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	85		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	75		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	67		54-107		
Batch number: 111390030A	Sample number(s): 6290754-6290755									
Ethanol	100	U	100.	500	ug/kg	93		71-129		
Isopropanol	100	U	100.	500	ug/kg	92		75-125		
Methanol	100	U	100.	500	ug/kg	97		68-129		
Batch number: 111430018A	Sample number(s): 6290754-6290755									
Diethylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethylene glycol	5.0	U	5.0	10	mg/kg	85		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Batch number: 111430017A	Sample number(s): 6290754-6290755									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
Batch number: 111381026001A	Sample number(s): 6290752-6290768									
Antimony	0.0600	U	0.0600	0.200	mg/kg	144		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	99		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	97		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	101		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	98		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	98		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	101		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	99		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	98		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	100		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	97		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	97		81-112		
Batch number: 111381026001B	Sample number(s): 6290752-6290768									
Selenium	0.0400	U	0.0400	0.400	mg/kg	104		83-111		
Batch number: 111381026001C	Sample number(s): 6290752-6290768									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	105		78-122		
Batch number: 111381026001D	Sample number(s): 6290752-6290768									
Barium	0.108	U	0.108	0.400	mg/kg	99		81-111		
Batch number: 111381848002	Sample number(s): 6290770									
Aluminum	0.0834	U	0.0834	0.200	mg/l	99	96	90-112	3	20
Boron	0.0181	J	0.0138	0.0500	mg/l	98	96	89-110	2	20
Calcium	0.0702	U	0.0702	0.200	mg/l	110	109	90-112	1	20
Iron	0.0522	U	0.0522	0.200	mg/l	111	108	90-112	3	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	100	99	80-120	1	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	101	100	89-110	1	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	106	103	90-110	3	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	104	102	80-120	2	20
Potassium	0.239	U	0.239	0.500	mg/l	98	96	85-115	2	20
Sodium	0.433	U	0.433	1.00	mg/l	98	97	87-114	1	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	104	102	90-110	2	20
Tin	0.0098	U	0.0098	0.0200	mg/l	102	99	90-110	2	20
Titanium	0.0038	U	0.0038	0.0100	mg/l	104	102	90-113	3	20
Zirconium	0.0206	U	0.0206	0.0500	mg/l	103	102	80-120	1	20
Batch number: 111385708003	Sample number(s): 6290752-6290768									
Aluminum	5.03	U	5.03	20.0	mg/kg	86		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	97		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	100		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	97		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	104		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	96		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	103		89-112		
Phosphorus	1.41	J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	96		78-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Sodium	37.3 U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	99		86-110		
Tin	1.66 J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	90		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	104		80-120		
Batch number: 111385711005	Sample number(s): 6290752-6290768								
Mercury	0.0028 U	0.0028	0.0990	mg/kg	96		88-123		
Batch number: 111385713002	Sample number(s): 6290770								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	103	103	80-120	1	20
Batch number: 111386050002A	Sample number(s): 6290770								
Antimony	0.00030 U	0.00030	0.0010	mg/l	101	95	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	102	105	86-111	3	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	104	104	90-112	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	101	107	90-114	6	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	102	107	90-118	5	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	96	100	87-113	4	20
Copper	0.00038 U	0.00038	0.0020	mg/l	97	101	90-113	5	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	101	102	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	108	90-113	5	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	100	105	90-115	5	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	97	107	89-116	10	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	99	105	89-116	6	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	95	104	90-116	10	20
Batch number: 111386050002B	Sample number(s): 6290770								
Selenium	0.00025 U	0.00025	0.0020	mg/l	104	107	85-114	3	20
Batch number: 111386050002C	Sample number(s): 6290770								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	98	103	89-115	6	20
Batch number: 111386050002D	Sample number(s): 6290770								
Barium	0.00053 U	0.00053	0.0020	mg/l	100	108	88-113	8	20
Batch number: 111391026001A	Sample number(s): 6290769								
Antimony	0.0600 U	0.0600	0.200	mg/kg	96		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	98		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	98		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	101		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	101		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	99		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	95		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	99		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	96		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	95		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	98		83-110		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	90		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	96		81-112		
Batch number: 111391026001B	Sample number(s): 6290769								
Selenium	0.0400 U	0.0400	0.400	mg/kg	101		83-111		
Batch number: 111391026001C	Sample number(s): 6290769								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	101		78-122		
Batch number: 111391026001D	Sample number(s): 6290769									
Barium	0.108	U	0.108	0.400	mg/kg	92		81-111		
Batch number: 111395708002	Sample number(s): 6290769									
Aluminum	5.03	U	5.03	20.0	mg/kg	85		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	100		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	101		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	94		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	104		89-112		
Phosphorus	1.29	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	99		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	99		86-110		
Tin	1.65	J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	82		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 111395711001	Sample number(s): 6290769									
Mercury	0.0027	U	0.0027	0.0942	mg/kg	91		88-123		
Batch number: 11138196401B	Sample number(s): 6290770									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	102	96	90-110	7	20
Batch number: 11139196902B	Sample number(s): 6290770									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	96	96	90-110	0	20
Batch number: 11140243202A	Sample number(s): 6290752-6290757,6290759-6290769									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	85		80-120		
Batch number: 11143621201A	Sample number(s): 6290752-6290757,6290759-6290764									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11143621201B	Sample number(s): 6290765-6290769									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11143621202A	Sample number(s): 6290752-6290757,6290759-6290764									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11143621202B	Sample number(s): 6290765-6290769									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		
Batch number: 11145102201A	Sample number(s): 6290754-6290755									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	104		80-120		
Batch number: 11154621701A	Sample number(s): 6290770									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	98	99	85-115	0	20
Batch number: 11138020001A	Sample number(s): 6290770									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11143039402A	Sample number(s): 6290752-6290756,6290759-6290763									
18a pH by 9045C						100		95-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11143039402B	Sample number(s): 6290764-6290769								
18a pH by 9045C					100		95-105		
Batch number: 11144162401B	Sample number(s): 6290752-6290753,6290756-6290759,6290761-6290762								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11160162401A	Sample number(s): 6290754-6290755,6290760,6290763-6290769								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11139SLL026	Sample number(s): 6290752-6290758,6290760-6290769 UNSPK: 6290756								
Acenaphthene	60*	85	63-105	31*	30				
Acenaphthylene	58*	95	67-114	47*	30				
Anthracene	60	92	60-122	36*	30				
Benzo(a)anthracene	72	63	59-128	8	30				
Benzo(a)pyrene	72	61	45-138	8	30				
Benzo(b)fluoranthene	65	57	43-155	5	30				
Benzo(g,h,i)perylene	25*	23*	33-141	5	30				
Benzo(k)fluoranthene	69	100	42-144	23	30				
Butylbenzylphthalate	125	174*	57-173	29	30				
Di-n-butylphthalate	71	128	65-148	58*	30				
Chrysene	71	47*	48-134	17	30				
Dibenz(a,h)anthracene	33	48	22-133	31*	30				
Diethylphthalate	73	103	70-136	34*	30				
Dimethylphthalate	45*	1501*	74-118	180*	30				
Bis(2-Ethylhexyl)phthalate	19*	104	39-167	72*	30				
Fluoranthene	110	8*	26-166	43*	30				
Fluorene	60*	93	66-122	41*	30				
Indeno(1,2,3-cd)pyrene	36	36	21-143	0	30				
1-Methylnaphthalene	57*	91	72-123	45*	30				
2-Methylnaphthalene	49*	82	64-103	49*	30				
Naphthalene	51*	87	61-102	49*	30				
N-Nitrosodimethylamine	76	90	48-113	17	30				
Di-n-octylphthalate	60	172	40-192	79*	30				
Phenanthrene	98	43	12-165	34*	30				
Pyrene	94	16	15-153	39*	30				
Batch number: 11139SLM026	Sample number(s): 6290752-6290758,6290760-6290769 UNSPK: 6290756								
Acenaphthene	99	91	75-115	9	30				
Acenaphthylene	103	93	81-110	10	30				
Aniline	76	75	35-95	3	30				
Anthracene	94	92	75-115	3	30				
Benzidine	0*	17*	35-141	200*	30				
Benzo(a)anthracene	96	93	65-122	4	30				
Benzo(a)pyrene	104	96	57-126	9	30				
Benzo(b)fluoranthene	104	103	59-125	2	30				

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Quality Control Summary

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Reported: 06/16/11 at 12:13 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(g,h,i)perylene	82	82	59-127	1	30				
Benzo(k)fluoranthene	105	100	56-132	6	30				
Benzoic acid	43	62	10-173	35*	30				
Benzyl alcohol	105	98	67-115	8	30				
4-Bromophenyl-phenylether	96	93	67-129	3	30				
Butylbenzylphthalate	109	110	73-134	0	30				
Di-n-butylphthalate	89	90	67-123	1	30				
Carbazole	89	91	64-120	2	30				
4-Chloro-3-methylphenol	106	96	76-110	10	30				
4-Chloroaniline	63	74	23-95	16	30				
bis(2-Chloroethoxy)methane	95	91	75-104	5	30				
bis(2-Chloroethyl)ether	102	91	60-116	12	30				
bis(2-Chloroisopropyl)ether	104	94	55-142	10	30				
2-Chloronaphthalene	79	70	50-141	12	30				
2-Chlorophenol	99	93	73-121	7	30				
4-Chlorophenyl-phenylether	95	88	80-109	7	30				
Chrysene	99	94	62-128	5	30				
Dibenz(a,h)anthracene	90	87	65-125	3	30				
Dibenzofuran	101	92	71-112	10	30				
1,2-Dichlorobenzene	95	85	66-108	12	30				
1,3-Dichlorobenzene	93	79	63-109	17	30				
1,4-Dichlorobenzene	93	82	70-100	13	30				
3,3'-Dichlorobenzidine	62	79	16-119	23	30				
2,4-Dichlorophenol	102	96	78-117	6	30				
Diethylphthalate	100	94	66-118	7	30				
2,4-Dimethylphenol	103	98	78-110	5	30				
3,5-Dimethylphenol	103	98	70-130	5	30				
Dimethylphthalate	99	95	64-118	4	30				
4,6-Dinitro-2-methylphenol	63	85	24-116	29	30				
2,4-Dinitrophenol	41	68	20-143	49*	30				
2,4-Dinitrotoluene	106	97	73-113	9	30				
2,6-Dinitrotoluene	100	101	69-123	0	30				
1,2-Diphenylhydrazine	102	100	71-129	2	30				
bis(2-Ethylhexyl)phthalate	108	102	63-122	6	30				
Fluoranthene	83	84	73-112	1	30				
Fluorene	102	92	77-111	10	30				
Hexachlorobenzene	94	83	77-114	13	30				
Hexachlorobutadiene	94	83	62-120	13	30				
Hexachlorocyclopentadiene	86	56	10-153	42*	30				
Hexachloroethane	95	81	57-109	16	30				
Indeno(1,2,3-cd)pyrene	88	83	61-126	6	30				
Isophorone	98	95	73-102	4	30				
1-Methylnaphthalene	104	94	73-112	10	30				
2-Methylnaphthalene	95	87	76-114	9	30				
2-Methylphenol	102	94	75-111	9	30				
4-Methylphenol	100	92	71-111	8	30				
Naphthalene	95	88	72-116	8	30				
2-Nitroaniline	106	97	67-125	9	30				
3-Nitroaniline	96	93	59-122	4	30				
4-Nitroaniline	94	86	52-112	9	30				
Nitrobenzene	98	94	72-106	4	30				
2-Nitrophenol	98	94	74-115	4	30				
4-Nitrophenol	97	87	54-113	11	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitroso-di-n-propylamine	105	95	60-116	10	30				
N-Nitrosodimethylamine	81	72	47-116	13	30				
N-Nitrosodiphenylamine	99	97	86-145	2	30				
Di-n-octylphthalate	124	122	56-126	2	30				
Pentachlorophenol	73	73	28-127	0	30				
Phenanthrene	94	93	65-125	2	30				
Phenol	97	87	58-126	11	30				
Pyrene	99	102	74-126	3	30				
1,2,4-Trichlorobenzene	92	87	72-115	6	30				
2,4,5-Trichlorophenol	98	90	78-109	8	30				
2,4,6-Trichlorophenol	99	93	77-115	7	30				
Batch number: 11146SLE026	Sample number(s): 6290754-6290755 UNSPK: P296047								
N-Nitrosodimethylamine	24*	24*	70-130	1	30				
Batch number: 111450004A	Sample number(s): 6290754-6290755,6290760,6290763-6290769 UNSPK: 6290754								
4-Amino-2,6-Dinitrotoluene	109	109	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	113	113	80-137	0	50				
1,3-Dinitrobenzene	117	117	38-166	0	50				
2,4-Dinitrotoluene	107	107	80-131	0	50				
2,6-Dinitrotoluene	106	106	80-127	0	50				
HMX	99	99	63-128	0	50				
Nitrobenzene	128*	128*	80-125	0	50				
Nitroglycerin	106	106	80-120	0	50				
2-Nitrotoluene	105	105	80-122	1	50				
3-Nitrotoluene	107	107	72-119	0	50				
4-Nitrotoluene	104	104	80-125	0	50				
PETN	126*	125*	80-121	1	50				
RDX	96	97	75-129	1	50				
Tetryl	74	73	55-174	0	50				
1,3,5-Trinitrobenzene	107	106	82-126	0	50				
2,4,6-Trinitrotoluene	108	107	82-130	0	50				
Batch number: 111400002A	Sample number(s): 6290754-6290755 UNSPK: P291999								
25a Formaldehyde 8315A	90	89	80-120	1	50				
Batch number: 111390017A	Sample number(s): 6290752-6290758,6290760-6290769 UNSPK: 6290756								
2,4-D	108	102	17-180	5	35				
Dalapon	57	78	10-125	31	50				
2,4-DB	154	96	10-201	38	50				
Dicamba	117	117	10-190	0	50				
Dinoseb	18	22	10-46	20	35				
2,4-DP (Dichlorprop)	120	108	33-178	10	50				
MCPA	166	155	10-213	7	50				
MCPP (Mecoprop)	103	83	10-184	21	50				
2,4,5-T	98	113	10-156	15	35				
2,4,5-TP	82	120	24-141	38*	35				
Batch number: 111390003A	Sample number(s): 6290754 UNSPK: P285036								
6a Perchlorate EPA 6850	100	102	80-120	2	20				
Batch number: 111400005A	Sample number(s): 6290752-6290758,6290760-6290769 UNSPK: 6290756								
Aldrin	67	45	16-126	38	50				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Alpha BHC	92	56	10-129	43	50				
Beta BHC	144	0*	14-147	200*	50				
Gamma BHC - Lindane	121	88	10-140	32	50				
p,p-DDD	130	67	16-163	64*	50				
p,p-DDE	131	95	18-161	31	50				
p,p-DDT	210*	178*	10-176	17	50				
Delta BHC	116	53	23-140	47	50				
Dieldrin	99	40	19-154	84*	50				
Endosulfan I	48	29	16-137	50	50				
Endosulfan II	74	42	28-154	56*	50				
Endosulfan Sulfate	80	71	21-160	12	50				
Endrin	87	48	11-149	58*	50				
Endrin Aldehyde	76	79	10-148	4	35				
Endrin Ketone	59	62	22-165	5	50				
Heptachlor	106	67	13-126	46	50				
Heptachlor Epoxide	85	61	13-157	33	50				
Methoxychlor	96	56	32-147	53*	50				
Batch number: 111400007A	Sample number(s): 6290752-6290758,6290760-6290769 UNSPK: 6290756								
PCB-1016	101	118	29-146	16	50				
PCB-1260	87	109	39-149	18	50				
Batch number: 111380034A	Sample number(s): 6290754-6290755 UNSPK: P281100								
EFH (C12-C14)	70	73	49-123	3	20				
EFH (C15-C20)	86	90	49-123	3	20				
EFH (C21-C30)	101	104	49-123	2	20				
EFH (C30 - C40)	64	71	49-123	7	20				
EFH (C8-C11)	70	67	49-123	5	20				
Batch number: 111390030A	Sample number(s): 6290754-6290755 UNSPK: P291999								
Ethanol	42*	33*	48-130	24*	20				
Isopropanol	66	64	12-149	3	20				
Methanol	55	52	43-138	5	20				
Batch number: 111430018A	Sample number(s): 6290754-6290755 UNSPK: P291999								
Diethylene glycol	36*	56*	59-109	45*	20				
Ethylene glycol	44*	71	63-107	47*	20				
Propylene glycol	48*	77	63-107	45*	20				
Batch number: 111430017A	Sample number(s): 6290754-6290755 UNSPK: P291999								
m-Terphenyl	63*	62*	75-125	2	20				
o-Terphenyl	92	95	75-125	3	20				
p-Terphenyl	83	80	75-125	4	20				
Batch number: 111381026001A	Sample number(s): 6290752-6290768 UNSPK: 6290756 BKG: 6290756								
Antimony	29*	32*	75-125	2	20	0.806	0.274	98* (1)	20
Arsenic	117	162*	75-125	10	20	5.35	4.39	20	20
Beryllium	103	102	75-125	1	20	0.650	0.484	29*	20
Cadmium	111	127*	75-125	10	20	0.275	0.228	19 (1)	20
Chromium	114	142*	75-125	7	20	25.1	22.0	13	20
Cobalt	112	128*	75-125	10	20	9.00	7.07	24*	20
Copper	121	153*	75-125	10	20	15.9	12.2	26*	20
Lead	81	153*	75-125	14	20	11.4	13.8	19	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nickel	133*	160*	75-125	8	20	17.7	13.6	26*	20
Silver	120	126*	75-125	4	20	0.0313 J	0.0298 J	5 (1)	20
Thallium	121	127*	75-125	3	20	0.266	0.260	2 (1)	20
Vanadium	98 (2)	166 (2)	75-125	10	20	51.1	40.7	23*	20
Zinc	83 (2)	372 (2)	75-125	17	20	137	103	28*	20
Batch number: 111381026001B	Sample number(s): 6290752-6290768 UNSPK: 6290756 BKG: 6290756								
Selenium	110	119	75-125	7	20	0.187 J	0.141 J	28* (1)	20
Batch number: 111381026001C	Sample number(s): 6290752-6290768 UNSPK: 6290756 BKG: 6290756								
Molybdenum	118	130*	75-125	8	20	0.586	0.420	33* (1)	20
Batch number: 111381026001D	Sample number(s): 6290752-6290768 UNSPK: 6290756 BKG: 6290756								
Barium	54 (2)	364 (2)	75-125	23*	20	112	81.8	31*	20
Batch number: 111385708003	Sample number(s): 6290752-6290768 UNSPK: 6290756 BKG: 6290756								
Aluminum	3024 (2)	3328 (2)	75-125	3	20	17,500	17,200	2	20
Boron	99	99	84-115	0	20	18.0	18.2	1 (1)	20
Calcium	-338 (2)	889 (2)	75-125	19	20	25,100	24,600	2	20
Iron	2835 (2)	2878 (2)	75-125	0	20	23,500	25,400	8	20
Lithium	107	107	82-114	0	20	17.6	17.9	2	20
Magnesium	465 (2)	597 (2)	75-125	4	20	5,140	5,220	2	20
Manganese	137 (2)	172 (2)	75-125	5	20	300	340	13	20
Phosphorus	4 (2)	29 (2)	75-125	4	20	567	472	18	20
Potassium	188*	203*	75-125	3	20	3,880	4,000	3	20
Sodium	100	106	75-125	5	20	111	98.2 J	12 (1)	20
Strontium	98	107	75-115	6	20	54.8	54.6	0	20
Tin	88	87	80-110	1	20	2.42 J	2.43 J	0 (1)	20
Titanium	457 (2)	453 (2)	75-125	0	20	944	931	1	20
Zirconium	92	92	75-125	0	20	2.46 J	2.87 J	15 (1)	20
Batch number: 111385711005	Sample number(s): 6290752-6290768 UNSPK: 6290756 BKG: 6290756								
Mercury	98	90	65-135	6	20	0.0029 U	0.0028 U	0 (1)	20
Batch number: 111391026001A	Sample number(s): 6290769 UNSPK: P285036 BKG: P285036								
Antimony	46*	63*	75-125	25*	20	0.170 J	0.157 J	8 (1)	20
Arsenic	165*	213*	75-125	12	20	4.09	4.62	12	20
Beryllium	126*	142*	75-125	8	20	0.580	0.524	10	20
Cadmium	126*	130*	75-125	2	20	0.231	0.186	22* (1)	20
Chromium	127*	146*	75-125	6	20	18.8	17.0	11	20
Cobalt	117	146*	75-125	20	20	6.77	7.41	9	20
Copper	125	150*	75-125	10	20	11.5	9.84	16	20
Lead	238 (2)	330 (2)	75-125	13	20	13.0	10.4	22*	20
Nickel	130*	170*	75-125	14	20	12.9	11.4	13	20
Silver	123	131*	75-125	7	20	0.0345 J	0.0583 J	52* (1)	20
Thallium	104	129*	75-125	13	20	0.275	0.222	21* (1)	20
Vanadium	157*	209*	75-125	10	20	33.7	30.6	10	20
Zinc	150 (2)	268 (2)	75-125	15	20	58.3	51.6	12	20
Batch number: 111391026001B	Sample number(s): 6290769 UNSPK: P285036 BKG: P285036								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Selenium	109	119	75-125	9	20	0.148 J	0.109 J	30* (1)	20
Batch number: 111391026001C	Sample number(s): 6290769 UNSPK: P285036 BKG: P285036								
Molybdenum	114	125	75-125	9	20	0.523	0.547	4	20
Batch number: 111391026001D	Sample number(s): 6290769 UNSPK: P285036 BKG: P285036								
Barium	220 (2)	382 (2)	75-125	11	20	110	98.0	12	20
Batch number: 111395708002	Sample number(s): 6290769 UNSPK: P285036 BKG: P285036								
Aluminum	2046 (2)	1418 (2)	75-125	7	20	14,500	13,200	10	20
Boron	98	97	84-115	2	20	12.2	11.0	11 (1)	20
Calcium	349 (2)	46 (2)	75-125	27*	20	3,630	3,830	5	20
Iron	1062 (2)	257 (2)	75-125	4	20	20,000	18,600	7	20
Lithium	103	101	82-114	1	20	17.4	15.5	12	20
Magnesium	338 (2)	199 (2)	75-125	6	20	4,110	3,820	7	20
Manganese	169 (2)	121 (2)	75-125	8	20	234	250	7	20
Phosphorus	591*	156*	75-125	68*	20	255	256	0	20
Potassium	128*	134*	75-125	2	20	2,130	2,290	7	20
Sodium	106	100	75-125	5	20	77.7 J	80.4 J	3 (1)	20
Strontium	98	96	75-115	2	20	25.4	22.8	11	20
Tin	90	88	80-110	2	20	2.59 J	2.38 J	8 (1)	20
Titanium	243 (2)	324 (2)	75-125	7	20	907	914	1	20
Zirconium	98	97	75-125	0	20	0.977 J	1.84 J	61* (1)	20
Batch number: 111395711001	Sample number(s): 6290769 UNSPK: P285036 BKG: P285036								
Mercury	83	74	65-135	13	20	0.0029 U	0.0028 U	0 (1)	20
Batch number: 11140243202A	Sample number(s): 6290752-6290757,6290759-6290769 UNSPK: 6290756 BKG: 6290756								
3a Cr VI by EPA 7199	87		75-125			0.63 J	0.29 J	75* (1)	20
Batch number: 11143621201A	Sample number(s): 6290752-6290757,6290759-6290764 UNSPK: 6290756 BKG: 6290756								
7a Perchlorate EPA 314.0	90		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11143621201B	Sample number(s): 6290765-6290769 UNSPK: 6290765 BKG: 6290765								
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11143621202A	Sample number(s): 6290752-6290757,6290759-6290764 UNSPK: 6290756 BKG: 6290756								
11a Anions by 300.0 - Fluoride	82		80-120			1.7	1.4	18 (1)	20
11a Anions by 300.0 - Nitrate	102		80-120			7.0	6.7	4 (1)	20
Batch number: 11143621202B	Sample number(s): 6290765-6290769 UNSPK: 6290765 BKG: 6290765								
11a Anions by 300.0 - Fluoride	60*		80-120			2.6	2.3	11 (1)	20
Batch number: 11145102201A	Sample number(s): 6290754-6290755 UNSPK: P291999 BKG: P291999								
17a Cyanide by 9012B	105		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11143039402A	Sample number(s): 6290752-6290756,6290759-6290763 BKG: 6290756								
18a pH by 9045C						7.96	8.00	1	3
Batch number: 11143039402B	Sample number(s): 6290764-6290769 BKG: P290803								
18a pH by 9045C						8.48	8.52	0	3

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11144162401B	Sample number(s): 6290752-6290753,6290756-6290759,6290761-6290762							BKG:	6290756
28a Moisture Content by 160.3						10.5	10.6	1	20
Moisture Content by 160.3						10.5	10.6	1	20
Moisture Content by 160.3						10.5	10.6	1	20
Batch number: 11160162401A	Sample number(s): 6290754-6290755,6290760,6290763-6290769							BKG:	P288941
Moisture Content by 160.3						11.8	12.4	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11138WAK026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6290770	51	30	105	86	85	74
Blank	49	34	111	88	87	74
LCS	60	44	108	89	88	78
LCSD	55	40	107	92	90	80
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11138WAL026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6290770	95	100	109
Blank	91	100	108
LCS	103	99	103
LCSD	107	103	106
Limits:	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11139SLL026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6290752	93	86	100
6290753	94	89	83
6290754	89	81	75
6290755	102	88	106
6290756	100	87	93
6290757	77	52	48
6290758	111	93	105
6290760	90	81	83
6290761	85	72	78
6290762	76	63	61

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Surrogate Quality Control

6290763	97	86	84
6290764	92	85	85
6290765	94	83	98
6290766	97	86	85
6290767	95	81	86
6290768	98	88	110
6290769	102	90	111
Blank	97	95	105
LCS	109	93	99
MS	77	52	48
MSD	111	93	105
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11139SLM026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6290752	93	83	85	81	84	80
6290753	93	90	84	86	89	78
6290754	95	87	81	84	88	86
6290755	93	82	84	85	86	80
6290756	101	93	89	88	85	91
6290757	100	89	94	89	89	82
6290758	90	82	83	85	84	82
6290760	85	75	90	78	81	85
6290761	88	80	83	86	84	81
6290762	92	84	87	86	86	82
6290763	97	84	84	90	91	88
6290764	91	80	91	87	90	86
6290765	90	82	94	89	91	89
6290766	91	82	88	86	84	77
6290767	93	78	86	83	83	85
6290768	95	82	82	82	77	67
6290769	93	82	91	91	90	83
Blank	85	81	84	78	84	85
LCS	90	85	85	84	86	88
MS	100	89	94	89	89	82
MSD	90	82	83	85	84	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11146SLE026

	N-Nitrosodimethylamine-d6
6290754	96
6290755	113
Blank	91
LCS	104
MS	164*
MSD	143
Limits:	50-150

Analysis Name: 8b PCBs/PCTs by 8082

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Surrogate Quality Control

Batch number: 111380016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6290770	123	83
Blank	118	64
LCS	89	57
LCSD	113	81
Limits:	30-150	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111390017A

	2,4-Dichlorophenylacetic acid
6290752	147
6290753	165*
6290754	158*
6290755	149
6290756	122
6290757	160*
6290758	192*
6290760	151
6290761	55
6290762	62
6290763	74
6290764	52
6290765	168*
6290766	206*
6290767	141
6290768	148
6290769	186*
Blank	64
LCS	121
MS	160*
MSD	192*
Limits:	36-156

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111400002A

	Butyraldehyde
6290754	120
6290755	122
Blank	125
LCS	119
MS	112
MSD	116
Limits:	64-126

Analysis Name: 12a Pesticides by 8081A
Batch number: 111400005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6290752	85	91

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Surrogate Quality Control

6290753	74	369*
6290754	89	131*
6290755	78	189*
6290756	72	105
6290757	75	95
6290758	51	119
6290760	95	56
6290761	60	119
6290762	90	162*
6290763	94	97
6290764	81	108
6290765	100	138*
6290766	98	123*
6290767	55	70
6290768	91	151*
6290769	93	145*
Blank	87	108
LCS	72	101
MS	75	95
MSD	51	119
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111400007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6290752	126	101
6290753	123	89
6290754	98	80
6290755	120	94
6290756	116	83
6290757	120	87
6290758	144*	98
6290760	128	102
6290761	87	70
6290762	127	104
6290763	118	92
6290764	130	103
6290765	110	88
6290766	139	109
6290767	108	84
6290768	125	105
6290769	118	94
Blank	118	118
LCS	123	126*
LCSD	122	126*
MS	120	87
MSD	144*	98
Limits:	53-139	45-120

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 111430020A

	2,4-Dichlorophenylacetic acid

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Surrogate Quality Control

6290770	91
Blank	91
LCS	103
LCSD	102
Limits:	35-144

Analysis Name: 12b Pesticides by 8081A
Batch number: 111440010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6290770	112	106
Blank	112	94
LCS	108	96
LCSD	108	100
Limits:	52-141	40-144

Analysis Name: 16a Energetics by 8330A
Batch number: 111450004A

	2-Nitro-m-xylene
6290754	122
6290755	122
6290760	119
6290763	124
6290764	121
6290765	125
6290766	119
6290767	126
6290768	113
6290769	123
Blank	136
LCS	123
LCSD	32*
MS	115
MSD	116
Limits:	80-146

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111380034A

	Chlorobenzene	Orthoterphenyl
6290754	63	74
6290755	63	79
Blank	73	78
LCS	81	83
MS	66	75
MSD	67	76
Limits:	37-125	47-145

Analysis Name: 19a Alcohols by 8015B
Batch number: 111390030A

	Acetone

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Surrogate Quality Control

6290754	66
6290755	67
Blank	84
LCS	83
MS	77
MSD	77

Limits: 42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111430017A
n-Triacontane-d62

6290754	96
6290755	49*
Blank	89
LCS	87
MS	115
MSD	74

Limits: 50-150

Analysis Name: 21a Glycols by 8015B
Batch number: 111430018A
Tetramethylene glycol

6290754	72
6290755	79
Blank	90
LCS	96
MS	78
MSD	77

Limits: 29-137

*- Outside of specification
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13013 1247434 6290752-70

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&/471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-254-SA5A-SS-0.0-0.5	5.16.11	1700	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-254-SA5A-SS-0.0-0.5	5.16.11	1700	SOIL	NONE	1-SS sleeve			X	X																	
DUP-01-SA5DN-QC-051711	5.17.11	0845	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
DUP-01-SA5DN-QC-051711	5.17.11	0845	SOIL	NONE	1-SS sleeve			X	X																	
SL-066-SA5DN-SS-0.0-0.5	5.17.11	1525	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-066-SA5DN-SS-0.0-0.5	5.17.11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-067-SA5DN-SS-0.0-0.5	5.17.11	1015	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-067-SA5DN-SS-0.0-0.5	5.17.11	1015	SOIL	NONE	1-SS sleeve			X	X																	
SL-072-SA5DN-SS-0.0-0.5MS	5.17.11	0840	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X										MS/MSD sample
SL-072-SA5DN-SS-0.0-0.5MS	5.17.11	0840	SOIL	NONE	2-SS sleeves			X	X																	MS/MSD sample
SL-074-SA5DN-SS-0.0-0.5	5.17.11	1000	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-074-SA5DN-SS-0.0-0.5	5.17.11	1000	SOIL	NONE	1-SS sleeve			X	X																	
SL-075-SA5DN-SS-0.0-0.5	5.17.11	0910	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-075-SA5DN-SS-0.0-0.5	5.17.11	0910	SOIL	NONE	1-SS sleeve			X	X																	
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0935	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0935	SOIL	NONE	1-SS sleeve			X	X																	
SL-079-SA5DN-SS-0.0-0.5	5.17.11	1045	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-079-SA5DN-SS-0.0-0.5	5.17.11	1045	SOIL	NONE	1-SS sleeve			X	X																	
SL-080-SA5DN-SS-0.0-0.5	5.17.11	1110	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-080-SA5DN-SS-0.0-0.5	5.17.11	1110	SOIL	NONE	1-SS sleeve			X	X																	
SL-081-SA5DN-SS-0.0-0.5	5.17.11	1330	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-081-SA5DN-SS-0.0-0.5	5.17.11	1330	SOIL	NONE	1-SS sleeve			X	X																	
SL-082-SA5DN-SS-0.0-0.5	5.17.11	1310	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-082-SA5DN-SS-0.0-0.5	5.17.11	1310	SOIL	NONE	1-SS sleeve			X	X																	
SL-083-SA5DN-SS-0.0-0.5	5.17.11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-083-SA5DN-SS-0.0-0.5	5.17.11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-084-SA5DN-SS-0.0-0.5	5.17.11	1355	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-084-SA5DN-SS-0.0-0.5	5.17.11	1355	SOIL	NONE	1-SS sleeve			X	X																	
SL-206-SA5DN-SS-0.0-0.5	5.17.11	1450	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-206-SA5DN-SS-0.0-0.5	5.17.11	1450	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/17/2011 / 1700	5/18/11 920	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8695 1441 7799; 8695 1441 7803 8695 1441 7814; 8695 1441 7825	

13013 1247434 G290752-70

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-001-SA5DN-SB-6.0	05.17.11	1154	SOIL	NONE	4-Encores										X	X											
SL-001-SA5DN-SB-5.5-6.5	05.17.11	1204	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-001-SA5DN-SB-9.0-10.0	05.17.11	1158	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-005-SA5DN-SB-4.5	05.17.11	0958	SOIL	NONE	4-Encores										X	X											
SL-005-SA5DN-SB-4.0-5.0	05.17.11	1004	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-005-SA5DN-SB-9.0-10.0	05.17.11	1008	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-068-SA5DN-SB-4.5	05.17.11	1605	SOIL	NONE	4-Encores										X	X											
SL-068-SA5DN-SB-4.0-5.0	05.17.11	1608	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-068-SA5DN-SB-9.0-10.0	05.17.11	1611	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-073-SA5DN-SB-4.5	05.17.11	1515	SOIL	NONE	4-Encores										X	X											
SL-073-SA5DN-SB-4.0-5.0	05.17.11	1519	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-073-SA5DN-SB-9.0-10.0	05.17.11	1525	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-051711	05.17.11	1700	WATER	HCl	4-40 mL VOA VIALS										X	X											TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 05/17/2011 / 1700

Received for Laboratory by: (*Signature*) 5/18/11 920

Received by: (*Signature*) — Date/Time

Airbill No(s)
8695 1441 7799; 8695 1441 7803
8695 1441 7814; 8695 1441 7825

Laboratory:
Lancaster Laboratories, Inc.

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Tuesday, May 17, 2011 8:38 PM
To: Nicole Maljovec; SA Env Entry
Subject: FW: The COC for 5/17/2011
Attachments: COC 05 17 11.xlsx

Is attached. Please note that this copy of the COC indicates samples to be run for the Perchlorate confirmation which are not indicated on the hard copy sent with the samples.

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

13013 1247434 6290752-70

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-254-SA5A-SS-0.0-0.5	5.16.11	1700	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-254-SA5A-SS-0.0-0.5	5.16.11	1700	SOIL	NONE	1-SS sleeve			X	X																	
DUP-01-SA5DN-QC-051711	5.17.11	0845	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
DUP-01-SA5DN-QC-051711	5.17.11	0845	SOIL	NONE	1-SS sleeve			X	X																	
SL-066-SA5DN-SS-0.0-0.5	5.17.11	1525	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-066-SA5DN-SS-0.0-0.5	5.17.11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-067-SA5DN-SS-0.0-0.5	5.17.11	1015	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-067-SA5DN-SS-0.0-0.5	5.17.11	1015	SOIL	NONE	1-SS sleeve			X	X																	
SL-072-SA5DN-SS-0.0-0.5MS	5.17.11	0840	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X										MS/MSD sample
SL-072-SA5DN-SS-0.0-0.5MS	5.17.11	0840	SOIL	NONE	2-SS sleeves			X	X																	MS/MSD sample
SL-074-SA5DN-SS-0.0-0.5	5.17.11	1000	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-074-SA5DN-SS-0.0-0.5	5.17.11	1000	SOIL	NONE	1-SS sleeve			X	X																	
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0910	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0910	SOIL	NONE	1-SS sleeve			X	X																	
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0935	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0935	SOIL	NONE	1-SS sleeve			X	X																	
SL-079-SA5DN-SS-0.0-0.5	5.17.11	1045	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-079-SA5DN-SS-0.0-0.5	5.17.11	1045	SOIL	NONE	1-SS sleeve			X	X																	
SL-080-SA5DN-SS-0.0-0.5	5.17.11	1110	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-080-SA5DN-SS-0.0-0.5	5.17.11	1110	SOIL	NONE	1-SS sleeve			X	X																	
SL-081-SA5DN-SS-0.0-0.5	5.17.11	1330	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X					X					
SL-081-SA5DN-SS-0.0-0.5	5.17.11	1330	SOIL	NONE	1-SS sleeve			X	X																	
SL-082-SA5DN-SS-0.0-0.5	5.17.11	1310	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-082-SA5DN-SS-0.0-0.5	5.17.11	1310	SOIL	NONE	1-SS sleeve			X	X																	
SL-083-SA5DN-SS-0.0-0.5	5.17.11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-083-SA5DN-SS-0.0-0.5	5.17.11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-084-SA5DN-SS-0.0-0.5	5.17.11	1355	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-084-SA5DN-SS-0.0-0.5	5.17.11	1355	SOIL	NONE	1-SS sleeve			X	X																	
SL-206-SA5DN-SS-0.0-0.5	5.17.11	1450	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-206-SA5DN-SS-0.0-0.5	5.17.11	1450	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/17/2011 / 1700	5/18/11 920	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1441 7799; 8695 1441 7803 8695 1441 7814; 8695 1441 7825	

13013 1247434 6290752-70

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								SS ONLY		Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
Samplers Signatures:																	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
EB01-SA5DN-SS-051711	5.17.11	1230	WATER	NONE	7-1 liter ambers			X	X	X				X	X	
EB01-SA5DN-SS-051711	5.17.11	1230	WATER	HNO3	1 - 500 mL poly	X										
EB01-SA5DN-SS-051711	5.17.11	1230	WATER	NONE	1 - 500 mL poly		X				X	X	X			
Relinquished by: (*Signature*)	Date/Time 05/17/2011 / 1700		Received for Laboratory by: (*Signature*) 5/18/11 920													Laboratory: Lancaster Laboratories, Inc.	
Received by: (*Signature*)	Date/Time		Airbill No(s) 8695 1441 7799; 8695 1441 7803 8695 1441 7814; 8695 1441 7814														

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/09/2011
Group Number: 1236390
SDG: DE100
PO Number: 1203-004-008-AL
Release Number: TRACKIN #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-006-SA5A-SB-2.0-3.0 Soil	6225085
TB-030811 Water	6225086

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Matthew E. Barton
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SB-2.0-3.0

LLI Sample # SW 6225085
LLI Group # 1236390
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/08/2011 09:56

Submitted: 03/09/2011 10:25
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL006 SDG#: DE100-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.98
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.98
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.98
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.98
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.98
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.98
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.98
06192	Methylene Chloride	75-09-2	0.55	J	0.26	4.3		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.98

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Sample Description: SL-006-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SB-2.0-3.0

LLI Sample # SW 6225085
LLI Group # 1236390
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/08/2011 09:56

Submitted: 03/09/2011 10:25
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL006 SDG#: DE100-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.98
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.64
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	28.3	J	18.3	36.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

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SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SB-2.0-3.0

LLI Sample # SW 6225085
LLI Group # 1236390
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/08/2011 09:56

Submitted: 03/09/2011 10:25
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL006 SDG#: DE100-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SB-2.0-3.0

LLI Sample # SW 6225085
LLI Group # 1236390
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/08/2011 09:56

Submitted: 03/09/2011 10:25
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL006 SDG#: DE100-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.6
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SB-2.0-3.0

LLI Sample # SW 6225085
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SL006 SDG#: DE100-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	2.0	J	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.64	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
	Target analytes were detected in the method blank associated with the sample as noted on the QC summary. The recoveries for target analytes in the Laboratory Control Spike are outside the QC acceptance limits as noted on the QC summary. The ending/bracketing CCV was analyzed past the 12 hour window. The following corrective action was taken: The sample was re-extracted within the method hold time. Target analytes were detected in the re-extracted method blank associated with the sample. The C21-C30 and C30-C40 results for the re-extraction are .76 and .56 mg/kg respectively. The inial in hold trial is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

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Sample Description: **SL-006-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SB-2.0-3.0

LLI Sample # SW 6225085
LLI Group # 1236390
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL006 SDG#: DE100-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,200		5.45	21.7		1
07914	Boron	7440-42-8	3.91	J	0.965	5.42		1
01650	Calcium	7440-70-2	3,900		6.65	21.7		1
01654	Iron	7439-89-6	26,600		5.11	21.7		1
01656	Lithium	7439-93-2	38.1		0.24	2.2		1
01657	Magnesium	7439-95-4	7,080		2.75	10.8		1
06958	Manganese	7439-96-5	398		0.0846	0.542		1
10145	Phosphorus	7723-14-0	398		0.607	10.8		1
01662	Potassium	7440-09-7	2,440		19.5	54.2		1
01667	Sodium	7440-23-5	179		40.4	108		1
07968	Strontium	7440-24-6	22.3		0.0672	0.542		1
06969	Tin	7440-31-5	3.01	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,560		0.412	1.08		1
10146	Zirconium	7440-67-7	0.911	U	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.5		0.0859	0.430		2
06126	Barium	7440-39-3	126		0.116	0.430		2
06127	Beryllium	7440-41-7	1.34		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.0983	J	0.0430	0.107		2
06131	Chromium	7440-47-3	31.9		0.129	0.430		2
06132	Cobalt	7440-48-4	10.3		0.0215	0.107		2
06133	Copper	7440-50-8	16.5		0.0709	0.430		2
06135	Lead	7439-92-1	12.7		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.480		0.0537	0.107		2
06139	Nickel	7440-02-0	25.7		0.107	0.430		2
06141	Selenium	7782-49-2	0.290	J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0161	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.436		0.0322	0.107		2
06148	Vanadium	7440-62-2	64.6		0.0236	0.107		2
06149	Zinc	7440-66-6	90.8		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.88	1.6		1

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SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SB-2.0-3.0

LLI Sample # SW 6225085
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/08/2011 09:56

Submitted: 03/09/2011 10:25
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL006 SDG#: DE100-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	382		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-006-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110691AA	03/10/2011 16:45	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011 11:45	Jason M Long	22.64
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106823845	03/09/2011 15:25	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106823845	03/09/2011 15:28	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106823845	03/09/2011 15:28	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106823845	03/09/2011 15:25	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11070SLA026	03/16/2011 16:35	Timothy J Trees	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SB-2.0-3.0

LLI Sample # SW 6225085
LLI Group # 1236390
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/08/2011 09:56

Submitted: 03/09/2011 10:25
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL006 SDG#: DE100-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11074SLA026	03/22/2011 16:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/22/2011 10:34	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11070SLA026	03/12/2011 06:50	David V Hershey Jr	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11074SLA026	03/15/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 12:44	Marie D John	22.6
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201106823845	03/09/2011 15:25	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110710003A	03/16/2011 10:15	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 22:48	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 08:27	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110710003A	03/13/2011 16:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110730021A	03/16/2011 05:42	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110680024A	03/09/2011 22:37	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110680011A	03/10/2011 21:28	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110730020A	03/16/2011 12:43	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110730021A	03/15/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110730020A	03/15/2011 02:45	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110680011A	03/09/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110680024A	03/09/2011 16:50	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 19:55	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:15	Choon Y Tian	2

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Sample Description: **SL-006-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5A-SB-2.0-3.0

LLI Sample # SW 6225085
LLI Group # 1236390
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/08/2011 09:56

Submitted: 03/09/2011 10:25
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL006 SDG#: DE100-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11075495201A	03/18/2011 10:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11075495201A	03/18/2011 10:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201A	03/17/2011 20:21	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 14:48	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11073102201A	03/14/2011 15:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11075495201A	03/17/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201A	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11073102201A	03/14/2011 10:00	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11074182101A	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401A	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-030811 Water
SSFL Area IV Collocated Soil Sampling
TB-030811

LLI Sample # WW 6225086
LLI Group # 1236390
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/08/2011 08:00

Submitted: 03/09/2011 10:25
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB308 SDG#: DE100-02TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **TB-030811 Water**
SSFL Area IV Collocated Soil Sampling
TB-030811

LLI Sample # WW 6225086
LLI Group # 1236390
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/08/2011 08:00

Submitted: 03/09/2011 10:25
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB308 SDG#: DE100-02TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110691AA	03/10/2011	13:21	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110682AA	03/09/2011	15:55	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110682AA	03/09/2011	15:55	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110691AA	03/10/2011	13:21	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11072B20A	03/14/2011	13:37	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11072B20A	03/14/2011	13:37	Katrina T Longenecker	1

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Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236390
Reported: 03/31/11 at 10:21 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110691AA	Sample number(s): 6225085									
Acetone	6.7	U	6.7	8.0	ug/kg	113	108	32-209	5	30
Benzene	0.10	U	0.10	4.0	ug/kg	97	98	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	97	99	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	118	119	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	91	92	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	83	83	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	68	69	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	107	104	46-153	3	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	101	102	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	104	104	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	95	97	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	88	88	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	92	94	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	68	70	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	100	99	43-146	1	30
Chloroform	0.12	U	0.12	4.0	ug/kg	96	97	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	70	72	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97	98	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95	97	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	101	98	22-131	2	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	95	95	58-120	0	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	86	86	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95	97	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97	99	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	94	94	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	94	95	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	94	96	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	54	54	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	95	96	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97	99	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101	101	73-123	0	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	97	99	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	96	97	79-120	1	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	94	96	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	95	97	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	87	90	72-123	3	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	95	94	77-120	0	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88	90	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86	87	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	94	94	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	101	99	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	111	108	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	93	95	57-120	3	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	106	104	45-155	2	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	94	94	76-120	0	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	101	102	75-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236390
Reported: 03/31/11 at 10:21 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	97	97	74-121	0	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	102	101	61-134	1	30
Methylene Chloride	0.68	J	0.24	4.0	ug/kg	103	104	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	102	103	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	90	91	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	87	88	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	101	101	71-123	0	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	91	91	77-120	0	30
Toluene	0.08	U	0.08	4.0	ug/kg	94	95	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94	94	64-120	0	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	92	94	68-120	2	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	93	94	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	95	96	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	93	94	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	81	82	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	104	102	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	99	101	79-120	2	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	99	100	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	74	74	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	92	92	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	90	91	80-120	2	30
Batch number: E110682AA	Sample number(s): 6225086									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	113	80-123	9	30
Batch number: E110741AA	Sample number(s): 6225085									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	109	104	70-130	4	30
Batch number: Y110691AA	Sample number(s): 6225086									
Acetone	6	U	6.	20	ug/l	87	88	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	95	97	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	97	99	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	97	98	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	94	94	80-120	0	30
Bromoform	1	U	1.	5	ug/l	73	76	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	87	88	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	104	104	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	95	96	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	98	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	92	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	99	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	93	94	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	83	85	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	116	114	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	101	101	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	81	82	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	98	99	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	96	97	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	81	82	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	80	83	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	86	86	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	95	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	98	99	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	93	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	95	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	77	76	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	99	79-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236390
Reported: 03/31/11 at 10:21 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	110	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	89	88	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	96	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	99	101	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	97	97	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	100	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	93	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	88	86	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	100	102	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	83	88	58-120	6	30
2-Hexanone	3	U	3.	10	ug/l	99	100	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	92	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	96	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	99	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	98	100	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	93	94	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	100	102	80-120	2	30
Styrene	1	U	1.	5	ug/l	88	89	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	91	92	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	92	96	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	93	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	92	94	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	79	84	65-120	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	88	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	88	87	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	93	97	80-120	4	30
Trichloroethene	1	U	1.	5	ug/l	96	96	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	95	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	100	101	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	99	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	98	99	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	80	81	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	91	92	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	90	90	80-120	1	30
Batch number: 11070SLA026	Sample number(s): 6225085									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	85		70-130		
Batch number: 11074SLA026	Sample number(s): 6225085									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	29		15-121		
Benzoic acid	170 U		170.	500	ug/kg	92		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	95		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		79-117		
Di-n-butylphthalate	17	U	17.	170	ug/kg	95		79-112		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	24		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	91		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236390
Reported: 03/31/11 at 10:21 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	89		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	70		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	52		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	78		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	74		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	90		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	88		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	83		68-105		
Isophorone	17	U	17.	170	ug/kg	86		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	98		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	91		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	83		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	84		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	89		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	85		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	90		51-117		
Phenol	17	U	17.	170	ug/kg	93		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 11074SLB026	Sample number(s): 6225085									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	93		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	100		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	106		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	120		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Chrysene	0.33	U	0.33	1.7	ug/kg	100		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	121		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	99		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	120		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	92		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	123		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	91		56-121		
Batch number: 11072B20A	Sample number(s): 6225086									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	91	75-135	18	30
Batch number: 11073A34A	Sample number(s): 6225085									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	72		67-119		
Batch number: 110710003A	Sample number(s): 6225085									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	116		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	121	115	54-134	5	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	120	114	54-134	5	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	112		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
HMX	100 U		100.	300	ug/kg	102		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	101		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	109		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	107		80-120		
PETN	800 U		800.	2,400	ug/kg	116		80-120		
RDX	50	U	50.	120	ug/kg	102		75-131		
Tetryl	61	U	61.	120	ug/kg	108		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 110730008A	Sample number(s): 6225085									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	96		80-126		
Batch number: 110750014A	Sample number(s): 6225085									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	78	74	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236390
Reported: 03/31/11 at 10:21 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110730021A	Sample number(s): 6225085									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	115*		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	119*		66-113		
EFH (C21-C30)	0.45	J	0.40	1.2	mg/kg	126*		66-113		
EFH (C30 - C40)	1.3		0.40	1.2	mg/kg	116*		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	95		66-113		
Batch number: 110680011A	Sample number(s): 6225085									
Diethylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	111		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Batch number: 110680024A	Sample number(s): 6225085									
Ethanol	100 U		100.	500	ug/kg	98		75-112		
Isopropanol	100 U		100.	500	ug/kg	100		75-125		
Methanol	100 U		100.	500	ug/kg	91		75-134		
Batch number: 110730020A	Sample number(s): 6225085									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	80		75-125		
Batch number: 110751026001A	Sample number(s): 6225085									
Antimony	0.0600	U	0.0600	0.200	mg/kg	95		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	110		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	105		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	101		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	106		80-120		
Lead	0.0105	J	0.0104	0.200	mg/kg	106		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	108		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	102		90-110		
Zinc	0.644	J	0.560	3.00	mg/kg	101		78-122		
Batch number: 110751026001B	Sample number(s): 6225085									
Selenium	0.0400	U	0.0400	0.400	mg/kg	113		79-122		
Batch number: 110751026001C	Sample number(s): 6225085									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	109		78-122		
Batch number: 110751026001D	Sample number(s): 6225085									
Barium	0.108	U	0.108	0.400	mg/kg	103		79-121		
Batch number: 110755708001	Sample number(s): 6225085									
Aluminum	5.03	U	5.03	20.0	mg/kg	99		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	98		78-110		
Calcium	8.02	J	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	93		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236390
Reported: 03/31/11 at 10:21 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		81-119		
Phosphorus	1.34	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.44	J	1.00	10.0	mg/kg	98		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	98		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 110755711002	Sample number(s): 6225085									
Mercury	0.0028	U	0.0028	0.0985	mg/kg	98		88-123		
Batch number: 11073102201A	Sample number(s): 6225085									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11074243201A	Sample number(s): 6225085									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11075495201A	Sample number(s): 6225085									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	107		90-110		
Batch number: 11076076201A	Sample number(s): 6225085									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11074039401A	Sample number(s): 6225085									
18a pH by 9045C						100		95-105		
Batch number: 11074182101A	Sample number(s): 6225085									
32a OR Potential						99		98-102		
Batch number: 11077162401A	Sample number(s): 6225085									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E110741AA	Sample number(s): 6225085			UNSPK: P228978					
1,4-Dioxane	95	98	70-130	11	30				
Batch number: 11070SLA026	Sample number(s): 6225085			UNSPK: P222144					
N-Nitrosodimethylamine	77	72	70-130	6	30				
Batch number: 11074SLA026	Sample number(s): 6225085			UNSPK: P223281					
Aniline	73	75	35-95	2	30				
Benzidine	29*	32*	35-141	8	30				
Benzoic acid	73	65	10-173	11	30				
Benzyl alcohol	89	89	67-115	0	30				
4-Bromophenyl-phenylether	90	91	67-129	0	30				
Di-n-butylphthalate	90	90	67-123	0	30				

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Reported: 03/31/11 at 10:21 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbazole	91	91	64-120	1	30				
4-Chloro-3-methylphenol	89	88	76-110	2	30				
4-Chloroaniline	62	60	23-95	3	30				
bis(2-Chloroethoxy)methane	87	86	75-104	1	30				
bis(2-Chloroethyl)ether	84	83	60-116	1	30				
bis(2-Chloroisopropyl)ether	84	82	55-142	3	30				
2-Chloronaphthalene	70	71	50-141	1	30				
2-Chlorophenol	92	90	73-121	2	30				
4-Chlorophenyl-phenylether	95	94	80-109	1	30				
Dibenzofuran	92	93	71-112	1	30				
1,2-Dichlorobenzene	82	81	66-108	1	30				
1,3-Dichlorobenzene	79	76	63-109	3	30				
1,4-Dichlorobenzene	79	78	70-100	2	30				
3,3'-Dichlorobenzidine	64	65	16-119	2	30				
2,4-Dichlorophenol	93	92	78-117	1	30				
2,4-Dimethylphenol	89	88	78-110	0	30				
3,5-Dimethylphenol	100	96	70-130	4	30				
4,6-Dinitro-2-methylphenol	78	79	24-116	1	30				
2,4-Dinitrophenol	71	72	20-143	1	30				
2,4-Dinitrotoluene	92	94	73-113	2	30				
2,6-Dinitrotoluene	92	93	69-123	1	30				
1,2-Diphenylhydrazine	88	88	71-129	0	30				
Hexachlorobenzene	92	92	77-114	1	30				
Hexachlorobutadiene	83	82	62-120	2	30				
Hexachlorocyclopentadiene	85	75	10-153	12	30				
Hexachloroethane	74	73	57-109	1	30				
Isophorone	83	82	73-102	1	30				
2-Methylphenol	92	90	75-111	2	30				
4-Methylphenol	95	87	71-111	9	30				
2-Nitroaniline	90	93	67-125	3	30				
3-Nitroaniline	89	89	59-122	1	30				
4-Nitroaniline	74	74	52-112	0	30				
Nitrobenzene	81	81	72-106	0	30				
2-Nitrophenol	84	86	74-115	2	30				
4-Nitrophenol	80	81	54-113	2	30				
N-Nitroso-di-n-propylamine	80	80	60-116	0	30				
N-Nitrosodiphenylamine	94	95	86-145	1	30				
Pentachlorophenol	81	83	28-127	3	30				
Phenol	90	89	58-126	1	30				
1,2,4-Trichlorobenzene	87	87	72-115	0	30				
2,4,5-Trichlorophenol	92	92	78-109	0	30				
2,4,6-Trichlorophenol	89	90	77-115	2	30				
Batch number: 11074SLB026	Sample number(s): 6225085 UNSPK: P222138								
Acenaphthene	96	96	63-105	1	30				
Acenaphthylene	97	96	67-114	1	30				
Anthracene	101	101	60-122	0	30				
Benzo(a)anthracene	104	102	59-128	2	30				
Benzo(a)pyrene	110	110	45-138	0	30				
Benzo(b)fluoranthene	114	121	43-155	6	30				
Benzo(g,h,i)perylene	115	126	33-141	9	30				
Benzo(k)fluoranthene	113	103	42-144	10	30				
Butylbenzylphthalate	114	104	57-173	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236390
Reported: 03/31/11 at 10:21 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chrysene	103	102	48-134	2	30				
Dibenz(a,h)anthracene	120	128	22-133	7	30				
Diethylphthalate	111	102	70-136	9	30				
Dimethylphthalate	110	111	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	117	107	39-167	9	30				
Fluoranthene	111	104	26-166	6	30				
Fluorene	105	101	66-122	3	30				
Indeno(1,2,3-cd)pyrene	117	126	21-143	7	30				
1-Methylnaphthalene	99	99	72-123	0	30				
2-Methylnaphthalene	90	90	64-103	0	30				
Naphthalene	98	98	61-102	0	30				
N-Nitrosodimethylamine	99	97	48-113	2	30				
Di-n-octylphthalate	124	115	40-192	8	30				
Phenanthrene	98	98	12-165	0	30				
Pyrene	90	87	15-153	4	30				
Batch number: 11073A34A	Sample number(s): 6225085 UNSPK: P228978								
9a TPH by EPA 8015B Gas C5-C12	59	60	39-118	18	30				
Batch number: 110710003A	Sample number(s): 6225085 UNSPK: P222144								
4-Amino-2,6-Dinitrotoluene	89	92	80-127	3	50				
2-Amino-4,6-Dinitrotoluene	87	89	80-137	2	50				
1,3-Dinitrobenzene	90	92	38-166	3	50				
2,4-Dinitrotoluene	87	89	80-131	3	50				
2,6-Dinitrotoluene	91	93	80-127	2	50				
HMX	75	77	63-128	2	50				
Nitrobenzene	88	91	80-125	4	50				
Nitroglycerin	83	85	80-120	3	50				
2-Nitrotoluene	90	91	80-122	1	50				
3-Nitrotoluene	90	91	72-119	1	50				
4-Nitrotoluene	88	90	80-125	2	50				
PETN	89	91	80-121	3	50				
RDX	74*	77	75-129	4	50				
Tetryl	75	72	55-174	4	50				
1,3,5-Trinitrobenzene	89	90	82-126	2	50				
2,4,6-Trinitrotoluene	88	91	82-130	3	50				
Batch number: 110730008A	Sample number(s): 6225085 UNSPK: P228978								
25a Formaldehyde 8315A	99	95	80-120	4	50				
Batch number: 110750014A	Sample number(s): 6225085 UNSPK: P228978								
PCB-1016	88	94	29-146	7	50				
PCB-1260	95	107	39-149	12	50				
Batch number: 110730021A	Sample number(s): 6225085 UNSPK: P224306								
EFH (C12-C14)	111	102	49-123	8	20				
EFH (C15-C20)	131*	121	49-123	8	20				
EFH (C21-C30)	113	121	49-123	5	20				
EFH (C30 - C40)	35*	156*	49-123	51*	20				
EFH (C8-C11)	107	108	49-123	1	20				
Batch number: 110680011A	Sample number(s): 6225085 UNSPK: P224306								
Diethylene glycol	85	81	59-109	5	20				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylene glycol	88	86	63-107	1	20				
Propylene glycol	83	82	63-107	1	20				
Batch number: 110680024A	Sample number(s): 6225085 UNSPK: P224306								
Ethanol	82	81	24-143	1	20				
Isopropanol	86	85	75-125	1	20				
Methanol	80	80	45-136	0	20				
Batch number: 110730020A	Sample number(s): 6225085 UNSPK: P222144								
m-Terphenyl	78	78	75-125	1	20				
o-Terphenyl	93	95	75-125	2	20				
p-Terphenyl	77	77	75-125	1	20				
Batch number: 110751026001A	Sample number(s): 6225085 UNSPK: P228978 BKG: P228978								
Antimony	50*	45*	75-125	10	20	0.224	0.155 J	36* (1)	20
Arsenic	105	107	75-125	0	20	7.19	5.70	23*	20
Beryllium	102	99	75-125	2	20	0.883	0.733	18	20
Cadmium	128*	108	75-125	15	20	0.344	0.210	49* (1)	20
Chromium	96	89	75-125	2	20	34.2	28.1	20	20
Cobalt	105	94	75-125	12	20	7.97	7.62	4	20
Copper	95	89	75-125	4	20	13.6	12.3	10	20
Lead	162*	96	75-125	14	20	10.3	8.72	16	20
Nickel	160*	110	75-125	15	20	21.4	18.1	17	20
Silver	117	118	75-125	1	20	0.0603 J	0.0471 J	25* (1)	20
Thallium	128*	95	75-125	18	20	0.323	0.250	25* (1)	20
Vanadium	119 (2)	96 (2)	75-125	3	20	63.4	53.0	18	20
Zinc	66 (2)	69 (2)	75-125	0	20	63.4	54.4	15	20
Batch number: 110751026001B	Sample number(s): 6225085 UNSPK: P228978 BKG: P228978								
Selenium	111	106	75-125	7	20	0.125 J	0.0660 J	62* (1)	20
Batch number: 110751026001C	Sample number(s): 6225085 UNSPK: P228978 BKG: P228978								
Molybdenum	120	113	75-125	8	20	0.270	0.240	12 (1)	20
Batch number: 110751026001D	Sample number(s): 6225085 UNSPK: P228978 BKG: P228978								
Barium	134 (2)	116 (2)	75-125	2	20	117	92.8	23*	20
Batch number: 110755708001	Sample number(s): 6225085 UNSPK: P228978 BKG: P228978								
Aluminum	1171 (2)	414 (2)	75-125	5	20	28,700	27,700	3	20
Boron	99	99	84-115	2	20	10.7	10.2	5 (1)	20
Calcium	6342 (2)	7873 (2)	75-125	12	20	27,700	33,300	18	20
Iron	-650 (2)	-2631 (2)	75-125	8	20	26,400	25,500	4	20
Lithium	104	103	82-114	2	20	25.5	25.1	2	20
Magnesium	-50 (2)	-194 (2)	75-125	5	20	6,430	6,210	3	20
Manganese	-167 (2)	-131 (2)	75-125	6	20	350	356	2	20
Phosphorus	77	89	75-125	5	20	190	209	9	20
Potassium	118	110	75-125	1	20	2,650	2,690	2	20
Sodium	100	99	75-125	2	20	219	211	4 (1)	20

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Quality Control Summary

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Reported: 03/31/11 at 10:21 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Strontium	102	93	75-115	4	20	52.0		52.4		1	20
Tin	84	84	80-110	3	20	2.40	J	2.16	J	10 (1)	20
Titanium	163 (2)	138 (2)	75-125	1	20	1,210		1,190		2	20
Zirconium	95	96	75-125	3	20	4.30	J	5.09		17 (1)	20
Batch number: 110755711002	Sample number(s): 6225085 UNSPK: P228978 BKG: P228978										
Mercury	108	103	65-135	7	20	0.0071	J	0.0110	J	43* (1)	20
Batch number: 11073102201A	Sample number(s): 6225085 UNSPK: P222144 BKG: P222144										
17a Cyanide by 9012B	105		75-125			0.17	U	0.17	U	0 (1)	20
Batch number: 11074243201A	Sample number(s): 6225085 UNSPK: P228978 BKG: P228978										
3a Cr VI by EPA 7199	89		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11075495201A	Sample number(s): 6225085 UNSPK: P223281 BKG: P223281										
11a Anions by 300.0 - Fluoride	49*		80-120			4.6		4.0		13 (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			2.8		2.0		32* (1)	20
Batch number: 11076076201A	Sample number(s): 6225085 UNSPK: P224306 BKG: P224306										
7a Perchlorate EPA 314.0	115		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11074039401A	Sample number(s): 6225085 BKG: 6225085										
18a pH by 9045C						6.66		6.66		0	1
Batch number: 11074182101A	Sample number(s): 6225085 BKG: 6225085										
32a OR Potential						382		385		1	6
Batch number: 11077162401A	Sample number(s): 6225085 BKG: P226876										
Moisture Content by 160.3						13.6		13.7		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6225085	97	97	98	95
Blank	99	102	97	97
LCS	101	103	101	99
LCSD	100	103	100	99
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110682AA

	Toluene-d8

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236390
Reported: 03/31/11 at 10:21 AM

Surrogate Quality Control

6225086	96
Blank	96
LCS	96
LCSD	96
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110741AA

	Toluene-d8
6225085	96
Blank	95
LCS	95
LCSD	99
MS	95
MSD	96
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6225086	103	98	101	98
Blank	105	99	102	100
LCS	104	99	101	99
LCSD	103	103	101	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11070SLA026

	N-Nitrosodimethylamine-d6
6225085	83
Blank	85
LCS	83
MS	85
MSD	88
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11074SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6225085	84	86	82	72	84	92
Blank	84	87	89	77	86	83
LCS	95	96	101	82	91	91
MS	91	92	97	79	91	89
MSD	89	90	97	79	91	90
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236390
Reported: 03/31/11 at 10:21 AM

Surrogate Quality Control

Batch number: 11074SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6225085	94	91	82
Blank	98	93	100
LCS	97	91	94
MS	103	94	93
MSD	102	95	90
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11072B20A

	Trifluorotoluene-F
6225086	78
Blank	78
LCS	101
LCSD	98
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11073A34A

	Trifluorotoluene-F
6225085	78
Blank	82
LCS	86
MS	76
MSD	74
Limits:	61-122

Analysis Name: 16a Energetics by 8330A
Batch number: 110710003A

	2-Nitro-m-xylene
6225085	110
Blank	115
LCS	124
LCSD	114
MS	103
MSD	99
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110730008A

	Butyraldehyde
6225085	103
Blank	101
LCS	102
MS	98
MSD	93

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236390
Reported: 03/31/11 at 10:21 AM

Surrogate Quality Control

Limits: 64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110750014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6225085	78	78
Blank	94	74
LCS	96	90
LCSD	95	92
MS	89	78
MSD	97	89
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110680011A

	Tetramethylene glycol
6225085	54
Blank	108
LCS	103
MS	86
MSD	83
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 110680024A

	Acetone
6225085	81
Blank	91
LCS	89
MS	78
MSD	76
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110730020A

	n-Triacontane-d62
6225085	75
Blank	87
LCS	78
MS	74
MSD	73
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110730021A

	Chlorobenzene	Orthoterphenyl
6225085	80	108
Blank	80	114

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236390
Reported: 03/31/11 at 10:21 AM

Surrogate Quality Control

LCS	86	117
MS	82	116
MSD	79	106
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1236390 6225085-86

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-006-SA5A-SB-2.0-3.0	03.08.11	956	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	Collection times were added per PB. NM 3/10/11
SL-006-SA5A-SB-2.5	03.08.11	951	SOIL	NONE	5-Encores									X	X	X											
TB-030811	03.08.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK
Relinquished by: (Signature)	Date/Time 03/08/2011 / 17:00		Received for Laboratory by: (Signature)		3-9-11 1025																						Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8695 1432 5393																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/12/2011
Group Number: 1237088
SDG: DX062
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP09-SA5A-QC-031111 Soil	6228987
SL-112-SA5A-SB-8.5-9.5 Soil	6228988
SL-112-SA5A-SB-14.0-15.0 Soil	6228989
SL-114-SA5A-SB-4.0-5.0 Soil	6228990
SL-114-SA5A-SB-4.0-5.0MS Soil	6228991
SL-114-SA5A-SB-4.0-5.0MSD Soil	6228992
SL-114-SA5A-SB-9.0-10.0 Soil	6228993
SL-113-SA5A-SB-9.0-10.0 Soil	6228994
SL-113-SA5A-SB-14.0-15.0 Soil	6228995
SL-227-SA5B-SB-2.5-3.5 Soil	6228996

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228987
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6205 SDG#: DX062-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228987
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6205 SDG#: DX062-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0380	JQ	0.0255	1.22	1
11031	12378-PeCDD	40321-76-4	0.0703	JBQ	0.0236	6.08	1
11031	123478-HxCDD	39227-28-6	0.0675	JQ	0.0247	6.08	1
11031	123678-HxCDD	57653-85-7	0.0969	JB	0.0259	6.08	1
11031	123789-HxCDD	19408-74-3	0.151	JB	0.0261	6.08	1
11031	1234678-HpCDD	35822-46-9	0.701	JB	0.0289	6.08	1
11031	OCDD	3268-87-9	2.68	JB	0.0294	12.2	1
11031	2378-TCDF	51207-31-9	0.0354	JBQ	0.0237	1.22	1
11031	12378-PeCDF	57117-41-6	0.116	JBQ	0.0146	6.08	1
11031	23478-PeCDF	57117-31-4	0.190	JBQ	0.0142	6.08	1
11031	123478-HxCDF	70648-26-9	0.158	JB	0.0271	6.08	1
11031	123678-HxCDF	57117-44-9	0.171	JBQ	0.0239	6.08	1
11031	123789-HxCDF	72918-21-9	0.160	JBQ	0.0258	6.08	1
11031	234678-HxCDF	60851-34-5	0.291	JB	0.0244	6.08	1
11031	1234678-HpCDF	67562-39-4	0.857	JB	0.0169	6.08	1
11031	1234789-HpCDF	55673-89-7	0.134	JB	0.0213	6.08	1
11031	OCDF	39001-02-0	0.592	JB	0.0299	12.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228987
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6205 SDG#: DX062-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228987
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6205 SDG#: DX062-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/01/2011 21:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228988
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6206 SDG#: DX062-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228988
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6206 SDG#: DX062-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0289	U	0.0289	1.11	1
11031	12378-PeCDD	40321-76-4	0.0254	U	0.0254	5.54	1
11031	123478-HxCDD	39227-28-6	0.0592	JQ	0.0303	5.54	1
11031	123678-HxCDD	57653-85-7	0.145	JBQ	0.0314	5.54	1
11031	123789-HxCDD	19408-74-3	0.164	JBQ	0.0313	5.54	1
11031	1234678-HpCDD	35822-46-9	3.96	JB	0.0360	5.54	1
11031	OCDD	3268-87-9	41.5	B	0.0313	11.1	1
11031	2378-TCDF	51207-31-9	0.0296	U	0.0296	1.11	1
11031	12378-PeCDF	57117-41-6	0.182	JBQ	0.0198	5.54	1
11031	23478-PeCDF	57117-31-4	0.261	JB	0.0186	5.54	1
11031	123478-HxCDF	70648-26-9	0.178	JBQ	0.0274	5.54	1
11031	123678-HxCDF	57117-44-9	0.137	JB	0.0254	5.54	1
11031	123789-HxCDF	72918-21-9	0.112	JB	0.0282	5.54	1
11031	234678-HxCDF	60851-34-5	0.261	JB	0.0262	5.54	1
11031	1234678-HpCDF	67562-39-4	0.927	JB	0.0174	5.54	1
11031	1234789-HpCDF	55673-89-7	0.109	JB	0.0202	5.54	1
11031	OCDF	39001-02-0	1.19	JB	0.0277	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228988
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6206 SDG#: DX062-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228988
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6206 SDG#: DX062-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/01/2011 22:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228989
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6207 SDG#: DX062-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228989
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6207 SDG#: DX062-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0288	J	0.0237	1.13	1
11031	12378-PeCDD	40321-76-4	0.0371	JB	0.0241	5.64	1
11031	123478-HxCDD	39227-28-6	0.0255	U	0.0255	5.64	1
11031	123678-HxCDD	57653-85-7	0.0957	JBQ	0.0247	5.64	1
11031	123789-HxCDD	19408-74-3	0.0720	JBQ	0.0207	5.64	1
11031	1234678-HpCDD	35822-46-9	0.871	JB	0.0337	5.64	1
11031	OCDD	3268-87-9	7.18	JB	0.0312	11.3	1
11031	2378-TCDF	51207-31-9	0.0231	U	0.0231	1.13	1
11031	12378-PeCDF	57117-41-6	0.0711	JBQ	0.0140	5.64	1
11031	23478-PeCDF	57117-31-4	0.125	JBQ	0.0158	5.64	1
11031	123478-HxCDF	70648-26-9	0.121	JB	0.0271	5.64	1
11031	123678-HxCDF	57117-44-9	0.0824	JB	0.0238	5.64	1
11031	123789-HxCDF	72918-21-9	0.0201	U	0.0201	5.64	1
11031	234678-HxCDF	60851-34-5	0.172	JBQ	0.0202	5.64	1
11031	1234678-HpCDF	67562-39-4	0.647	JB	0.0185	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0946	JB	0.0183	5.64	1
11031	OCDF	39001-02-0	0.500	JB	0.0301	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228989
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6207 SDG#: DX062-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228989
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6207 SDG#: DX062-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/01/2011 23:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228990
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	22.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228990
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0178 JQ	0.0154	1.30	1
11031	12378-PeCDD	40321-76-4	0.0233 JQ	0.0183	6.48	1
11031	123478-HxCDD	39227-28-6	0.0155 U	0.0155	6.48	1
11031	123678-HxCDD	57653-85-7	0.0149 U	0.0149	6.48	1
11031	123789-HxCDD	19408-74-3	0.0505 JBQ	0.0115	6.48	1
11031	1234678-HpCDD	35822-46-9	0.375 JB	0.0245	6.48	1
11031	OCDD	3268-87-9	2.23 JB	0.0304	13.0	1
11031	2378-TCDF	51207-31-9	0.0124 U	0.0124	1.30	1
11031	12378-PeCDF	57117-41-6	0.0216 JB	0.00764	6.48	1
11031	23478-PeCDF	57117-31-4	0.0453 JB	0.00751	6.48	1
11031	123478-HxCDF	70648-26-9	0.0190 U	0.0190	6.48	1
11031	123678-HxCDF	57117-44-9	0.0192 JBQ	0.0132	6.48	1
11031	123789-HxCDF	72918-21-9	0.00777 U	0.00777	6.48	1
11031	234678-HxCDF	60851-34-5	0.0249 JB	0.00738	6.48	1
11031	1234678-HpCDF	67562-39-4	0.0700 JB	0.0142	6.48	1
11031	1234789-HpCDF	55673-89-7	0.0217 JBQ	0.00984	6.48	1
11031	OCDF	39001-02-0	0.134 JB	0.0215	13.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	49	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228990
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228990
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11080001	03/24/2011 04:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11080001	03/21/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228991
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	22.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228991
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	28.1		0.0259	1.30	1
11031	12378-PeCDD	40321-76-4	144		0.0311	6.48	1
11031	123478-HxCDD	39227-28-6	142		0.0733	6.48	1
11031	123678-HxCDD	57653-85-7	140	B	0.0687	6.48	1
11031	123789-HxCDD	19408-74-3	139	B	0.0595	6.48	1
11031	1234678-HpCDD	35822-46-9	138	B	0.0635	6.48	1
11031	OCDD	3268-87-9	293	B	0.0503	13.0	1
11031	2378-TCDF	51207-31-9	29.8		0.0295	1.30	1
11031	12378-PeCDF	57117-41-6	138	B	0.0278	6.48	1
11031	23478-PeCDF	57117-31-4	137	B	0.0280	6.48	1
11031	123478-HxCDF	70648-26-9	137		0.0693	6.48	1
11031	123678-HxCDF	57117-44-9	135	B	0.0504	6.48	1
11031	123789-HxCDF	72918-21-9	132	B	0.0385	6.48	1
11031	234678-HxCDF	60851-34-5	137	B	0.0370	6.48	1
11031	1234678-HpCDF	67562-39-4	134	B	0.0580	6.48	1
11031	1234789-HpCDF	55673-89-7	134	B	0.0505	6.48	1
11031	OCDF	39001-02-0	266	B	0.0522	13.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228991
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228991
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11080001	03/24/2011 05:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11080001	03/21/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228992
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	22.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228992
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	28.1		0.0271	1.30	1
11031	12378-PeCDD	40321-76-4	143		0.0333	6.48	1
11031	123478-HxCDD	39227-28-6	141		0.0870	6.48	1
11031	123678-HxCDD	57653-85-7	141	B	0.0766	6.48	1
11031	123789-HxCDD	19408-74-3	137	B	0.0575	6.48	1
11031	1234678-HpCDD	35822-46-9	137	B	0.0668	6.48	1
11031	OCDD	3268-87-9	274	B	0.0532	13.0	1
11031	2378-TCDF	51207-31-9	29.4		0.0244	1.30	1
11031	12378-PeCDF	57117-41-6	138	B	0.0214	6.48	1
11031	23478-PeCDF	57117-31-4	137	B	0.0222	6.48	1
11031	123478-HxCDF	70648-26-9	137		0.133	6.48	1
11031	123678-HxCDF	57117-44-9	135	B	0.0927	6.48	1
11031	123789-HxCDF	72918-21-9	134	B	0.0479	6.48	1
11031	234678-HxCDF	60851-34-5	136	B	0.0461	6.48	1
11031	1234678-HpCDF	67562-39-4	134	B	0.0970	6.48	1
11031	1234789-HpCDF	55673-89-7	133	B	0.0554	6.48	1
11031	OCDF	39001-02-0	265	B	0.0551	13.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	58	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	42	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	41	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228992
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228992
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11080001	03/24/2011 06:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11080001	03/21/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228993
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6209 SDG#: DX062-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	20.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228993
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6209 SDG#: DX062-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0420	JQ	0.0298	1.26	1
11031	12378-PeCDD	40321-76-4	0.0258	U	0.0258	6.31	1
11031	123478-HxCDD	39227-28-6	0.0294	J	0.0288	6.31	1
11031	123678-HxCDD	57653-85-7	0.101	JB	0.0290	6.31	1
11031	123789-HxCDD	19408-74-3	0.0795	JB	0.0299	6.31	1
11031	1234678-HpCDD	35822-46-9	5.09	JB	0.0376	6.31	1
11031	OCDD	3268-87-9	56.4	B	0.0394	12.6	1
11031	2378-TCDF	51207-31-9	0.0413	JB	0.0287	1.26	1
11031	12378-PeCDF	57117-41-6	0.0431	JBQ	0.0163	6.31	1
11031	23478-PeCDF	57117-31-4	0.192	JB	0.0173	6.31	1
11031	123478-HxCDF	70648-26-9	0.176	JB	0.0290	6.31	1
11031	123678-HxCDF	57117-44-9	0.138	JB	0.0251	6.31	1
11031	123789-HxCDF	72918-21-9	0.0974	JB	0.0303	6.31	1
11031	234678-HxCDF	60851-34-5	0.349	JB	0.0256	6.31	1
11031	1234678-HpCDF	67562-39-4	1.04	JB	0.0170	6.31	1
11031	1234789-HpCDF	55673-89-7	0.134	JB	0.0230	6.31	1
11031	OCDF	39001-02-0	0.840	JB	0.0360	12.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228993
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6209 SDG#: DX062-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-114-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228993
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6209 SDG#: DX062-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 00:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-113-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228994
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6210 SDG#: DX062-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-113-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228994
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6210 SDG#: DX062-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0596	JQ	0.0440	1.13	1
11031	12378-PeCDD	40321-76-4	0.0616	JBQ	0.0392	5.64	1
11031	123478-HxCDD	39227-28-6	0.0976	JQ	0.0365	5.64	1
11031	123678-HxCDD	57653-85-7	0.0366	U	0.0366	5.64	1
11031	123789-HxCDD	19408-74-3	0.133	JBQ	0.0355	5.64	1
11031	1234678-HpCDD	35822-46-9	4.47	JB	0.0534	5.64	1
11031	OCDD	3268-87-9	50.5	B	0.0564	11.3	1
11031	2378-TCDF	51207-31-9	0.0466	U	0.0466	1.13	1
11031	12378-PeCDF	57117-41-6	0.171	JBQ	0.0249	5.64	1
11031	23478-PeCDF	57117-31-4	0.255	JB	0.0268	5.64	1
11031	123478-HxCDF	70648-26-9	0.302	JB	0.0478	5.64	1
11031	123678-HxCDF	57117-44-9	0.158	JB	0.0368	5.64	1
11031	123789-HxCDF	72918-21-9	0.147	JBQ	0.0366	5.64	1
11031	234678-HxCDF	60851-34-5	0.332	JBQ	0.0310	5.64	1
11031	1234678-HpCDF	67562-39-4	1.20	JB	0.0272	5.64	1
11031	1234789-HpCDF	55673-89-7	0.160	JB	0.0311	5.64	1
11031	OCDF	39001-02-0	2.09	JB	0.0496	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228994
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6210 SDG#: DX062-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-113-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228994
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6210 SDG#: DX062-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 01:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228995
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6211 SDG#: DX062-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228995
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6211 SDG#: DX062-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0573	U	0.0573	1.09	1
11031	12378-PeCDD	40321-76-4	0.0448	U	0.0448	5.45	1
11031	123478-HxCDD	39227-28-6	0.0345	U	0.0345	5.45	1
11031	123678-HxCDD	57653-85-7	0.0653	JBQ	0.0336	5.45	1
11031	123789-HxCDD	19408-74-3	0.0558	JBQ	0.0324	5.45	1
11031	1234678-HpCDD	35822-46-9	0.669	JB	0.0430	5.45	1
11031	OCDD	3268-87-9	4.07	JB	0.0397	10.9	1
11031	2378-TCDF	51207-31-9	0.0450	U	0.0450	1.09	1
11031	12378-PeCDF	57117-41-6	0.0616	JBQ	0.0252	5.45	1
11031	23478-PeCDF	57117-31-4	0.206	JB	0.0244	5.45	1
11031	123478-HxCDF	70648-26-9	0.194	JB	0.0486	5.45	1
11031	123678-HxCDF	57117-44-9	0.170	JBQ	0.0383	5.45	1
11031	123789-HxCDF	72918-21-9	0.0927	JB	0.0364	5.45	1
11031	234678-HxCDF	60851-34-5	0.315	JB	0.0329	5.45	1
11031	1234678-HpCDF	67562-39-4	1.15	JB	0.0291	5.45	1
11031	1234789-HpCDF	55673-89-7	0.163	JB	0.0288	5.45	1
11031	OCDF	39001-02-0	0.643	JBQ	0.0490	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	84	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228995
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6211 SDG#: DX062-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228995
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6211 SDG#: DX062-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 02:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228996
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6212 SDG#: DX062-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228996
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6212 SDG#: DX062-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0380	J	0.0210	1.14	1
11031	12378-PeCDD	40321-76-4	0.114	JQ	0.0450	5.70	1
11031	123478-HxCDD	39227-28-6	0.0509	U	0.0509	5.70	1
11031	123678-HxCDD	57653-85-7	0.360	JB	0.0468	5.70	1
11031	123789-HxCDD	19408-74-3	0.427	JB	0.0360	5.70	1
11031	1234678-HpCDD	35822-46-9	4.73	JB	0.0470	5.70	1
11031	OCDD	3268-87-9	94.6	B	0.0353	11.4	1
11031	2378-TCDF	51207-31-9	0.0970	J	0.0217	1.14	1
11031	12378-PeCDF	57117-41-6	0.151	JB	0.0130	5.70	1
11031	23478-PeCDF	57117-31-4	0.220	JB	0.0137	5.70	1
11031	123478-HxCDF	70648-26-9	0.309	J	0.0496	5.70	1
11031	123678-HxCDF	57117-44-9	0.122	JB	0.0334	5.70	1
11031	123789-HxCDF	72918-21-9	0.257	JB	0.0176	5.70	1
11031	234678-HxCDF	60851-34-5	0.0841	JB	0.0161	5.70	1
11031	1234678-HpCDF	67562-39-4	0.482	JB	0.0295	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0917	JB	0.0194	5.70	1
11031	OCDF	39001-02-0	1.12	JB	0.0277	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228996
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6212 SDG#: DX062-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228996
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6212 SDG#: DX062-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11080001	03/24/2011 15:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11080001	03/21/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237088
Reported: 04/06/11 at 10:10 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11083162401A	Sample number(s): 6228987-6228996								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11080001	Sample number(s): 6228990-6228992,6228996								
2378-TCDD	0.0125 U	0.0125	1.00	ng/kg	108		67-158		
12378-PeCDD	0.0122 U	0.0122	5.00	ng/kg	113		70-142		
123478-HxCDD	0.0100 U	0.0100	5.00	ng/kg	111		70-164		
123678-HxCDD	0.0113 J	0.00930	5.00	ng/kg	110		76-134		
123789-HxCDD	0.0158 J	0.00750	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.177 J	0.0140	5.00	ng/kg	107		70-140		
OCDD	0.337 J	0.0154	10.0	ng/kg	107		78-144		
2378-TCDF	0.0101 U	0.0101	1.00	ng/kg	118		75-158		
12378-PeCDF	0.0215 J	0.00510	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0446 J	0.00540	5.00	ng/kg	107		68-160		
123478-HxCDF	0.0153 U	0.0153	5.00	ng/kg	108		72-134		
123678-HxCDF	0.0248 J	0.0100	5.00	ng/kg	105		84-130		
123789-HxCDF	0.0173 J	0.00620	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0230 J	0.00560	5.00	ng/kg	107		70-156		
1234678-HpCDF	0.0538 J	0.0102	5.00	ng/kg	105		82-122		
1234789-HpCDF	0.0217 J	0.00770	5.00	ng/kg	105		78-138		
OCDF	0.0956 J	0.0184	10.0	ng/kg	104		63-170		
Batch number: 11090001	Sample number(s): 6228987-6228989,6228993-6228995								
2378-TCDD	0.0299 U	0.0299	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0588 J	0.0279	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0229 U	0.0229	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0329 J	0.0229	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0392 J	0.0224	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.351 J	0.0348	5.00	ng/kg	90		70-140		
OCDD	0.634 J	0.0353	10.0	ng/kg	91		78-144		
2378-TCDF	0.0440 J	0.0269	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0506 J	0.0165	5.00	ng/kg	92		80-134		
23478-PeCDF	0.169 J	0.0160	5.00	ng/kg	92		68-160		
123478-HxCDF	0.135 J	0.0277	5.00	ng/kg	93		72-134		
123678-HxCDF	0.119 J	0.0219	5.00	ng/kg	94		84-130		
123789-HxCDF	0.116 J	0.0240	5.00	ng/kg	93		78-130		
234678-HxCDF	0.255 J	0.0209	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.742 J	0.0173	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.112 J	0.0206	5.00	ng/kg	91		78-138		
OCDF	0.496 J	0.0336	10.0	ng/kg	93		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237088
Reported: 04/06/11 at 10:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11083162401A	Sample number(s): 6228987-6228996					BKG: P228978			
Moisture Content by 160.3						22.8	22.9	1	20
Batch number: 11080001	Sample number(s): 6228990-6228992,6228996 UNSPK: 6228990								
2378-TCDD	109	108	67-158	0	25				
12378-PeCDD	111	110	70-142	1	25				
123478-HxCDD	109	109	70-164	0	25				
123678-HxCDD	108	108	76-134	1	25				
123789-HxCDD	107	106	64-162	1	25				
1234678-HpCDD	107	106	70-140	1	25				
OCDD	112	105	78-144	7	25				
2378-TCDF	115	114	75-158	1	25				
12378-PeCDF	107	107	80-134	0	25				
23478-PeCDF	106	106	68-160	0	25				
123478-HxCDF	106	106	72-134	0	25				
123678-HxCDF	104	105	84-130	0	25				
123789-HxCDF	102	103	78-130	1	25				
234678-HxCDF	105	105	70-156	0	25				
1234678-HpCDF	103	103	82-122	0	25				
1234789-HpCDF	103	103	78-138	0	25				
OCDF	103	102	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11080001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6228990	84	89	34	49	86	91
6228991	88	90	46	64	88	91
6228992	84	82	29	42	86	87
6228996	77	81	28	41	81	82
Blank	87	85	33	49	87	88
MS	88	90	46	64	88	91
MSD	84	82	29	42	86	87
OPR	84	89	37	53	85	87
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6228990	49	80	69	89	89	68
6228991	64	82	73	91	88	73
6228992	41	77	64	83	86	58
6228996	42	72	62	84	79	59

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237088
Reported: 04/06/11 at 10:10 PM

Surrogate Quality Control

Blank	51	79	69	89	86	67
MS	64	82	73	91	88	73
MSD	41	77	64	83	86	58
OPR	57	79	71	87	91	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6228990	76	88	83	81	89	93
6228991	81	90	85	85	89	95
6228992	70	88	78	78	87	93
6228996	68	82	77	77	83	91
Blank	78	90	86	87	85	96
MS	81	90	85	85	89	95
MSD	70	88	78	78	87	93
OPR	81	88	84	85	83	92
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11090001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6228987	80	93	80	91	86	88
6228988	73	81	83	87	83	85
6228989	70	72	61	68	77	83
6228993	71	80	72	84	77	74
6228994	76	84	56	73	82	77
6228995	77	95	64	80	91	91
Blank	77	82	66	81	83	82
OPR	73	73	49	65	76	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6228987	84	74	66	89	86	79
6228988	78	76	69	78	78	77
6228989	64	70	60	69	78	65
6228993	80	65	58	83	78	76
6228994	74	72	68	84	83	73
6228995	79	87	84	84	92	80
Blank	79	74	68	100	78	75
OPR	62	66	59	85	76	65
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6228987	80	78	70	65	87	99
6228988	78	76	69	68	81	80
6228989	68	77	64	59	77	89
6228993	74	73	63	58	79	92
6228994	76	77	72	71	81	97
6228995	84	86	82	81	90	103

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237088
Reported: 04/06/11 at 10:10 PM

Surrogate Quality Control

Blank	77	78	70	67	79	87
OPR	69	73	65	62	76	83
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1231088 Sample# 6209957-96

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	FIELD DUP
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	5-Encores									X	X	X											FIELD DUP
SL-112-SA5A-SB-8.5-9.5	03.11.11	1206	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-9.0	03.11.11	1203	SOIL	NONE	5-Encores									X	X	X											
SL-112-SA5A-SB-14.0-15.0	03.11.11	1216	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-14.5	03.11.11	1212	SOIL	NONE	5-Encores									X	X	X											
SL-114-SA5A-SB-4.0-5.MS	03.11.11	0834	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-114-SA5A-SB-4.5MS	03.11.11	0830	SOIL	NONE	15-Encores									X	X	X											MS/MSD
SL-114-SA5A-SB-9.0-10.0	03.11.11	0843	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-114-SA5A-SB-9.5	03.11.11	0840	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-9.0-10.0	03.11.11	1529	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-9.5	03.11.11	1525	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-14.0-15.0	03.11.11	1539	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-14.0-14.5 MS	03.11.11	1533	SOIL	NONE	5-Encores									X	X	X											
SL-227-SA5B-SB-2.5-3.5	03.11.11	1410	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-227-SA5B-SB-3.0	03.11.11	1406	SOIL	NONE	5-Encores									X	X	X											
TB-031111	03.11.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/11/2011 / 17:00 — Received for Laboratory by: (*Signature*) Tammy Helm 3/12/11 0950

Received by: (*Signature*) — Date/Time — Airbill No.(s) 8695 1432 5430, ...5420

Laboratory: Lancaster Laboratories, Inc.

-> SL-113-SA5A-SB-14.5 was updated per AMC NLM 3/10/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/14/2011
Group Number: 1237127
SDG: DX062
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-115-SA5A-SB-6.5-7.5 Soil	6229295
SL-115-SA5A-SB-13.0-14.0 Soil	6229296
SL-116-SA5A-SB-6.0-7.0 Soil	6229297
SL-116-SA5A-SB-14.0-15.0 Soil	6229298

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-115-SA5A-SB-6.5-7.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229295
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6201 SDG#: DX062-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-115-SA5A-SB-6.5-7.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229295
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6201 SDG#: DX062-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0286	U	0.0286	1.10	1
11031	12378-PeCDD	40321-76-4	0.0747	JB	0.0330	5.52	1
11031	123478-HxCDD	39227-28-6	0.130	J	0.0551	5.52	1
11031	123678-HxCDD	57653-85-7	0.592	JB	0.0544	5.52	1
11031	123789-HxCDD	19408-74-3	0.305	JB	0.0466	5.52	1
11031	1234678-HpCDD	35822-46-9	22.9	B	0.0768	5.52	1
11031	OCDD	3268-87-9	381	B	0.0533	11.0	1
11031	2378-TCDF	51207-31-9	0.0359	U	0.0359	1.10	1
11031	12378-PeCDF	57117-41-6	0.611	JB	0.0316	5.52	1
11031	23478-PeCDF	57117-31-4	0.586	JB	0.0310	5.52	1
11031	123478-HxCDF	70648-26-9	0.584	JBQ	0.0502	5.52	1
11031	123678-HxCDF	57117-44-9	0.300	JB	0.0390	5.52	1
11031	123789-HxCDF	72918-21-9	0.118	JB	0.0324	5.52	1
11031	234678-HxCDF	60851-34-5	0.441	JB	0.0330	5.52	1
11031	1234678-HpCDF	67562-39-4	2.97	JB	0.0356	5.52	1
11031	1234789-HpCDF	55673-89-7	0.397	JB	0.0335	5.52	1
11031	OCDF	39001-02-0	5.62	JB	0.0354	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-115-SA5A-SB-6.5-7.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229295
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6201 SDG#: DX062-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-115-SA5A-SB-6.5-7.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-6.5-7.5

LLI Sample # SW 6229295
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:22

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6201 SDG#: DX062-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 03:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229296
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6202 SDG#: DX062-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229296
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6202 SDG#: DX062-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0243	U	0.0243	1.12	1
11031	12378-PeCDD	40321-76-4	0.119	JBQ	0.0278	5.58	1
11031	123478-HxCDD	39227-28-6	0.133	JQ	0.0470	5.58	1
11031	123678-HxCDD	57653-85-7	0.337	JB	0.0471	5.58	1
11031	123789-HxCDD	19408-74-3	0.238	JBQ	0.0462	5.58	1
11031	1234678-HpCDD	35822-46-9	15.5	B	0.0675	5.58	1
11031	OCDD	3268-87-9	300	B	0.0570	11.2	1
11031	2378-TCDF	51207-31-9	0.0319	U	0.0319	1.12	1
11031	12378-PeCDF	57117-41-6	0.399	JB	0.0218	5.58	1
11031	23478-PeCDF	57117-31-4	0.357	JB	0.0224	5.58	1
11031	123478-HxCDF	70648-26-9	0.277	JB	0.0402	5.58	1
11031	123678-HxCDF	57117-44-9	0.182	JB	0.0317	5.58	1
11031	123789-HxCDF	72918-21-9	0.172	JB	0.0354	5.58	1
11031	234678-HxCDF	60851-34-5	0.262	JB	0.0302	5.58	1
11031	1234678-HpCDF	67562-39-4	1.74	JB	0.0298	5.58	1
11031	1234789-HpCDF	55673-89-7	0.265	JB	0.0346	5.58	1
11031	OCDF	39001-02-0	3.61	JB	0.0334	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	98	25 - 164
13C12-12378-PeCDD	96	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	107	24 - 169
13C12-12378-PeCDF	113	24 - 185
13C12-23478-PeCDF	102	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	105	26 - 123
13C12-234678-HxCDF	104	28 - 136
13C12-123789-HxCDF	101	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	79	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229296
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6202 SDG#: DX062-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-115-SA5A-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5A-SB-13.0-14.0

LLI Sample # SW 6229296
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 10:44

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6202 SDG#: DX062-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 11:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-116-SA5A-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229297
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6203 SDG#: DX062-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-116-SA5A-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229297
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6203 SDG#: DX062-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0527	JQ	0.0246	1.12	1
11031	12378-PeCDD	40321-76-4	0.123	JB	0.0259	5.59	1
11031	123478-HxCDD	39227-28-6	0.104	J	0.0315	5.59	1
11031	123678-HxCDD	57653-85-7	0.203	JB	0.0303	5.59	1
11031	123789-HxCDD	19408-74-3	0.159	JB	0.0291	5.59	1
11031	1234678-HpCDD	35822-46-9	5.62	B	0.0406	5.59	1
11031	OCDD	3268-87-9	106	B	0.0369	11.2	1
11031	2378-TCDF	51207-31-9	0.0529	JBQ	0.0228	1.12	1
11031	12378-PeCDF	57117-41-6	0.279	JB	0.0163	5.59	1
11031	23478-PeCDF	57117-31-4	0.327	JB	0.0164	5.59	1
11031	123478-HxCDF	70648-26-9	0.432	JB	0.0448	5.59	1
11031	123678-HxCDF	57117-44-9	0.235	JB	0.0354	5.59	1
11031	123789-HxCDF	72918-21-9	0.160	JBQ	0.0302	5.59	1
11031	234678-HxCDF	60851-34-5	0.334	JB	0.0294	5.59	1
11031	1234678-HpCDF	67562-39-4	1.62	JB	0.0288	5.59	1
11031	1234789-HpCDF	55673-89-7	0.184	JB	0.0249	5.59	1
11031	OCDF	39001-02-0	2.09	JB	0.0279	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	97	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	96	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	80	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-116-SA5A-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229297
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6203 SDG#: DX062-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-116-SA5A-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-6.0-7.0

LLI Sample # SW 6229297
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 13:57

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6203 SDG#: DX062-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 12:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-116-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229298
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6204 SDG#: DX062-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-116-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229298
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6204 SDG#: DX062-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0345	U	0.0345	1.14	1
11031	12378-PeCDD	40321-76-4	0.314	JB	0.0397	5.71	1
11031	123478-HxCDD	39227-28-6	0.442	J	0.0490	5.71	1
11031	123678-HxCDD	57653-85-7	1.67	JB	0.0527	5.71	1
11031	123789-HxCDD	19408-74-3	0.953	JB	0.0502	5.71	1
11031	1234678-HpCDD	35822-46-9	50.9	B	0.0533	5.71	1
11031	OCDD	3268-87-9	555	B	0.0679	11.4	1
11031	2378-TCDF	51207-31-9	0.127	JB	0.0419	1.14	1
11031	12378-PeCDF	57117-41-6	0.283	JBQ	0.0258	5.71	1
11031	23478-PeCDF	57117-31-4	1.14	JB	0.0240	5.71	1
11031	123478-HxCDF	70648-26-9	0.569	JB	0.0394	5.71	1
11031	123678-HxCDF	57117-44-9	0.707	JB	0.0359	5.71	1
11031	123789-HxCDF	72918-21-9	0.274	JB	0.0371	5.71	1
11031	234678-HxCDF	60851-34-5	1.18	JB	0.0322	5.71	1
11031	1234678-HpCDF	67562-39-4	7.85	B	0.0361	5.71	1
11031	1234789-HpCDF	55673-89-7	0.877	JB	0.0400	5.71	1
11031	OCDF	39001-02-0	18.6	B	0.0546	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	47	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	98	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-116-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229298
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6204 SDG#: DX062-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-116-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5A-SB-14.0-15.0

LLI Sample # SW 6229298
LLI Group # 1237127
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/10/2011 14:10

Submitted: 03/14/2011 08:45
Reported: 04/06/2011 22:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6204 SDG#: DX062-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 12:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237127
Reported: 04/06/11 at 10:12 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11083162401A	Sample number(s): 6229295-6229298								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11090001	Sample number(s): 6229295-6229298								
2378-TCDD	0.0299 U	0.0299	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0588 J	0.0279	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0229 U	0.0229	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0329 J	0.0229	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0392 J	0.0224	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.351 J	0.0348	5.00	ng/kg	90		70-140		
OCDD	0.634 J	0.0353	10.0	ng/kg	91		78-144		
2378-TCDF	0.0440 J	0.0269	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0506 J	0.0165	5.00	ng/kg	92		80-134		
23478-PeCDF	0.169 J	0.0160	5.00	ng/kg	92		68-160		
123478-HxCDF	0.135 J	0.0277	5.00	ng/kg	93		72-134		
123678-HxCDF	0.119 J	0.0219	5.00	ng/kg	94		84-130		
123789-HxCDF	0.116 J	0.0240	5.00	ng/kg	93		78-130		
234678-HxCDF	0.255 J	0.0209	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.742 J	0.0173	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.112 J	0.0206	5.00	ng/kg	91		78-138		
OCDF	0.496 J	0.0336	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11083162401A	Sample number(s): 6229295-6229298					BKG: P228978			
Moisture Content by 160.3						22.8	22.9	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237127
Reported: 04/06/11 at 10:12 PM

Surrogate Quality Control

Batch number: 11090001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6229295	80	76	53	66	76	83
6229296	98	102	82	105	104	101
6229297	84	93	64	79	96	96
6229298	75	98	76	82	85	83
Blank	77	82	66	81	83	82
OPR	73	73	49	65	76	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6229295	58	67	61	69	72	64
6229296	95	87	79	97	96	91
6229297	70	86	80	90	88	79
6229298	73	71	46	92	92	79
Blank	79	74	68	100	78	75
OPR	62	66	59	85	76	65
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6229295	66	74	61	61	83	84
6229296	93	93	82	78	107	113
6229297	86	87	78	77	97	103
6229298	81	78	67	47	87	99
Blank	77	78	70	67	79	87
OPR	69	73	65	62	76	83
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

A#1303 G#122514.1 Amended 4-15

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Amended COC
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-115-SA5A-SB-6.5-7.5	03.10.11	1022	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-115-SA5A-SB-7.0	03.10.11	1017	SOIL	NONE	5-Encores									X	X	X										
SL-115-SA5A-SB-13.0-14.0	03.10.11	1044	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-115-SA5A-SB-13.5	03.10.11	1030	SOIL	NONE	5-Encores									X	X	X										
SL-116-SA5A-SB-6.0-7.0	03.10.11	1357	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-116-SA5A-SB-6.5	03.10.11	1350	SOIL	NONE	5-Encores									X	X	X										
SL-116-SA5A-SB-14.0-15.0	03.10.11	1410	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-116-SA5A-SB-14.5	03.10.11	1405	SOIL	NONE	5-Encores									X	X	X										
TB-031011	03.10.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X										TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 03/10/2011 / 17:00		Received for Laboratory by: (*Signature*)																							Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8695 1432 5419																							

13013 1237127 6229295-98

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-115-SA5S-SB-6.5-7.5	03.10.11	1022	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-115-SA5S-SB-7.0	03.10.11	1017	SOIL	NONE	5-Encores									X	X	X											
SL-115-SA5S-SB-13.0-14.0	03.10.11	1044	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-115-SA5S-SB-13.5	03.10.11	1030	SOIL	NONE	5-Encores									X	X	X											
SL-116-SA5A-SB-6.0-7.0	03.10.11	1357	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-116-SA5A-SB-6.5	03.10.11	1350	SOIL	NONE	5-Encores									X	X	X											
SL-116-SA5A-SB-14.0-15.0	03.10.11	1410	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-116-SA5A-SB-14.5	03.10.11	1405	SOIL	NONE	5-Encores									X	X	X											
TB-031011	03.10.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 03/10/2011 / 17:00 — Received for Laboratory by: (Signature) LL3 3/14/11 8:45 — Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time — Airbill No.(s): 8695 1432 5419

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/15/2011
Group Number: 1237325
SDG: DX062
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-121-SA5A-SB-2.0-3.0 Soil	6230066
SL-118-SA5A-SB-2.5-3.5 Soil	6230067
SL-117-SA5A-SB-5.0-6.0 Soil	6230068
SL-001-SA5A-SB-4.0-5.0 Soil	6230069

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230066
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD121 SDG#: DX062-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230066
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD121 SDG#: DX062-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0400	U	0.0400	1.08	1
11031	12378-PeCDD	40321-76-4	0.0530	JBQ	0.0406	5.40	1
11031	123478-HxCDD	39227-28-6	0.0853	J	0.0428	5.40	1
11031	123678-HxCDD	57653-85-7	0.112	JB	0.0419	5.40	1
11031	123789-HxCDD	19408-74-3	0.103	JBQ	0.0386	5.40	1
11031	1234678-HpCDD	35822-46-9	4.44	JB	0.0550	5.40	1
11031	OCDD	3268-87-9	41.6	B	0.0632	10.8	1
11031	2378-TCDF	51207-31-9	0.0624	U	0.0624	1.08	1
11031	12378-PeCDF	57117-41-6	0.257	JBQ	0.0287	5.40	1
11031	23478-PeCDF	57117-31-4	0.162	JB	0.0276	5.40	1
11031	123478-HxCDF	70648-26-9	0.236	JB	0.0488	5.40	1
11031	123678-HxCDF	57117-44-9	0.155	JB	0.0379	5.40	1
11031	123789-HxCDF	72918-21-9	0.134	JB	0.0362	5.40	1
11031	234678-HxCDF	60851-34-5	0.243	JB	0.0296	5.40	1
11031	1234678-HpCDF	67562-39-4	0.848	JB	0.0443	5.40	1
11031	1234789-HpCDF	55673-89-7	0.186	JB	0.0464	5.40	1
11031	OCDF	39001-02-0	1.17	JBQ	0.0653	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230066
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD121 SDG#: DX062-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-121-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5A-SB-2.0-3.0

LLI Sample # SW 6230066
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 12:02

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD121 SDG#: DX062-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 13:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401B	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230067
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD118 SDG#: DX062-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230067
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD118 SDG#: DX062-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0270 U	0.0270	1.10	1
11031	12378-PeCDD	40321-76-4	0.0681 JBQ	0.0235	5.51	1
11031	123478-HxCDD	39227-28-6	0.0438 JQ	0.0280	5.51	1
11031	123678-HxCDD	57653-85-7	0.128 JB	0.0288	5.51	1
11031	123789-HxCDD	19408-74-3	0.181 JB	0.0281	5.51	1
11031	1234678-HpCDD	35822-46-9	1.55 JB	0.0387	5.51	1
11031	OCDD	3268-87-9	16.9 B	0.0482	11.0	1
11031	2378-TCDF	51207-31-9	0.0265 JBQ	0.0243	1.10	1
11031	12378-PeCDF	57117-41-6	0.0891 JB	0.0151	5.51	1
11031	23478-PeCDF	57117-31-4	0.119 JB	0.0144	5.51	1
11031	123478-HxCDF	70648-26-9	0.125 JB	0.0298	5.51	1
11031	123678-HxCDF	57117-44-9	0.0974 JB	0.0236	5.51	1
11031	123789-HxCDF	72918-21-9	0.115 JB	0.0218	5.51	1
11031	234678-HxCDF	60851-34-5	0.131 JB	0.0198	5.51	1
11031	1234678-HpCDF	67562-39-4	0.502 JB	0.0286	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0852 JB	0.0283	5.51	1
11031	OCDF	39001-02-0	0.639 JB	0.0421	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	93	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230067
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD118 SDG#: DX062-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-118-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5A-SB-2.5-3.5

LLI Sample # SW 6230067
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 10:33

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD118 SDG#: DX062-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 14:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401B	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230068
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD117 SDG#: DX062-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-117-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230068
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD117 SDG#: DX062-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0321 J	0.0274	1.12	1
11031	12378-PeCDD	40321-76-4	0.0501 JBQ	0.0275	5.62	1
11031	123478-HxCDD	39227-28-6	0.0270 U	0.0270	5.62	1
11031	123678-HxCDD	57653-85-7	0.0664 JB	0.0283	5.62	1
11031	123789-HxCDD	19408-74-3	0.103 JB	0.0270	5.62	1
11031	1234678-HpCDD	35822-46-9	0.479 JB	0.0360	5.62	1
11031	OCDD	3268-87-9	2.99 JB	0.0407	11.2	1
11031	2378-TCDF	51207-31-9	0.0402 JB	0.0213	1.12	1
11031	12378-PeCDF	57117-41-6	0.0908 JB	0.0142	5.62	1
11031	23478-PeCDF	57117-31-4	0.133 JB	0.0139	5.62	1
11031	123478-HxCDF	70648-26-9	0.132 JBQ	0.0220	5.62	1
11031	123678-HxCDF	57117-44-9	0.0692 JB	0.0194	5.62	1
11031	123789-HxCDF	72918-21-9	0.0953 JBQ	0.0217	5.62	1
11031	234678-HxCDF	60851-34-5	0.120 JBQ	0.0193	5.62	1
11031	1234678-HpCDF	67562-39-4	0.363 JB	0.0193	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0819 JB	0.0238	5.62	1
11031	OCDF	39001-02-0	0.326 JB	0.0406	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	94	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230068
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD117 SDG#: DX062-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-117-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5A-SB-5.0-6.0

LLI Sample # SW 6230068
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 09:14

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD117 SDG#: DX062-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 15:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401B	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230069
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX062-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230069
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX062-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0326 U	0.0326	1.13	1
11031	12378-PeCDD	40321-76-4	0.0378 JBQ	0.0265	5.66	1
11031	123478-HxCDD	39227-28-6	0.0350 J	0.0233	5.66	1
11031	123678-HxCDD	57653-85-7	0.0644 JBQ	0.0222	5.66	1
11031	123789-HxCDD	19408-74-3	0.0499 JBQ	0.0224	5.66	1
11031	1234678-HpCDD	35822-46-9	0.424 JB	0.0362	5.66	1
11031	OCDD	3268-87-9	3.10 JB	0.0481	11.3	1
11031	2378-TCDF	51207-31-9	0.0317 U	0.0317	1.13	1
11031	12378-PeCDF	57117-41-6	0.0246 JBQ	0.0147	5.66	1
11031	23478-PeCDF	57117-31-4	0.115 JB	0.0157	5.66	1
11031	123478-HxCDF	70648-26-9	0.0464 JB	0.0308	5.66	1
11031	123678-HxCDF	57117-44-9	0.0644 JBQ	0.0219	5.66	1
11031	123789-HxCDF	72918-21-9	0.0901 JBQ	0.0203	5.66	1
11031	234678-HxCDF	60851-34-5	0.122 JB	0.0166	5.66	1
11031	1234678-HpCDF	67562-39-4	0.330 JB	0.0256	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0604 JB	0.0268	5.66	1
11031	OCDF	39001-02-0	0.429 JB	0.0472	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230069
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX062-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-001-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5A-SB-4.0-5.0

LLI Sample # SW 6230069
LLI Group # 1237325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/14/2011 14:57

Submitted: 03/15/2011 09:30
Reported: 04/06/2011 22:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX062-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 16:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401B	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237325
Reported: 04/06/11 at 10:14 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11083162401B	Sample number(s): 6230066-6230069								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11090001	Sample number(s): 6230066-6230069								
2378-TCDD	0.0299 U	0.0299	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0588 J	0.0279	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0229 U	0.0229	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0329 J	0.0229	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0392 J	0.0224	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.351 J	0.0348	5.00	ng/kg	90		70-140		
OCDD	0.634 J	0.0353	10.0	ng/kg	91		78-144		
2378-TCDF	0.0440 J	0.0269	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0506 J	0.0165	5.00	ng/kg	92		80-134		
23478-PeCDF	0.169 J	0.0160	5.00	ng/kg	92		68-160		
123478-HxCDF	0.135 J	0.0277	5.00	ng/kg	93		72-134		
123678-HxCDF	0.119 J	0.0219	5.00	ng/kg	94		84-130		
123789-HxCDF	0.116 J	0.0240	5.00	ng/kg	93		78-130		
234678-HxCDF	0.255 J	0.0209	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.742 J	0.0173	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.112 J	0.0206	5.00	ng/kg	91		78-138		
OCDF	0.496 J	0.0336	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11083162401B	Sample number(s): 6230066-6230069					BKG: P230064			
Moisture Content by 160.3						11.7	11.3	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237325
Reported: 04/06/11 at 10:14 PM

Surrogate Quality Control

Batch number: 11090001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6230066	68	82	53	68	81	75
6230067	82	95	65	79	92	89
6230068	76	91	85	94	90	85
6230069	72	80	49	66	88	81
Blank	77	82	66	81	83	82
OPR	73	73	49	65	76	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6230066	64	66	56	89	80	72
6230067	70	78	66	87	91	83
6230068	87	78	68	88	85	85
6230069	66	68	60	79	79	78
Blank	79	74	68	100	78	75
OPR	62	66	59	85	76	65
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6230066	75	76	67	60	77	87
6230067	86	84	73	65	93	99
6230068	83	83	75	70	91	102
6230069	84	82	68	63	77	91
Blank	77	78	70	67	79	87
OPR	69	73	65	62	76	83
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1237325 6230066-69

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-121-SA5A-SB-2.0-3.0	03.14.11	1202	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-121-SA5A-SB-2.5	03.14.11	1157	SOIL	NONE	4-Encores										X	X											
SL-118-SA5A-SB-2.5-3.5	03.14.11	1033	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-118-SA5A-SB-3.0	03.14.11	1028	SOIL	NONE	5-Encores										X	X	X										
SL-117-SA5A-SB-5.0-6.0	03.14.11	0914	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-117-SA5A-SB-5.5	03.14.11	0910	SOIL	NONE	5-Encores										X	X	X										
SL-001-SA5A-SB-4.0-5.0	03.14.11	1457	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-001-SA5A-SB-4.5	03.14.11	1452	SOIL	NONE	15-Encores										X	X	X										
TB-031411	03.14.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

3/14/11

Relinquished by: (Signature) — Date/Time: 03/14/2011 / 16:00

Received by: (Signature) — Date/Time:

Received for Laboratory by: (Signature) — 3/15/11 930

Airbill No.(s): 8695 1432 5452

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/16/2011
Group Number: 1237535
SDG: DX062
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-137-SA5A-SB-4.0-5.0 Soil	6230976
SL-132-SA5A-SB-2.0-3.0 Soil	6230977
SL-138-SA5A-SB-4.0-5.0 Soil	6230978
EB07-SA5A-031511 Water	6230979

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-137-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SB-4.0-5.0

LLI Sample # SW 6230976
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:19

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6217 SDG#: DX062-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-137-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SB-4.0-5.0

LLI Sample # SW 6230976
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:19

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6217 SDG#: DX062-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0273	J	0.0249	1.16	1
11031	12378-PeCDD	40321-76-4	0.0222	U	0.0222	5.78	1
11031	123478-HxCDD	39227-28-6	0.0220	J	0.0216	5.78	1
11031	123678-HxCDD	57653-85-7	0.0501	JBQ	0.0214	5.78	1
11031	123789-HxCDD	19408-74-3	0.0555	JBQ	0.0222	5.78	1
11031	1234678-HpCDD	35822-46-9	0.632	JB	0.0318	5.78	1
11031	OCDD	3268-87-9	5.19	JB	0.0346	11.6	1
11031	2378-TCDF	51207-31-9	0.0214	U	0.0214	1.16	1
11031	12378-PeCDF	57117-41-6	0.0466	JBQ	0.0124	5.78	1
11031	23478-PeCDF	57117-31-4	0.117	JBQ	0.0128	5.78	1
11031	123478-HxCDF	70648-26-9	0.216	JB	0.0262	5.78	1
11031	123678-HxCDF	57117-44-9	0.0732	JBQ	0.0209	5.78	1
11031	123789-HxCDF	72918-21-9	0.0529	JBQ	0.0215	5.78	1
11031	234678-HxCDF	60851-34-5	0.138	JB	0.0182	5.78	1
11031	1234678-HpCDF	67562-39-4	0.514	JB	0.0179	5.78	1
11031	1234789-HpCDF	55673-89-7	0.0633	JB	0.0201	5.78	1
11031	OCDF	39001-02-0	0.451	JB	0.0314	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SB-4.0-5.0

LLI Sample # SW 6230976
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:19

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6217 SDG#: DX062-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-137-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5A-SB-4.0-5.0

LLI Sample # SW 6230976
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:19

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6217 SDG#: DX062-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 17:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-132-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SB-2.0-3.0

LLI Sample # SW 6230977
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 15:37

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6218 SDG#: DX062-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-132-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SB-2.0-3.0

LLI Sample # SW 6230977
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 15:37

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6218 SDG#: DX062-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0325 JQ	0.0307	1.11	1
11031	12378-PeCDD	40321-76-4	0.0418 JBQ	0.0244	5.56	1
11031	123478-HxCDD	39227-28-6	0.0281 J	0.0268	5.56	1
11031	123678-HxCDD	57653-85-7	0.117 JB	0.0264	5.56	1
11031	123789-HxCDD	19408-74-3	0.109 JBQ	0.0248	5.56	1
11031	1234678-HpCDD	35822-46-9	1.66 JB	0.0318	5.56	1
11031	OCDD	3268-87-9	14.3 B	0.0406	11.1	1
11031	2378-TCDF	51207-31-9	0.0285 U	0.0285	1.11	1
11031	12378-PeCDF	57117-41-6	0.0658 JB	0.0162	5.56	1
11031	23478-PeCDF	57117-31-4	0.145 JB	0.0165	5.56	1
11031	123478-HxCDF	70648-26-9	0.135 JB	0.0289	5.56	1
11031	123678-HxCDF	57117-44-9	0.122 JBQ	0.0229	5.56	1
11031	123789-HxCDF	72918-21-9	0.111 JBQ	0.0238	5.56	1
11031	234678-HxCDF	60851-34-5	0.194 JB	0.0204	5.56	1
11031	1234678-HpCDF	67562-39-4	0.665 JBQ	0.0219	5.56	1
11031	1234789-HpCDF	55673-89-7	0.109 JB	0.0251	5.56	1
11031	OCDF	39001-02-0	0.652 JB	0.0380	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	57	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	62	28 - 130
13C12-1234678-HpCDD	55	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	67	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-132-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SB-2.0-3.0

LLI Sample # SW 6230977
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 15:37

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6218 SDG#: DX062-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-132-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5A-SB-2.0-3.0

LLI Sample # SW 6230977
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 15:37

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6218 SDG#: DX062-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 18:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-138-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SB-4.0-5.0

LLI Sample # SW 6230978
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 14:36

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6219 SDG#: DX062-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SB-4.0-5.0

LLI Sample # SW 6230978
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 14:36

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6219 SDG#: DX062-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0226 JQ	0.0172	1.12	1
11031	12378-PeCDD	40321-76-4	0.0375 JBQ	0.0193	5.62	1
11031	123478-HxCDD	39227-28-6	0.0492 JQ	0.0258	5.62	1
11031	123678-HxCDD	57653-85-7	0.0634 JBQ	0.0232	5.62	1
11031	123789-HxCDD	19408-74-3	0.0604 JB	0.0164	5.62	1
11031	1234678-HpCDD	35822-46-9	1.18 JB	0.0231	5.62	1
11031	OCDD	3268-87-9	13.5 B	0.0322	11.2	1
11031	2378-TCDF	51207-31-9	0.0277 JB	0.0163	1.12	1
11031	12378-PeCDF	57117-41-6	0.0639 JBQ	0.0114	5.62	1
11031	23478-PeCDF	57117-31-4	0.171 JB	0.0137	5.62	1
11031	123478-HxCDF	70648-26-9	0.268 JB	0.0458	5.62	1
11031	123678-HxCDF	57117-44-9	0.173 JB	0.0326	5.62	1
11031	123789-HxCDF	72918-21-9	0.0885 JBQ	0.0173	5.62	1
11031	234678-HxCDF	60851-34-5	0.301 JBQ	0.0171	5.62	1
11031	1234678-HpCDF	67562-39-4	1.30 JB	0.0279	5.62	1
11031	1234789-HpCDF	55673-89-7	0.124 JB	0.0179	5.62	1
11031	OCDF	39001-02-0	0.891 JB	0.0349	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	100	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	62	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	104	24 - 169
13C12-12378-PeCDF	109	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	94	28 - 136
13C12-123789-HxCDF	101	29 - 147
13C12-1234678-HpCDF	46	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SB-4.0-5.0

LLI Sample # SW 6230978
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 14:36

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6219 SDG#: DX062-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-138-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5A-SB-4.0-5.0

LLI Sample # SW 6230978
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 14:36

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6219 SDG#: DX062-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 19:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB07-SA5A-031511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5A-031511

LLI Sample # WW 6230979
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:00

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6220 SDG#: DX062-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.439	JQ	0.396	2.03	1
10915	12378-PeCDD	40321-76-4	0.331	U	0.331	10.1	1
10915	123478-HxCDD	39227-28-6	0.353	U	0.353	10.1	1
10915	123678-HxCDD	57653-85-7	0.373	JBQ	0.338	10.1	1
10915	123789-HxCDD	19408-74-3	0.788	JBQ	0.298	10.1	1
10915	1234678-HpCDD	35822-46-9	3.67	JBQ	0.486	10.1	1
10915	OCDD	3268-87-9	6.72	JB	0.548	20.3	1
10915	2378-TCDF	51207-31-9	0.294	U	0.294	2.03	1
10915	12378-PeCDF	57117-41-6	0.457	JB	0.204	10.1	1
10915	23478-PeCDF	57117-31-4	0.923	JBQ	0.198	10.1	1
10915	123478-HxCDF	70648-26-9	1.52	JB	0.531	10.1	1
10915	123678-HxCDF	57117-44-9	0.793	JB	0.390	10.1	1
10915	123789-HxCDF	72918-21-9	0.269	U	0.269	10.1	1
10915	234678-HxCDF	60851-34-5	1.49	JB	0.228	10.1	1
10915	1234678-HpCDF	67562-39-4	7.92	JB	0.397	10.1	1
10915	1234789-HpCDF	55673-89-7	0.809	JBQ	0.297	10.1	1
10915	OCDF	39001-02-0	4.26	JB	0.825	20.3	1

The recoveries of several labeled compounds were outside QC limits in this sample and the associated method blank and OPR. Insufficient sample was available to re-extract the sample.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	47	25 - 164
13C12-12378-PeCDD	44	25 - 181
13C12-123478-HxCDD	33	32 - 141
13C12-123678-HxCDD	36	28 - 130
13C12-123789-HxCDD	39	28 - 130
13C12-1234678-HpCDD	30	23 - 140
13C12-OCDD	25	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	50	24 - 185
13C12-23478-PeCDF	49	21 - 178
13C12-123478-HxCDF	20	26 - 152
13C12-123678-HxCDF	27	26 - 123
13C12-234678-HxCDF	44	28 - 136
13C12-123789-HxCDF	42	29 - 147
13C12-1234678-HpCDF	20	28 - 143
13C12-1234789-HpCDF	30	26 - 138
13C12-OCDF	20	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB07-SA5A-031511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5A-031511

LLI Sample # WW 6230979
LLI Group # 1237535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2011 10:00

Submitted: 03/16/2011 10:00
Reported: 04/12/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6220 SDG#: DX062-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077002	04/04/2011 16:08	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11077002	03/20/2011 07:30	Deborah M Zimmerman	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237535
Reported: 04/12/11 at 05:25 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11095162401A	Sample number(s): 6230976-6230978									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11077002	Sample number(s): 6230979									
2378-TCDD	0.193	U	0.193	2.00	pg/l	89		67-158		
12378-PeCDD	0.676	J	0.193	10.0	pg/l	92		70-142		
123478-HxCDD	0.907	J	0.411	10.0	pg/l	93		70-164		
123678-HxCDD	0.786	J	0.367	10.0	pg/l	94		76-134		
123789-HxCDD	0.545	J	0.173	10.0	pg/l	94		64-162		
1234678-HpCDD	2.65	J	0.335	10.0	pg/l	92		70-140		
OCDD	5.10	J	0.311	20.0	pg/l	97		78-144		
2378-TCDF	0.214	J	0.168	2.00	pg/l	91		75-158		
12378-PeCDF	0.499	J	0.128	10.0	pg/l	92		80-134		
23478-PeCDF	1.33	J	0.164	10.0	pg/l	100		68-160		
123478-HxCDF	2.83	J	0.621	10.0	pg/l	91		72-134		
123678-HxCDF	1.96	J	0.488	10.0	pg/l	91		84-130		
123789-HxCDF	0.986	J	0.138	10.0	pg/l	91		78-130		
234678-HxCDF	1.32	J	0.151	10.0	pg/l	93		70-156		
1234678-HpCDF	11.0		0.445	10.0	pg/l	96		82-122		
1234789-HpCDF	1.20	J	0.167	10.0	pg/l	93		78-138		
OCDF	4.29	J	0.513	20.0	pg/l	95		63-170		
Batch number: 11090001	Sample number(s): 6230976-6230978									
2378-TCDD	0.0299	U	0.0299	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0588	J	0.0279	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0229	U	0.0229	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0329	J	0.0229	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0392	J	0.0224	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.351	J	0.0348	5.00	ng/kg	90		70-140		
OCDD	0.634	J	0.0353	10.0	ng/kg	91		78-144		
2378-TCDF	0.0440	J	0.0269	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0506	J	0.0165	5.00	ng/kg	92		80-134		
23478-PeCDF	0.169	J	0.0160	5.00	ng/kg	92		68-160		
123478-HxCDF	0.135	J	0.0277	5.00	ng/kg	93		72-134		
123678-HxCDF	0.119	J	0.0219	5.00	ng/kg	94		84-130		
123789-HxCDF	0.116	J	0.0240	5.00	ng/kg	93		78-130		
234678-HxCDF	0.255	J	0.0209	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.742	J	0.0173	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.112	J	0.0206	5.00	ng/kg	91		78-138		
OCDF	0.496	J	0.0336	10.0	ng/kg	93		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237535
Reported: 04/12/11 at 05:25 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11095162401A	Sample number(s): 6230976-6230978					BKG: P230973			
Moisture Content by 160.3						11.1	11.1	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11077002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6230979	47	49	20*	27	44	42
Blank	71	54	16*	20*	62	76
OPR	85	48	14*	19*	68	84
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6230979	20*	30	20	83	44	33
Blank	16*	47	26	77	63	28*
OPR	15*	50	25	62	80	28*
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6230979	36	39	30	25	59	50
Blank	33	67	39	35	80	74
OPR	35	78	42	38	90	102
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11090001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6230976	78	85	61	78	86	80
6230977	60	66	47	59	66	62
6230978	100	82	38	53	94	101
Blank	77	82	66	81	83	82
OPR	73	73	49	65	76	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237535
Reported: 04/12/11 at 05:25 PM

Surrogate Quality Control

(CRS)

6230976	72	71	62	89	79	72
6230977	57	54	47	67	64	57
6230978	46	77	55	92	93	62
Blank	79	74	68	100	78	75
OPR	62	66	59	85	76	65
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6230976	74	73	69	62	88	94
6230977	61	62	55	50	67	74
6230978	72	94	70	64	104	109
Blank	77	78	70	67	79	87
OPR	69	73	65	62	76	83
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1237535 Sample# 6230976-79

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $ -	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-137-SA5A-SB-4.0-5.0	03.15.11	1019	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-137-SA5A-SB-4.5	03.15.11	1015	SOIL	NONE	5-Encores										X	X	X										
SL-132-SA5A-SB-2.0-3.0	03.15.11	1537	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-132-SA5A-SB-2.5	03.15.11	1533	SOIL	NONE	5-Encores										X	X	X										
SL-138-SA5A-SB-4.0-5.0	03.15.11	1436	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-138-SA5A-SB-4.5	03.15.11	1432	SOIL	NONE	5-Encores										X	X	X										
EB07-SA5A-031511	03.15.11	1000	WATER	NONE	9-1L amber bottles			X	X	X								X			X	X		X			1 extra liter for backup
EB07-SA5A-031511	03.15.11	1000	WATER	HCl	11-40mL VOA vials										X	X	X									X	
EB07-SA5A-031511	03.15.11	1000	WATER	NONE	4-40mL VOA vials														X						X		
EB07-SA5A-031511	03.15.11	1000	WATER	NONE	1-500mL poly		X				X	X	X														
EB07-SA5A-031511	03.15.11	1000	WATER	HNO3	1-500mL poly	X																					
EB07-SA5A-031511	03.15.11	1000	WATER	NONE	1-250mL glass															X							
EB07-SA5A-031511	03.15.11	1000	WATER	NaOH	1-500mL poly																		X				
TB-031511	03.15.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/15/2011 / 17:00 — Received for Laboratory by: (*Signature*) Craig Bidard 3/16/11 1000

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8695 1432 5441, ...5463

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/17/2011
Group Number: 1237757
SDG: DX063
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-146-SA5A-SB-3.0-4.0 Soil	6232233
SL-128-SA5A-SB-4.0-5.0 Soil	6232234
SL-128-SA5A-SB-9.0-10.0 Soil	6232235
SL-133-SA5A-SB-4.0-5.0 Soil	6232236

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-146-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SB-3.0-4.0

LLI Sample # SW 6232233
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 10:16

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6301 SDG#: DX063-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-146-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SB-3.0-4.0

LLI Sample # SW 6232233
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 10:16

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Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6301 SDG#: DX063-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0409	JBQ	0.0160	1.15	1
11031	12378-PeCDD	40321-76-4	0.108	JB	0.0190	5.75	1
11031	123478-HxCDD	39227-28-6	0.192	JB	0.0510	5.75	1
11031	123678-HxCDD	57653-85-7	0.564	JB	0.0521	5.75	1
11031	123789-HxCDD	19408-74-3	0.321	JB	0.0483	5.75	1
11031	1234678-HpCDD	35822-46-9	14.9	B	0.0620	5.75	1
11031	OCDD	3268-87-9	296	B	0.0858	11.5	1
11031	2378-TCDF	51207-31-9	0.0194	JB	0.0128	1.15	1
11031	12378-PeCDF	57117-41-6	0.0718	JB	0.00909	5.75	1
11031	23478-PeCDF	57117-31-4	0.184	JB	0.00875	5.75	1
11031	123478-HxCDF	70648-26-9	0.386	JB	0.0384	5.75	1
11031	123678-HxCDF	57117-44-9	0.224	JB	0.0360	5.75	1
11031	123789-HxCDF	72918-21-9	0.217	JB	0.0409	5.75	1
11031	234678-HxCDF	60851-34-5	0.364	JB	0.0361	5.75	1
11031	1234678-HpCDF	67562-39-4	4.97	JB	0.0245	5.75	1
11031	1234789-HpCDF	55673-89-7	0.424	JB	0.0354	5.75	1
11031	OCDF	39001-02-0	8.66	JB	0.0358	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-146-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SB-3.0-4.0

LLI Sample # SW 6232233
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 10:16

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6301 SDG#: DX063-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-146-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5A-SB-3.0-4.0

LLI Sample # SW 6232233
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 10:16

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6301 SDG#: DX063-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/05/2011 18:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-128-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-4.0-5.0

LLI Sample # SW 6232234
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:49

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6302 SDG#: DX063-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-128-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-4.0-5.0

LLI Sample # SW 6232234
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:49

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6302 SDG#: DX063-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0258 JBQ	0.0115	1.12	1
11031	12378-PeCDD	40321-76-4	0.137 JB	0.0222	5.62	1
11031	123478-HxCDD	39227-28-6	0.0500 JBQ	0.0312	5.62	1
11031	123678-HxCDD	57653-85-7	0.352 JB	0.0327	5.62	1
11031	123789-HxCDD	19408-74-3	0.239 JB	0.0299	5.62	1
11031	1234678-HpCDD	35822-46-9	10.2 B	0.0388	5.62	1
11031	OCDD	3268-87-9	172 B	0.0429	11.2	1
11031	2378-TCDF	51207-31-9	0.0569 JB	0.0292	1.12	1
11031	12378-PeCDF	57117-41-6	0.543 JB	0.0191	5.62	1
11031	23478-PeCDF	57117-31-4	0.246 JB	0.0173	5.62	1
11031	123478-HxCDF	70648-26-9	0.267 JB	0.0266	5.62	1
11031	123678-HxCDF	57117-44-9	0.171 JB	0.0254	5.62	1
11031	123789-HxCDF	72918-21-9	0.179 JB	0.0260	5.62	1
11031	234678-HxCDF	60851-34-5	0.232 JB	0.0237	5.62	1
11031	1234678-HpCDF	67562-39-4	2.60 JB	0.0194	5.62	1
11031	1234789-HpCDF	55673-89-7	0.192 JB	0.0213	5.62	1
11031	OCDF	39001-02-0	5.87 JB	0.0243	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-128-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-4.0-5.0

LLI Sample # SW 6232234
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:49

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6302 SDG#: DX063-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-128-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-4.0-5.0

LLI Sample # SW 6232234
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:49

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6302 SDG#: DX063-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/05/2011 19:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-128-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-9.0-10.0

LLI Sample # SW 6232235
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:58

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6303 SDG#: DX063-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-128-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-9.0-10.0

LLI Sample # SW 6232235
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:58

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6303 SDG#: DX063-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0140	U	0.0140	1.06	1
11031	12378-PeCDD	40321-76-4	0.0726	JBQ	0.0196	5.29	1
11031	123478-HxCDD	39227-28-6	0.0276	JBQ	0.0249	5.29	1
11031	123678-HxCDD	57653-85-7	0.153	JB	0.0258	5.29	1
11031	123789-HxCDD	19408-74-3	0.163	JBQ	0.0248	5.29	1
11031	1234678-HpCDD	35822-46-9	3.12	JB	0.0374	5.29	1
11031	OCDD	3268-87-9	43.0	B	0.0424	10.6	1
11031	2378-TCDF	51207-31-9	0.0299	JB	0.0243	1.06	1
11031	12378-PeCDF	57117-41-6	0.736	JB	0.0183	5.29	1
11031	23478-PeCDF	57117-31-4	0.287	JB	0.0171	5.29	1
11031	123478-HxCDF	70648-26-9	0.179	JB	0.0236	5.29	1
11031	123678-HxCDF	57117-44-9	0.139	JB	0.0221	5.29	1
11031	123789-HxCDF	72918-21-9	0.138	JBQ	0.0255	5.29	1
11031	234678-HxCDF	60851-34-5	0.177	JB	0.0225	5.29	1
11031	1234678-HpCDF	67562-39-4	1.11	JB	0.0210	5.29	1
11031	1234789-HpCDF	55673-89-7	0.100	JBQ	0.0253	5.29	1
11031	OCDF	39001-02-0	2.24	JB	0.0309	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-128-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-9.0-10.0

LLI Sample # SW 6232235
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:58

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6303 SDG#: DX063-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-128-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5A-SB-9.0-10.0

LLI Sample # SW 6232235
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 12:58

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6303 SDG#: DX063-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/05/2011 20:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SB-4.0-5.0

LLI Sample # SW 6232236
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 15:18

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6304 SDG#: DX063-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SB-4.0-5.0

LLI Sample # SW 6232236
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 15:18

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6304 SDG#: DX063-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0182	JBQ	0.0133	1.13	1
11031	12378-PeCDD	40321-76-4	0.0800	JB	0.0194	5.63	1
11031	123478-HxCDD	39227-28-6	0.0438	JBQ	0.0270	5.63	1
11031	123678-HxCDD	57653-85-7	0.196	JB	0.0280	5.63	1
11031	123789-HxCDD	19408-74-3	0.259	JB	0.0275	5.63	1
11031	1234678-HpCDD	35822-46-9	5.85	B	0.0341	5.63	1
11031	OCDD	3268-87-9	88.2	B	0.0354	11.3	1
11031	2378-TCDF	51207-31-9	0.0218	U	0.0218	1.13	1
11031	12378-PeCDF	57117-41-6	0.208	JB	0.0117	5.63	1
11031	23478-PeCDF	57117-31-4	0.312	JB	0.0109	5.63	1
11031	123478-HxCDF	70648-26-9	0.151	JB	0.0241	5.63	1
11031	123678-HxCDF	57117-44-9	0.119	JB	0.0224	5.63	1
11031	123789-HxCDF	72918-21-9	0.148	JBQ	0.0252	5.63	1
11031	234678-HxCDF	60851-34-5	0.208	JBQ	0.0235	5.63	1
11031	1234678-HpCDF	67562-39-4	1.37	JB	0.0206	5.63	1
11031	1234789-HpCDF	55673-89-7	0.103	JB	0.0239	5.63	1
11031	OCDF	39001-02-0	3.34	JB	0.0242	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-133-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SB-4.0-5.0

LLI Sample # SW 6232236
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 15:18

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6304 SDG#: DX063-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5A-SB-4.0-5.0

LLI Sample # SW 6232236
LLI Group # 1237757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/16/2011 15:18

Submitted: 03/17/2011 09:35
Reported: 04/14/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6304 SDG#: DX063-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/05/2011 21:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237757
Reported: 04/14/11 at 02:35 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11095162401A	Sample number(s): 6232233-6232236								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11091001	Sample number(s): 6232233-6232236								
2378-TCDD	0.0208 J	0.0105	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0298 J	0.0107	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0182 J	0.0110	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0403 J	0.0114	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0388 J	0.0113	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.310 J	0.0181	5.00	ng/kg	95		70-140		
OCDD	0.510 J	0.0191	10.0	ng/kg	94		78-144		
2378-TCDF	0.0115 J	0.00910	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0287 J	0.00540	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0800 J	0.00560	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0878 J	0.0138	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0723 J	0.0124	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0760 J	0.0171	5.00	ng/kg	91		78-130		
234678-HxCDF	0.170 J	0.0137	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.442 J	0.0102	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0789 J	0.0158	5.00	ng/kg	92		78-138		
OCDF	0.345 J	0.0201	10.0	ng/kg	90		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11095162401A	Sample number(s): 6232233-6232236					BKG: P230973			
Moisture Content by 160.3						11.1	11.1	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237757
Reported: 04/14/11 at 02:35 PM

Surrogate Quality Control

Batch number: 11091001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6232233	64	71	67	70	67	66
6232234	82	92	84	87	88	86
6232235	76	88	81	83	80	78
6232236	82	89	83	86	84	84
Blank	79	92	90	96	88	78
OPR	75	82	80	85	81	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6232233	69	55	46	76	68	66
6232234	83	80	70	96	87	84
6232235	83	76	70	88	84	79
6232236	84	80	71	93	88	81
Blank	104	75	65	109	93	90
OPR	91	73	68	92	80	81
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6232233	67	67	64	58	67	72
6232234	84	85	80	70	88	92
6232235	81	78	77	71	82	88
6232236	86	83	79	71	84	92
Blank	95	90	91	85	84	99
OPR	81	81	80	76	78	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cyp# 1231757 Sample# 62332333-36

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-146-SA5A-SB-3.0-4.0	03.16.11	1016	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Amended COC.
SL-146-SA5A-SB-3.5	03.16.11	1011	SOIL	NONE	5-Encores										X	X	X										
SL-128-SA5A-SB-4.0-5.0	03.16.11	1249	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-128-SA5A-SB-4.5	03.16.11	1245	SOIL	NONE	5-Encores										X	X	X										
SL-128-SA5A-SB-9.0-10.0	03.16.11	1258	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-128-SA5A-SB-9.5	03.16.11	1253	SOIL	NONE	5-Encores										X	X	X										
SL-133-SA5A-SB-4.0-5.0	03.16.11	1518	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-133-SA5A-SB-4.5	03.16.11	1513	SOIL	NONE	5-Encores										X	X	X										
~~SL-134-SA5A-SB-2.5-3.5~~	~~03.16.11~~	~~1608~~	~~SOIL~~	~~NONE~~	~~4-16 oz jars~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
~~SL-134-SA5A-SB-3.0~~	~~03.16.11~~	~~1603~~	~~SOIL~~	~~NONE~~	~~5-Encores~~										~~X~~	~~X~~	~~X~~										
TB-031611	03.16.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	03/16/2011 / 17:00	Mary Hedrick LLI 3/17/11 935	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8695 1432 5474	

acct# 13013 Cap# 1237757 sample# 6232233-36

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tarphanyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-146-SA5A-SB-3.0-4.0	03.16.11	1016	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-146-SA5A-SB-3.5	03.16.11	1011	SOIL	NONE	5-Encores										X	X	X										
SL-128-SA5A-SB-4.0-5.0	03.16.11	1249	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-128-SA5A-SB-4.5	03.16.11	1245	SOIL	NONE	5-Encores										X	X	X										
SL-128-SA5A-SB-9.0-10.0	03.16.11	1258	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-128-SA5A-SB-9.5	03.16.11	1253	SOIL	NONE	5-Encores										X	X	X										
SL-133-SA5A-SB-4.0-5.0	03.16.11	1518	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-133-SA5A-SB-4.5	03.16.11	1513	SOIL	NONE	5-Encores										X	X	X										
SL-134-SA5A-SB-2.5-3.5	03.16.11	1608	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-134-SA5A-SB-3.0	03.16.11	1603	SOIL	NONE	5-Encores										X	X	X										
TB-031611	03.16.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 03/16/2011 / 17:00

Received for Laboratory by: (Signature) — Mary Yerlach LLI 3/17/11 — 935

Received by: (Signature) — Date/Time:

Airbill No.(s): 8695 1432 5474

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/18/2011
Group Number: 1237987
SDG: DX063
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-136-SA5A-SB-4.0-5.0 Soil	6233381
SL-139-SA5A-SB-2.5-3.5 Soil	6233382
SL-158-SA5A-SB-4.0-5.0 Soil	6233383

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-136-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SB-4.0-5.0

LLI Sample # SW 6233381
LLI Group # 1237987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 11:35

Submitted: 03/18/2011 09:40
Reported: 04/14/2011 14:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6305 SDG#: DX063-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-136-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SB-4.0-5.0

LLI Sample # SW 6233381
LLI Group # 1237987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 11:35

Submitted: 03/18/2011 09:40
Reported: 04/14/2011 14:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6305 SDG#: DX063-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0132 U	0.0132	1.06	1
11031	12378-PeCDD	40321-76-4	0.0193 JB	0.0141	5.31	1
11031	123478-HxCDD	39227-28-6	0.0154 JB	0.0153	5.31	1
11031	123678-HxCDD	57653-85-7	0.0286 JB	0.0156	5.31	1
11031	123789-HxCDD	19408-74-3	0.0280 JBQ	0.0142	5.31	1
11031	1234678-HpCDD	35822-46-9	0.389 JB	0.0258	5.31	1
11031	OCDD	3268-87-9	2.57 JB	0.0354	10.6	1
11031	2378-TCDF	51207-31-9	0.0109 JB	0.0109	1.06	1
11031	12378-PeCDF	57117-41-6	0.0135 JB	0.00764	5.31	1
11031	23478-PeCDF	57117-31-4	0.0830 JBQ	0.00711	5.31	1
11031	123478-HxCDF	70648-26-9	0.0496 JBQ	0.0127	5.31	1
11031	123678-HxCDF	57117-44-9	0.0608 JB	0.0113	5.31	1
11031	123789-HxCDF	72918-21-9	0.0595 JBQ	0.0116	5.31	1
11031	234678-HxCDF	60851-34-5	0.129 JB	0.00998	5.31	1
11031	1234678-HpCDF	67562-39-4	0.373 JBQ	0.0157	5.31	1
11031	1234789-HpCDF	55673-89-7	0.0585 JB	0.0203	5.31	1
11031	OCDF	39001-02-0	0.305 JB	0.0309	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-136-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SB-4.0-5.0

LLI Sample # SW 6233381
LLI Group # 1237987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 11:35

Submitted: 03/18/2011 09:40
Reported: 04/14/2011 14:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6305 SDG#: DX063-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-136-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5A-SB-4.0-5.0

LLI Sample # SW 6233381
LLI Group # 1237987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 11:35

Submitted: 03/18/2011 09:40
Reported: 04/14/2011 14:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6305 SDG#: DX063-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/05/2011 22:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-139-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5A-SB-2.5-3.5

LLI Sample # SW 6233382
LLI Group # 1237987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:58

Submitted: 03/18/2011 09:40
Reported: 04/14/2011 14:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6306 SDG#: DX063-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5A-SB-2.5-3.5

LLI Sample # SW 6233382
LLI Group # 1237987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:58

Submitted: 03/18/2011 09:40
Reported: 04/14/2011 14:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6306 SDG#: DX063-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0166 U	0.0166	1.09	1
11031	12378-PeCDD	40321-76-4	0.0243 JBQ	0.0195	5.46	1
11031	123478-HxCDD	39227-28-6	0.0146 U	0.0146	5.46	1
11031	123678-HxCDD	57653-85-7	0.0654 JBQ	0.0150	5.46	1
11031	123789-HxCDD	19408-74-3	0.0594 JBQ	0.0141	5.46	1
11031	1234678-HpCDD	35822-46-9	0.691 JB	0.0319	5.46	1
11031	OCDD	3268-87-9	5.32 JB	0.0450	10.9	1
11031	2378-TCDF	51207-31-9	0.0128 U	0.0128	1.09	1
11031	12378-PeCDF	57117-41-6	0.0219 JBQ	0.00852	5.46	1
11031	23478-PeCDF	57117-31-4	0.0774 JBQ	0.00809	5.46	1
11031	123478-HxCDF	70648-26-9	0.0132 U	0.0132	5.46	1
11031	123678-HxCDF	57117-44-9	0.0627 JB	0.0121	5.46	1
11031	123789-HxCDF	72918-21-9	0.0467 JBQ	0.0150	5.46	1
11031	234678-HxCDF	60851-34-5	0.141 JB	0.0122	5.46	1
11031	1234678-HpCDF	67562-39-4	0.424 JB	0.0144	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0743 JBQ	0.0220	5.46	1
11031	OCDF	39001-02-0	0.367 JB	0.0303	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5A-SB-2.5-3.5

LLI Sample # SW 6233382
LLI Group # 1237987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:58

Submitted: 03/18/2011 09:40
Reported: 04/14/2011 14:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6306 SDG#: DX063-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-139-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5A-SB-2.5-3.5

LLI Sample # SW 6233382
LLI Group # 1237987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 08:58

Submitted: 03/18/2011 09:40
Reported: 04/14/2011 14:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6306 SDG#: DX063-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/05/2011 23:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-158-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5A-SB-4.0-5.0

LLI Sample # SW 6233383
LLI Group # 1237987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 15:40

Submitted: 03/18/2011 09:40
Reported: 04/14/2011 14:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6307 SDG#: DX063-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-158-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5A-SB-4.0-5.0

LLI Sample # SW 6233383
LLI Group # 1237987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 15:40

Submitted: 03/18/2011 09:40
Reported: 04/14/2011 14:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6307 SDG#: DX063-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.00909 U	0.00909	1.12	1
11031	12378-PeCDD	40321-76-4	0.0158 JBQ	0.0108	5.61	1
11031	123478-HxCDD	39227-28-6	0.0154 U	0.0154	5.61	1
11031	123678-HxCDD	57653-85-7	0.0745 JB	0.0158	5.61	1
11031	123789-HxCDD	19408-74-3	0.0522 JB	0.0148	5.61	1
11031	1234678-HpCDD	35822-46-9	2.96 JB	0.0305	5.61	1
11031	OCDD	3268-87-9	48.7 B	0.0267	11.2	1
11031	2378-TCDF	51207-31-9	0.0185 JB	0.00797	1.12	1
11031	12378-PeCDF	57117-41-6	0.0206 JB	0.00561	5.61	1
11031	23478-PeCDF	57117-31-4	0.0914 JB	0.00527	5.61	1
11031	123478-HxCDF	70648-26-9	0.0700 JB	0.0125	5.61	1
11031	123678-HxCDF	57117-44-9	0.0705 JB	0.0116	5.61	1
11031	123789-HxCDF	72918-21-9	0.0457 JB	0.0134	5.61	1
11031	234678-HxCDF	60851-34-5	0.143 JB	0.0114	5.61	1
11031	1234678-HpCDF	67562-39-4	0.702 JB	0.0137	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0718 JBQ	0.0184	5.61	1
11031	OCDF	39001-02-0	1.58 JB	0.0192	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-158-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5A-SB-4.0-5.0

LLI Sample # SW 6233383
LLI Group # 1237987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 15:40

Submitted: 03/18/2011 09:40
Reported: 04/14/2011 14:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6307 SDG#: DX063-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-158-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5A-SB-4.0-5.0

LLI Sample # SW 6233383
LLI Group # 1237987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/17/2011 15:40

Submitted: 03/18/2011 09:40
Reported: 04/14/2011 14:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6307 SDG#: DX063-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/06/2011 00:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401A	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237987
Reported: 04/14/11 at 02:40 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11095162401A	Sample number(s): 6233381-6233383								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11091001	Sample number(s): 6233381-6233383								
2378-TCDD	0.0208 J	0.0105	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0298 J	0.0107	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0182 J	0.0110	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0403 J	0.0114	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0388 J	0.0113	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.310 J	0.0181	5.00	ng/kg	95		70-140		
OCDD	0.510 J	0.0191	10.0	ng/kg	94		78-144		
2378-TCDF	0.0115 J	0.00910	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0287 J	0.00540	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0800 J	0.00560	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0878 J	0.0138	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0723 J	0.0124	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0760 J	0.0171	5.00	ng/kg	91		78-130		
234678-HxCDF	0.170 J	0.0137	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.442 J	0.0102	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0789 J	0.0158	5.00	ng/kg	92		78-138		
OCDF	0.345 J	0.0201	10.0	ng/kg	90		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11095162401A	Sample number(s): 6233381-6233383					BKG: P230973			
Moisture Content by 160.3						11.1	11.1	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237987
Reported: 04/14/11 at 02:40 PM

Surrogate Quality Control

Batch number: 11091001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6233381	75	83	62	71	76	70
6233382	74	86	77	84	80	72
6233383	81	88	78	86	82	78
Blank	79	92	90	96	88	78
OPR	75	82	80	85	81	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6233381	72	63	52	82	80	72
6233382	88	65	56	90	82	79
6233383	87	73	66	93	85	82
Blank	104	75	65	109	93	90
OPR	91	73	68	92	80	81
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6233381	74	76	72	66	78	84
6233382	81	80	78	71	79	86
6233383	84	83	81	75	84	90
Blank	95	90	91	85	84	99
OPR	81	81	80	76	78	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1237987 sample# 6233381-83

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-136-SA5A-SB-4.0-5.0	03.17.11	1135	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X														
SL-136-SA5A-SB-4.5	03.17.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-139-SA5A-SB-2.5-3.5	03.17.11	0858	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-139-SA5A-SB-3.0	03.17.11	0852	SOIL	NONE	5-Encores										X	X	X										
SL-158-SA5A-SB-4.0-5.0	03.17.11	1540	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-158-SA5A-SB-4.5	03.17.11	1536	SOIL	NONE	5-Encores										X	X	X										
TB-031711	03.17.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/17/2011 / 17:00

Received for Laboratory by: (*Signature*) LLI 3/18/11 940

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8695 1482 5485

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/19/2011
Group Number: 1238152
SDG: DX063
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-159-SA5A-SB-4.0-5.0 Soil	6234526
SL-169-SA5A-SB-4.0-5.0 Soil	6234527
SL-168-SA5A-SB-4.0-5.0 Soil	6234528
SL-160-SA5A-SB-4.0-5.0 Soil	6234529
SL-160-SA5A-SB-9.0-10.0 Soil	6234530

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-159-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5A-SB-4.0-5.0

LLI Sample # SW 6234526
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 09:24

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6308 SDG#: DX063-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5A-SB-4.0-5.0

LLI Sample # SW 6234526
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Collected: 03/18/2011 09:24

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6308 SDG#: DX063-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0157 JBQ	0.0121	1.09	1
11031	12378-PeCDD	40321-76-4	0.0482 JBQ	0.0114	5.45	1
11031	123478-HxCDD	39227-28-6	0.0282 JBQ	0.0105	5.45	1
11031	123678-HxCDD	57653-85-7	0.0514 JB	0.0108	5.45	1
11031	123789-HxCDD	19408-74-3	0.0624 JBQ	0.0101	5.45	1
11031	1234678-HpCDD	35822-46-9	0.289 JB	0.0134	5.45	1
11031	OCDD	3268-87-9	0.725 JB	0.0244	10.9	1
11031	2378-TCDF	51207-31-9	0.0271 JB	0.00828	1.09	1
11031	12378-PeCDF	57117-41-6	0.0766 JB	0.00577	5.45	1
11031	23478-PeCDF	57117-31-4	0.115 JB	0.00556	5.45	1
11031	123478-HxCDF	70648-26-9	0.0841 JB	0.0125	5.45	1
11031	123678-HxCDF	57117-44-9	0.0856 JB	0.0109	5.45	1
11031	123789-HxCDF	72918-21-9	0.0670 JB	0.0123	5.45	1
11031	234678-HxCDF	60851-34-5	0.147 JB	0.0110	5.45	1
11031	1234678-HpCDF	67562-39-4	0.419 JB	0.00926	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0525 JB	0.0133	5.45	1
11031	OCDF	39001-02-0	0.289 JB	0.0179	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-159-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5A-SB-4.0-5.0

LLI Sample # SW 6234526
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 09:24

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6308 SDG#: DX063-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-159-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5A-SB-4.0-5.0

LLI Sample # SW 6234526
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 09:24

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6308 SDG#: DX063-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/06/2011 01:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-169-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA5A-SB-4.0-5.0

LLI Sample # SW 6234527
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 10:47

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6309 SDG#: DX063-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-169-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA5A-SB-4.0-5.0

LLI Sample # SW 6234527
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 10:47

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6309 SDG#: DX063-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0369 JBQ	0.0108	1.16	1
11031	12378-PeCDD	40321-76-4	0.158 JB	0.0136	5.80	1
11031	123478-HxCDD	39227-28-6	0.0828 JB	0.0183	5.80	1
11031	123678-HxCDD	57653-85-7	0.114 JB	0.0191	5.80	1
11031	123789-HxCDD	19408-74-3	0.122 JB	0.0184	5.80	1
11031	1234678-HpCDD	35822-46-9	0.359 JB	0.0224	5.80	1
11031	OCDD	3268-87-9	1.18 JB	0.0205	11.6	1
11031	2378-TCDF	51207-31-9	0.0353 JBQ	0.00916	1.16	1
11031	12378-PeCDF	57117-41-6	0.137 JB	0.00650	5.80	1
11031	23478-PeCDF	57117-31-4	0.193 JB	0.00673	5.80	1
11031	123478-HxCDF	70648-26-9	0.130 JB	0.0167	5.80	1
11031	123678-HxCDF	57117-44-9	0.136 JB	0.0144	5.80	1
11031	123789-HxCDF	72918-21-9	0.112 JB	0.0177	5.80	1
11031	234678-HxCDF	60851-34-5	0.190 JB	0.0153	5.80	1
11031	1234678-HpCDF	67562-39-4	0.404 JB	0.0125	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0968 JBQ	0.0182	5.80	1
11031	OCDF	39001-02-0	0.357 JB	0.0232	11.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	98	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-169-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA5A-SB-4.0-5.0

LLI Sample # SW 6234527
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 10:47

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6309 SDG#: DX063-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-169-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA5A-SB-4.0-5.0

LLI Sample # SW 6234527
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 10:47

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6309 SDG#: DX063-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/06/2011 05:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-168-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234528
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6310 SDG#: DX063-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-168-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234528
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6310 SDG#: DX063-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0132	U	0.0132	1.12	1
11031	12378-PeCDD	40321-76-4	0.0135	U	0.0135	5.61	1
11031	123478-HxCDD	39227-28-6	0.0202	U	0.0202	5.61	1
11031	123678-HxCDD	57653-85-7	0.0811	JBQ	0.0210	5.61	1
11031	123789-HxCDD	19408-74-3	0.0593	JBQ	0.0198	5.61	1
11031	1234678-HpCDD	35822-46-9	9.31	B	0.0576	5.61	1
11031	OCDD	3268-87-9	138	B	0.0419	11.2	1
11031	2378-TCDF	51207-31-9	0.0103	JB	0.00875	1.12	1
11031	12378-PeCDF	57117-41-6	0.00629	U	0.00629	5.61	1
11031	23478-PeCDF	57117-31-4	0.0885	JBQ	0.00606	5.61	1
11031	123478-HxCDF	70648-26-9	0.0639	JB	0.0143	5.61	1
11031	123678-HxCDF	57117-44-9	0.0653	JBQ	0.0138	5.61	1
11031	123789-HxCDF	72918-21-9	0.0611	JBQ	0.0152	5.61	1
11031	234678-HxCDF	60851-34-5	0.144	JB	0.0137	5.61	1
11031	1234678-HpCDF	67562-39-4	0.546	JB	0.0239	5.61	1
11031	1234789-HpCDF	55673-89-7	0.102	JBQ	0.0329	5.61	1
11031	OCDF	39001-02-0	0.542	JB	0.0205	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-168-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234528
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6310 SDG#: DX063-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-168-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5A-SB-4.0-5.0

LLI Sample # SW 6234528
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 12:49

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6310 SDG#: DX063-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/06/2011 06:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-4.0-5.0

LLI Sample # SW 6234529
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:14

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6311 SDG#: DX063-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-160-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-4.0-5.0

LLI Sample # SW 6234529
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:14

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6311 SDG#: DX063-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0148	U	0.0148	1.13	1
11031	12378-PeCDD	40321-76-4	0.0162	U	0.0162	5.66	1
11031	123478-HxCDD	39227-28-6	0.0140	U	0.0140	5.66	1
11031	123678-HxCDD	57653-85-7	0.0332	JBQ	0.0147	5.66	1
11031	123789-HxCDD	19408-74-3	0.0912	JBQ	0.0139	5.66	1
11031	1234678-HpCDD	35822-46-9	0.188	JB	0.0170	5.66	1
11031	OCDD	3268-87-9	0.565	JB	0.0250	11.3	1
11031	2378-TCDF	51207-31-9	0.0118	U	0.0118	1.13	1
11031	12378-PeCDF	57117-41-6	0.0178	JBQ	0.00680	5.66	1
11031	23478-PeCDF	57117-31-4	0.0467	JBQ	0.00668	5.66	1
11031	123478-HxCDF	70648-26-9	0.0249	JBQ	0.00872	5.66	1
11031	123678-HxCDF	57117-44-9	0.0214	JBQ	0.00781	5.66	1
11031	123789-HxCDF	72918-21-9	0.0622	JBQ	0.00974	5.66	1
11031	234678-HxCDF	60851-34-5	0.0514	JB	0.00804	5.66	1
11031	1234678-HpCDF	67562-39-4	0.128	JB	0.0105	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0344	JBQ	0.0171	5.66	1
11031	OCDF	39001-02-0	0.111	JBQ	0.0227	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-160-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-4.0-5.0

LLI Sample # SW 6234529
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:14

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6311 SDG#: DX063-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-4.0-5.0

LLI Sample # SW 6234529
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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6311 SDG#: DX063-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/06/2011 07:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-9.0-10.0

LLI Sample # SW 6234530
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:24

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6312 SDG#: DX063-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-9.0-10.0

LLI Sample # SW 6234530
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:24

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6312 SDG#: DX063-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0292	JBQ	0.0149	1.08	1
11031	12378-PeCDD	40321-76-4	0.0138	U	0.0138	5.38	1
11031	123478-HxCDD	39227-28-6	0.0129	U	0.0129	5.38	1
11031	123678-HxCDD	57653-85-7	0.0303	JBQ	0.0131	5.38	1
11031	123789-HxCDD	19408-74-3	0.0301	JBQ	0.0127	5.38	1
11031	1234678-HpCDD	35822-46-9	0.416	JB	0.0224	5.38	1
11031	OCDD	3268-87-9	3.22	JB	0.0310	10.8	1
11031	2378-TCDF	51207-31-9	0.0111	U	0.0111	1.08	1
11031	12378-PeCDF	57117-41-6	0.00982	JBQ	0.00613	5.38	1
11031	23478-PeCDF	57117-31-4	0.0568	JBQ	0.00591	5.38	1
11031	123478-HxCDF	70648-26-9	0.0233	JBQ	0.00925	5.38	1
11031	123678-HxCDF	57117-44-9	0.0252	JBQ	0.00753	5.38	1
11031	123789-HxCDF	72918-21-9	0.0309	JBQ	0.00871	5.38	1
11031	234678-HxCDF	60851-34-5	0.0408	JBQ	0.00742	5.38	1
11031	1234678-HpCDF	67562-39-4	0.188	JB	0.00903	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0260	JBQ	0.0120	5.38	1
11031	OCDF	39001-02-0	0.262	JB	0.0199	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-9.0-10.0

LLI Sample # SW 6234530
LLI Group # 1238152
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/18/2011 15:24

Submitted: 03/19/2011 09:30
Reported: 04/14/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6312 SDG#: DX063-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-160-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5A-SB-9.0-10.0

LLI Sample # SW 6234530
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Collected: 03/18/2011 15:24

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6312 SDG#: DX063-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/06/2011 08:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238152
Reported: 04/14/11 at 02:48 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11095162401B	Sample number(s): 6234526-6234530								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11091001	Sample number(s): 6234526-6234530								
2378-TCDD	0.0208 J	0.0105	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0298 J	0.0107	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0182 J	0.0110	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0403 J	0.0114	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0388 J	0.0113	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.310 J	0.0181	5.00	ng/kg	95		70-140		
OCDD	0.510 J	0.0191	10.0	ng/kg	94		78-144		
2378-TCDF	0.0115 J	0.00910	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0287 J	0.00540	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0800 J	0.00560	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0878 J	0.0138	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0723 J	0.0124	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0760 J	0.0171	5.00	ng/kg	91		78-130		
234678-HxCDF	0.170 J	0.0137	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.442 J	0.0102	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0789 J	0.0158	5.00	ng/kg	92		78-138		
OCDF	0.345 J	0.0201	10.0	ng/kg	90		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11095162401B	Sample number(s): 6234526-6234530					BKG: P235704			
Moisture Content by 160.3						13.7	13.2	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238152
Reported: 04/14/11 at 02:48 PM

Surrogate Quality Control

Batch number: 11091001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6234526	77	83	75	82	79	76
6234527	79	83	80	88	82	79
6234528	75	85	80	84	80	79
6234529	63	75	68	77	72	64
6234530	69	80	64	75	74	70
Blank	79	92	90	96	88	78
OPR	75	82	80	85	81	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6234526	87	71	64	99	81	77
6234527	92	72	65	98	83	81
6234528	88	74	70	92	80	80
6234529	80	56	47	90	73	73
6234530	78	66	60	83	76	75
Blank	104	75	65	109	93	90
OPR	91	73	68	92	80	81
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6234526	84	81	80	75	78	86
6234527	87	83	80	75	81	91
6234528	81	79	78	75	79	86
6234529	75	73	70	63	68	78
6234530	75	74	73	68	75	82
Blank	95	90	91	85	84	99
OPR	81	81	80	76	78	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1238152 sample#623452G-30

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*VOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-159-SA5A-SB-4.0-5.0	03.18.11	0924	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-159-SA5A-SB-4.5	03.18.11	0919	SOIL	NONE	5-Encores										X	X	X										
SL-169-SA5A-SB-4.0-5.0	03.18.11	1047	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-169-SA5A-SB-4.5	03.18.11	1041	SOIL	NONE	5-Encores										X	X	X										
SL-168-SA5A-SB-4.0-5.0	03.18.11	1249	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-168-SA5A-SB-4.5	03.18.11	1244	SOIL	NONE	5-Encores										X	X	X										
SL-160-SA5A-SB-4.0-5.0	03.18.11	1514	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-160-SA5A-SB-4.5	03.18.11	1509	SOIL	NONE	5-Encores										X	X	X										
SL-160-SA5A-SB-9.0-10.0	03.18.11	1524	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-160-SA5A-SB-9.5	03.18.11	1521	SOIL	NONE	5-Encores										X	X	X										
TB-031811	03.18.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 03/18/2011 / 17:00 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 3/18/11 0930 — Airbill No.(s): 8695 1432 5496

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/22/2011
Group Number: 1238354
SDG: DE109
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-161-SA5A-SB-4.0-5.0 Soil	6235702
SL-161-SA5A-SB-7.5-8.5 Soil	6235703
SL-163-SA5A-SB-4.0-5.0 Soil	6235704
SL-252-SA5A-SB-4.0-5.0 Soil	6235705
TB-032111 Water	6235706

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-161-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-4.0-5.0

LLI Sample # SW 6235702
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 08:54

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-1 SDG#: DE109-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1	U	6.1	7.3		0.82
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.82
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.82
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.82
06192	Bromoform	75-25-2	0.36	U	0.36	3.7		0.82
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.82
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3		0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.82
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.7		0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.82
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.7		0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.82
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.82
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7		0.82
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.82
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.82
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.82
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.82
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7		0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.82
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.82
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.7		0.82
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.82
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3		0.82
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.7		0.82
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.82
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.3		0.82
06192	Methylene Chloride	75-09-2	1.9	J	0.22	3.7		0.82
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.82

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Sample Description: SL-161-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-4.0-5.0

LLI Sample # SW 6235702
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 08:54

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

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109-1 SDG#: DE109-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.82
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.82
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.7		0.82
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.82
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.82
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.7		0.82
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.7		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.82
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.82
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13		20.03
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.2	U	18.2	36.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-4.0-5.0

LLI Sample # SW 6235702
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109-1 SDG#: DE109-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-4.0-5.0

LLI Sample # SW 6235702
LLI Group # 1238354
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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.73
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1

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Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	1.2	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.49	J	0.44	1.3		1

C8-C11 was detected in the method blank at a concentration of 0.50 mg/kg. The LCS recovery for C30-C40 is outside the QC limits. The sample was re-extracted within the method hold time. Target analytes were also detected in the re-extracted method blank. The C30-C40 result for the re-extraction is 0.65 mg/kg. All results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-161-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-4.0-5.0

LLI Sample # SW 6235702
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 08:54

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-1 SDG#: DE109-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,900		5.49	21.8		1
07914	Boron	7440-42-8	0.971	U	0.971	5.45		1
01650	Calcium	7440-70-2	2,200		6.68	21.8		1
01654	Iron	7439-89-6	21,900		5.14	21.8		1
01656	Lithium	7439-93-2	20.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,280		2.77	10.9		1
06958	Manganese	7439-96-5	273		0.0851	0.545		1
10145	Phosphorus	7723-14-0	278		0.611	10.9		1
01662	Potassium	7440-09-7	2,630		19.6	54.5		1
01667	Sodium	7440-23-5	81.5	J	40.7	109		1
07968	Strontium	7440-24-6	18.1		0.0676	0.545		1
06969	Tin	7440-31-5	3.30	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,160		0.414	1.09		1
10146	Zirconium	7440-67-7	3.29	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.195	J	0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.30		0.0864	0.432		2
06126	Barium	7440-39-3	92.0		0.117	0.432		2
06127	Beryllium	7440-41-7	0.628		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0991	J	0.0432	0.108		2
06131	Chromium	7440-47-3	19.3		0.130	0.432		2
06132	Cobalt	7440-48-4	6.65		0.0216	0.108		2
06133	Copper	7440-50-8	8.20		0.0713	0.432		2
06135	Lead	7439-92-1	5.47		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.653		0.0540	0.108		2
06139	Nickel	7440-02-0	11.2		0.108	0.432		2
06141	Selenium	7782-49-2	0.117	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0302	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.289		0.0324	0.108		2
06148	Vanadium	7440-62-2	39.1		0.0238	0.108		2
06149	Zinc	7440-66-6	49.8		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.89	1.7		1

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Sample Description: SL-161-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-4.0-5.0

LLI Sample # SW 6235702
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 08:54

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-1 SDG#: DE109-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	419		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.17		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-161-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110821AA	03/23/2011 16:13	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110832AA	03/24/2011 20:26	Sara E Johnson	20.03
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108123912	03/22/2011 18:13	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108123912	03/22/2011 18:32	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108123912	03/22/2011 18:32	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108123912	03/22/2011 18:10	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11084SLB026	04/05/2011 13:50	Timothy J Trees	1

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Sample Description: **SL-161-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-4.0-5.0

LLI Sample # SW 6235702
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 08:54

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-1 SDG#: DE109-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011	07:12	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11087SLD026	04/01/2011	02:28	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11084SLB026	03/26/2011	09:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11087SLD026	03/29/2011	10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011	10:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34B	03/24/2011	14:48	Elizabeth J Marin	20.73
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108123912	03/22/2011	18:09	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/27/2011	07:08	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011	21:11	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	03/31/2011	20:14	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011	17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011	20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011	14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110880013A	03/31/2011	13:34	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110830025A	03/25/2011	00:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110830001A	03/24/2011	16:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/28/2011	22:09	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110880013A	03/29/2011	18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011	02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110830001A	03/24/2011	10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110830025A	03/24/2011	17:40	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110825708002	03/24/2011	09:59	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110825708002	03/24/2011	09:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110825708002	03/24/2011	09:59	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110825708002	03/24/2011	09:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	2	110825708002	03/24/2011	13:09	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110825708002	03/24/2011	09:59	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110825708002	03/24/2011	09:59	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110825708002	03/24/2011	13:09	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110825708002	03/24/2011	09:59	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110825708002	03/24/2011	09:59	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110825708002	03/24/2011	09:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110825708002	03/24/2011	09:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110825708002	03/24/2011	13:09	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110825708002	03/24/2011	09:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110821026001A	03/27/2011	12:26	David K Beck	2
06125	Arsenic	SW-846 6020	1	110821026001A	03/27/2011	12:26	David K Beck	2
06126	Barium	SW-846 6020	1	110821026001D	03/27/2011	12:26	David K Beck	2
06127	Beryllium	SW-846 6020	1	110821026001A	03/27/2011	12:26	David K Beck	2
06128	Cadmium	SW-846 6020	1	110821026001A	03/27/2011	12:26	David K Beck	2

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Sample Description: **SL-161-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-4.0-5.0

LLI Sample # SW 6235702
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 08:54

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-1 SDG#: DE109-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110821026001A	03/27/2011 12:26	David K Beck	2
06132	Cobalt	SW-846 6020	1	110821026001A	03/27/2011 12:26	David K Beck	2
06133	Copper	SW-846 6020	1	110821026001A	03/27/2011 12:26	David K Beck	2
06135	Lead	SW-846 6020	1	110821026001A	03/27/2011 12:26	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110821026001C	03/27/2011 12:26	David K Beck	2
06139	Nickel	SW-846 6020	1	110821026001A	03/27/2011 12:26	David K Beck	2
06141	Selenium	SW-846 6020	1	110821026001B	03/27/2011 12:26	David K Beck	2
06142	Silver	SW-846 6020	1	110821026001A	03/27/2011 12:26	David K Beck	2
06145	Thallium	SW-846 6020	1	110821026001A	03/27/2011 12:26	David K Beck	2
06148	Vanadium	SW-846 6020	1	110821026001A	03/27/2011 12:26	David K Beck	2
06149	Zinc	SW-846 6020	1	110821026001A	03/27/2011 12:26	David K Beck	2
00159	Mercury	SW-846 7471A	1	110825711002	03/24/2011 08:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110825708002	03/23/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110821026001	03/23/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110825711002	03/23/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201A	03/29/2011 16:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11087495201A	03/29/2011 16:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201A	03/29/2011 12:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11089243201A	04/04/2011 15:00	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201A	03/29/2011 17:33	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201A	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201A	03/25/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201A	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11083182102A	03/24/2011 09:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11083039402A	03/24/2011 09:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-161-SA5A-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-7.5-8.5

LLI Sample # SW 6235703
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 09:03

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-2 SDG#: DE109-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6	U	7.6	9.1		1.05
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.05
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.05
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1.05
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.05
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1.05
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.05
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		1.05
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		1.05
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.05
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.05
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.05
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1.05
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.05
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.05
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		1.05
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1.05
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.05
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.05
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.05
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		1.05
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		1.05
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.05
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.05
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.05
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		1.05
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.05
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		1.05
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.05
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.05
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.05
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.5		1.05
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		1.05
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.05
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.05
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.05
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.05
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.05
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.05
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.05
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1.05
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.05
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.05
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		1.05
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.05
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1.05
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1.05
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		1.05
06192	Methylene Chloride	75-09-2	3.9	J	0.27	4.5		1.05
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.05

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-161-SA5A-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-7.5-8.5

LLI Sample # SW 6235703
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 09:03

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-2 SDG#: DE109-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.05
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1.05
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.05
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		1.05
06192	Toluene	108-88-3	0.10	J	0.09	4.5		1.05
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.05
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.05
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		1.05
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		1.05
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.05
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		1.05
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1.05
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1.05
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.05
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		1.05
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.05
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.05
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		25.46
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.7	U	17.7	35.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: **SL-161-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-7.5-8.5

LLI Sample # SW 6235703
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 09:03

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-2 SDG#: DE109-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1

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Sample Description: **SL-161-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-7.5-8.5

LLI Sample # SW 6235703
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 09:03

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-2 SDG#: DE109-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.81	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.04
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1

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Sample Description: SL-161-SA5A-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-7.5-8.5

LLI Sample # SW 6235703
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 09:03

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-2 SDG#: DE109-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	2.5		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	5.6		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.51	J	0.43	1.3		1

C8-C11 was detected in the method blank at a concentration of 0.50 mg/kg. The LCS recovery for C30-C40 is outside the QC limits. The sample was re-extracted within the method hold time. Target analytes were also detected in the re-extracted method blank. The C21-C30 and C30-C40 results for the re-extraction are 5.1 mg/kg and 11 mg/kg respectively. All results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	7.0	U	7.0	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-161-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-7.5-8.5

LLI Sample # SW 6235703
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 09:03

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-2 SDG#: DE109-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,600		5.36	21.3		1
07914	Boron	7440-42-8	0.949	U	0.949	5.33		1
01650	Calcium	7440-70-2	2,520		6.53	21.3		1
01654	Iron	7439-89-6	23,100		5.02	21.3		1
01656	Lithium	7439-93-2	23.2		0.23	2.1		1
01657	Magnesium	7439-95-4	4,630		2.71	10.7		1
06958	Manganese	7439-96-5	177		0.0831	0.533		1
10145	Phosphorus	7723-14-0	122		0.597	10.7		1
01662	Potassium	7440-09-7	1,540		19.2	53.3		1
01667	Sodium	7440-23-5	111		39.8	107		1
07968	Strontium	7440-24-6	21.4		0.0661	0.533		1
06969	Tin	7440-31-5	3.44	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,370		0.405	1.07		1
10146	Zirconium	7440-67-7	4.32	J	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.118	J	0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.59		0.0844	0.422		2
06126	Barium	7440-39-3	86.0		0.114	0.422		2
06127	Beryllium	7440-41-7	0.844		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.0422	U	0.0422	0.106		2
06131	Chromium	7440-47-3	23.8		0.127	0.422		2
06132	Cobalt	7440-48-4	6.27		0.0211	0.106		2
06133	Copper	7440-50-8	7.79		0.0697	0.422		2
06135	Lead	7439-92-1	6.68		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.642		0.0528	0.106		2
06139	Nickel	7440-02-0	10.4		0.106	0.422		2
06141	Selenium	7782-49-2	0.120	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0312	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.240		0.0317	0.106		2
06148	Vanadium	7440-62-2	47.5		0.0232	0.106		2
06149	Zinc	7440-66-6	46.5		0.591	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-161-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-7.5-8.5

LLI Sample # SW 6235703
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 09:03

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-2 SDG#: DE109-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	446		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-161-SA5A-SB-8.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110821AA	03/23/2011	16:35	Chelsea B Eastep	1.05
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110832AA	03/24/2011	20:46	Sara E Johnson	25.46
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108123912	03/22/2011	18:19	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-161-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-7.5-8.5

LLI Sample # SW 6235703
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 09:03

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-2 SDG#: DE109-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108123912	03/22/2011 18:32	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108123912	03/22/2011 18:33	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108123912	03/22/2011 18:16	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11084SLB026	04/05/2011 14:07	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 07:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11087SLD026	04/01/2011 04:03	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11084SLB026	03/26/2011 09:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11087SLD026	03/29/2011 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34B	03/24/2011 15:24	Elizabeth J Marin	26.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108123912	03/22/2011 18:15	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/27/2011 07:51	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 21:21	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	03/31/2011 21:10	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110880013A	03/31/2011 16:09	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110830025A	03/25/2011 00:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110830001A	03/24/2011 17:50	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/28/2011 22:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110880013A	03/29/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110830001A	03/24/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110830025A	03/24/2011 17:40	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110825708002	03/24/2011 10:21	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110825708002	03/24/2011 10:21	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110825708002	03/24/2011 10:21	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110825708002	03/24/2011 10:21	Joanne M Gates	1
01656	Lithium	SW-846 6010B	2	110825708002	03/24/2011 13:30	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110825708002	03/24/2011 10:21	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110825708002	03/24/2011 10:21	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110825708002	03/24/2011 13:30	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110825708002	03/24/2011 10:21	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110825708002	03/24/2011 10:21	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110825708002	03/24/2011 10:21	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110825708002	03/24/2011 10:21	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110825708002	03/24/2011 13:30	Joanne M Gates	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-161-SA5A-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-7.5-8.5

LLI Sample # SW 6235703
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 09:03

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-2 SDG#: DE109-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110825708002	03/24/2011 10:21	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110821026001A	03/27/2011 12:45	David K Beck	2
06125	Arsenic	SW-846 6020	1	110821026001A	03/27/2011 12:45	David K Beck	2
06126	Barium	SW-846 6020	1	110821026001D	03/27/2011 12:45	David K Beck	2
06127	Beryllium	SW-846 6020	1	110821026001A	03/27/2011 12:45	David K Beck	2
06128	Cadmium	SW-846 6020	1	110821026001A	03/27/2011 12:45	David K Beck	2
06131	Chromium	SW-846 6020	1	110821026001A	03/27/2011 12:45	David K Beck	2
06132	Cobalt	SW-846 6020	1	110821026001A	03/27/2011 12:45	David K Beck	2
06133	Copper	SW-846 6020	1	110821026001A	03/27/2011 12:45	David K Beck	2
06135	Lead	SW-846 6020	1	110821026001A	03/27/2011 12:45	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110821026001C	03/27/2011 12:45	David K Beck	2
06139	Nickel	SW-846 6020	1	110821026001A	03/27/2011 12:45	David K Beck	2
06141	Selenium	SW-846 6020	1	110821026001B	03/27/2011 12:45	David K Beck	2
06142	Silver	SW-846 6020	1	110821026001A	03/27/2011 12:45	David K Beck	2
06145	Thallium	SW-846 6020	1	110821026001A	03/27/2011 12:45	David K Beck	2
06148	Vanadium	SW-846 6020	1	110821026001A	03/27/2011 12:45	David K Beck	2
06149	Zinc	SW-846 6020	1	110821026001A	03/27/2011 12:45	David K Beck	2
00159	Mercury	SW-846 7471A	1	110825711002	03/24/2011 09:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110825708002	03/23/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110821026001	03/23/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110825711002	03/23/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201A	03/29/2011 16:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11087495201A	03/29/2011 16:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201A	03/29/2011 13:45	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11089243201A	04/04/2011 15:17	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201A	03/29/2011 17:36	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201A	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201A	03/25/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201A	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11083182102A	03/24/2011 09:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11083039402A	03/24/2011 09:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-163-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235704
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-3 SDG#: DE109-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.6		0.82
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.82
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.82
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.82
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.82
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.82
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.82
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.82
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.82
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.82
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.82
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.82
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.82
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.82
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.82
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.82
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.82
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.82
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.82
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.82
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.82
06192	Methylene Chloride	75-09-2	1.8	J	0.23	3.8		0.82
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.82

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-163-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235704
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-3 SDG#: DE109-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.82
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.82
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.82
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.82
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.82
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.82
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.82
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.82
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.53
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.2	U	19.2	38.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1

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Sample Description: SL-163-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235704
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-3 SDG#: DE109-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1

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Sample Description: SL-163-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235704
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-3 SDG#: DE109-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.33
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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Sample Description: SL-163-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235704
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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109-3 SDG#: DE109-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.0	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.49	J	0.46	1.4		1

C8-C11 was detected in the method blank at a concentration of 0.50 mg/kg. The LCS recovery for C30-C40 is outside the QC limits. The sample was re-extracted within the method hold time. Target analytes were also detected in the re-extracted method blank. The C30-C40 result for the re-extraction is 0.49 mg/kg. All results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-163-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235704
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-3 SDG#: DE109-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,800		5.71	22.7		1
07914	Boron	7440-42-8	1.01	U	1.01	5.68		1
01650	Calcium	7440-70-2	2,010		6.96	22.7		1
01654	Iron	7439-89-6	20,400		5.35	22.7		1
01656	Lithium	7439-93-2	19.4		0.25	2.3		1
01657	Magnesium	7439-95-4	4,040		2.89	11.4		1
06958	Manganese	7439-96-5	163		0.0886	0.568		1
10145	Phosphorus	7723-14-0	121		0.636	11.4		1
01662	Potassium	7440-09-7	1,270		20.4	56.8		1
01667	Sodium	7440-23-5	80.6	J	42.4	114		1
07968	Strontium	7440-24-6	17.6		0.0704	0.568		1
06969	Tin	7440-31-5	3.09	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,250		0.432	1.14		1
10146	Zirconium	7440-67-7	3.36	J	0.954	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0695	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.72		0.0927	0.463		2
06126	Barium	7440-39-3	71.9		0.125	0.463		2
06127	Beryllium	7440-41-7	0.736		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.0463	U	0.0463	0.116		2
06131	Chromium	7440-47-3	20.5		0.139	0.463		2
06132	Cobalt	7440-48-4	5.03		0.0232	0.116		2
06133	Copper	7440-50-8	6.03		0.0765	0.463		2
06135	Lead	7439-92-1	6.05		0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.561		0.0579	0.116		2
06139	Nickel	7440-02-0	9.38		0.116	0.463		2
06141	Selenium	7782-49-2	0.153	J	0.0463	0.463		2
06142	Silver	7440-22-4	0.0385	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.240		0.0348	0.116		2
06148	Vanadium	7440-62-2	44.9		0.0255	0.116		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-163-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235704
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-3 SDG#: DE109-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	42.4		0.649	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0088	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.93	U	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	447		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.34		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-163-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-163-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235704
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-3 SDG#: DE109-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110821AA	03/23/2011 16:57	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110832AA	03/24/2011 21:06	Sara E Johnson	20.53
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108123912	03/22/2011 18:24	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108123912	03/22/2011 18:33	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108123912	03/22/2011 18:33	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108123912	03/22/2011 18:22	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11084SLB026	04/05/2011 14:23	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 08:03	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11087SLD026	04/01/2011 04:34	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11084SLB026	03/26/2011 09:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11087SLD026	03/29/2011 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34B	03/24/2011 16:01	Elizabeth J Marin	20.33
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108123912	03/22/2011 18:21	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/27/2011 09:58	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 21:30	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110900028A	04/01/2011 15:08	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	03/31/2011 21:29	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011 17:35	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110900028A	04/01/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110880013A	03/31/2011 14:51	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110830025A	03/25/2011 00:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110830001A	03/24/2011 18:08	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/28/2011 23:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110880013A	03/29/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110830001A	03/24/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110830025A	03/24/2011 17:40	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110825708002	03/24/2011 10:31	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110825708002	03/24/2011 10:31	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110825708002	03/24/2011 10:31	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110825708002	03/24/2011 10:31	Joanne M Gates	1

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Sample Description: **SL-163-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235704
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-3 SDG#: DE109-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	2	110825708002	03/24/2011 13:40	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110825708002	03/24/2011 10:31	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110825708002	03/24/2011 10:31	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110825708002	03/24/2011 13:40	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110825708002	03/24/2011 10:31	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110825708002	03/24/2011 10:31	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110825708002	03/24/2011 10:31	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110825708002	03/24/2011 10:31	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110825708002	03/24/2011 13:40	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110825708002	03/24/2011 10:31	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110821026001A	03/27/2011 12:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	110821026001A	03/27/2011 12:48	David K Beck	2
06126	Barium	SW-846 6020	1	110821026001D	03/27/2011 12:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	110821026001A	03/27/2011 12:48	David K Beck	2
06128	Cadmium	SW-846 6020	1	110821026001A	03/27/2011 12:48	David K Beck	2
06131	Chromium	SW-846 6020	1	110821026001A	03/27/2011 12:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	110821026001A	03/27/2011 12:48	David K Beck	2
06133	Copper	SW-846 6020	1	110821026001A	03/27/2011 12:48	David K Beck	2
06135	Lead	SW-846 6020	1	110821026001A	03/27/2011 12:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110821026001C	03/27/2011 12:48	David K Beck	2
06139	Nickel	SW-846 6020	1	110821026001A	03/27/2011 12:48	David K Beck	2
06141	Selenium	SW-846 6020	1	110821026001B	03/27/2011 12:48	David K Beck	2
06142	Silver	SW-846 6020	1	110821026001A	03/27/2011 12:48	David K Beck	2
06145	Thallium	SW-846 6020	1	110821026001A	03/27/2011 12:48	David K Beck	2
06148	Vanadium	SW-846 6020	1	110821026001A	03/27/2011 12:48	David K Beck	2
06149	Zinc	SW-846 6020	1	110821026001A	03/27/2011 12:48	David K Beck	2
00159	Mercury	SW-846 7471A	1	110825711002	03/24/2011 09:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110825708002	03/23/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110821026001	03/23/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110825711002	03/23/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201A	03/29/2011 17:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11087495201A	03/29/2011 17:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201A	03/29/2011 14:08	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11089243201A	04/04/2011 15:29	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201A	03/29/2011 17:37	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201A	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201A	03/25/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201A	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11083182102A	03/24/2011 09:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11083039402A	03/24/2011 09:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-163-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235704
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-3 SDG#: DE109-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-252-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-252-SA5A-SB-4.0-5.0

LLI Sample # SW 6235705
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 15:35

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-4 SDG#: DE109-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.95
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.3		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.3		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.95
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3		0.95
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.3		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.95
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.95
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7		0.95
06192	Methylene Chloride	75-09-2	1.6	J	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.95

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-252-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-252-SA5A-SB-4.0-5.0

LLI Sample # SW 6235705
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 15:35

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-4 SDG#: DE109-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.95
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.95
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.59
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.9	U	18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: **SL-252-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-252-SA5A-SB-4.0-5.0

LLI Sample # SW 6235705
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 15:35

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-4 SDG#: DE109-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1

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Sample Description: **SL-252-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-252-SA5A-SB-4.0-5.0

LLI Sample # SW 6235705
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 15:35

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-4 SDG#: DE109-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.80	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1

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Sample Description: SL-252-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-252-SA5A-SB-4.0-5.0

LLI Sample # SW 6235705
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 15:35

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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109-4 SDG#: DE109-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.0	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.51	J	0.46	1.4		1

C8-C11 was detected in the method blank at a concentration of 0.50 mg/kg. The LCS recovery for C30-C40 is outside the QC limits. The sample was re-extracted within the method hold time. Target analytes were also detected in the re-extracted method blank. The C30-C40 result for the re-extraction is 0.53 mg/kg. All results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The sample was injected numerous times. Each time the responses for various

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Sample Description: SL-252-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-252-SA5A-SB-4.0-5.0

LLI Sample # SW 6235705
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 15:35

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-4 SDG#: DE109-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,300		5.63	22.4		1
07914	Boron	7440-42-8	0.996	U	0.996	5.60		1
01650	Calcium	7440-70-2	2,270		6.86	22.4		1
01654	Iron	7439-89-6	20,600		5.27	22.4		1
01656	Lithium	7439-93-2	19.5		0.25	2.2		1
01657	Magnesium	7439-95-4	3,960		2.84	11.2		1
06958	Manganese	7439-96-5	262		0.0873	0.560		1
10145	Phosphorus	7723-14-0	256		0.627	11.2		1
01662	Potassium	7440-09-7	2,530		20.1	56.0		1
01667	Sodium	7440-23-5	83.0	J	41.7	112		1
07968	Strontium	7440-24-6	18.8		0.0694	0.560		1
06969	Tin	7440-31-5	3.28	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,190		0.425	1.12		1
10146	Zirconium	7440-67-7	3.14	J	0.940	5.60		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.123	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.64		0.0878	0.439		2
06126	Barium	7440-39-3	99.2		0.119	0.439		2
06127	Beryllium	7440-41-7	0.642		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.144		0.0439	0.110		2
06131	Chromium	7440-47-3	19.9		0.132	0.439		2
06132	Cobalt	7440-48-4	5.90		0.0220	0.110		2
06133	Copper	7440-50-8	7.42		0.0724	0.439		2
06135	Lead	7439-92-1	5.16		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.613		0.0549	0.110		2
06139	Nickel	7440-02-0	10.8		0.110	0.439		2
06141	Selenium	7782-49-2	0.184	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0292	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.238		0.0329	0.110		2
06148	Vanadium	7440-62-2	40.2		0.0241	0.110		2
06149	Zinc	7440-66-6	43.2		0.615	3.29		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0061	J	0.0036	0.126		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-252-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-252-SA5A-SB-4.0-5.0

LLI Sample # SW 6235705
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 15:35

Submitted: 03/22/2011 09:30
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109-4 SDG#: DE109-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.91	U	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	445		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-252-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110821AA	03/23/2011	17:20	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110832AA	03/24/2011	21:26	Sara E Johnson	20.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108123912	03/22/2011	18:30	Lois E Hiltz	n.a.

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Sample Description: **SL-252-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-252-SA5A-SB-4.0-5.0

LLI Sample # SW 6235705
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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109-4 SDG#: DE109-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108123912	03/22/2011 18:33	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108123912	03/22/2011 18:33	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108123912	03/22/2011 18:27	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11084SLB026	04/05/2011 14:40	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11087SLC026	04/02/2011 08:28	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11087SLD026	04/01/2011 05:06	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11084SLB026	03/26/2011 09:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11087SLD026	03/29/2011 10:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11087SLC026	03/29/2011 10:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11080A34B	03/24/2011 16:37	Elizabeth J Marin	21.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108123912	03/22/2011 18:26	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110820004A	03/27/2011 10:40	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 21:40	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110870009A	03/31/2011 21:47	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110870009A	03/28/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110820004A	03/23/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110880013A	03/31/2011 15:17	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110830025A	03/25/2011 00:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110830001A	03/24/2011 18:25	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110840024A	03/29/2011 00:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110880013A	03/29/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	110840024A	03/28/2011 02:15	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110830001A	03/24/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110830025A	03/24/2011 17:40	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110825708002	03/24/2011 10:35	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110825708002	03/24/2011 10:35	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110825708002	03/24/2011 10:35	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110825708002	03/24/2011 10:35	Joanne M Gates	1
01656	Lithium	SW-846 6010B	2	110825708002	03/24/2011 13:44	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110825708002	03/24/2011 10:35	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110825708002	03/24/2011 10:35	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110825708002	03/24/2011 13:44	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110825708002	03/24/2011 10:35	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110825708002	03/24/2011 10:35	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110825708002	03/24/2011 10:35	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110825708002	03/24/2011 10:35	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110825708002	03/24/2011 13:44	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-252-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-252-SA5A-SB-4.0-5.0

LLI Sample # SW 6235705
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 15:35

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-4 SDG#: DE109-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110825708002	03/24/2011 10:35	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110821026001A	03/27/2011 12:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	110821026001A	03/27/2011 12:57	David K Beck	2
06126	Barium	SW-846 6020	1	110821026001D	03/27/2011 12:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	110821026001A	03/27/2011 12:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	110821026001A	03/27/2011 12:57	David K Beck	2
06131	Chromium	SW-846 6020	1	110821026001A	03/27/2011 12:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	110821026001A	03/27/2011 12:57	David K Beck	2
06133	Copper	SW-846 6020	1	110821026001A	03/27/2011 12:57	David K Beck	2
06135	Lead	SW-846 6020	1	110821026001A	03/27/2011 12:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110821026001C	03/27/2011 12:57	David K Beck	2
06139	Nickel	SW-846 6020	1	110821026001A	03/27/2011 12:57	David K Beck	2
06141	Selenium	SW-846 6020	1	110821026001B	03/27/2011 12:57	David K Beck	2
06142	Silver	SW-846 6020	1	110821026001A	03/27/2011 12:57	David K Beck	2
06145	Thallium	SW-846 6020	1	110821026001A	03/27/2011 12:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	110821026001A	03/27/2011 12:57	David K Beck	2
06149	Zinc	SW-846 6020	1	110821026001A	03/27/2011 12:57	David K Beck	2
00159	Mercury	SW-846 7471A	1	110825711002	03/24/2011 09:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110825708002	03/23/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110821026001	03/23/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110825711002	03/23/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11087495201A	03/29/2011 17:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11087495201A	03/29/2011 17:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11083495201A	03/29/2011 14:53	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11089243201A	04/04/2011 15:40	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201A	03/29/2011 17:38	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11087495201A	03/29/2011 00:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11083495201A	03/25/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201A	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11083182102A	03/24/2011 09:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11083039402A	03/24/2011 09:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11089243201A	03/30/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-032111 Water
SSFL Area IV Collocated Soil Sampling
TB-032111

LLI Sample # WW 6235706
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 08:00

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-5 SDG#: DE109-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-032111 Water
SSFL Area IV Collocated Soil Sampling
TB-032111

LLI Sample # WW 6235706
LLI Group # 1238354
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 08:00

Submitted: 03/22/2011 09:30
Reported: 04/12/2011 10:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

109-5 SDG#: DE109-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110822AA	03/23/2011	22:17	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110831AA	03/24/2011	12:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110822AA	03/23/2011	22:17	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110831AA	03/24/2011	12:48	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11087A20A	03/28/2011	11:30	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11087A20A	03/28/2011	11:30	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238354
Reported: 04/12/11 at 10:12 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110821AA	Sample number(s): 6235702-6235705									
Acetone	6.7	U	6.7	8.0	ug/kg	109	99	32-209	9	30
Benzene	0.10	U	0.10	4.0	ug/kg	97	103	80-120	7	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	96	98	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	118	121	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	87	91	78-120	4	30
Bromoform	0.40	U	0.40	4.0	ug/kg	76	76	70-120	0	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	72	80	32-162	11	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	106	98	46-153	8	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	99	109	72-120	9	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	101	112	75-120	10	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	94	102	75-120	8	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	75	88	69-122	15	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	91	96	80-120	5	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	70	79	37-154	11	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	96	91	43-146	5	30
Chloroform	0.12	U	0.12	4.0	ug/kg	95	101	80-120	6	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	72	80	54-132	10	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96	102	78-120	7	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94	99	79-120	5	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	71	66	22-131	7	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	92	89	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	79	80	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96	94	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	98	97	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	94	96	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	94	98	78-120	5	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	95	98	79-120	4	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	59	67	20-120	12	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	95	102	80-120	7	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	96	99	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	102	113	73-123	10	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	95	102	80-120	7	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	96	105	79-120	9	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	96	100	80-120	5	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97	96	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	81	91	72-123	12	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	93	102	77-120	10	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	85	88	80-120	3	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	83	84	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	93	100	80-120	7	30
Freon 113	0.11	U	0.11	4.0	ug/kg	106	117	61-126	10	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	106	101	78-120	5	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	91	101	57-120	10	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	105	98	45-155	7	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	91	101	76-120	10	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	99	108	75-120	8	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238354
Reported: 04/12/11 at 10:12 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	97	96	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	104	100	61-134	4	30
Methylene Chloride	0.68	J	0.24	4.0	ug/kg	105	109	76-124	4	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	104	109	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	89	93	76-120	4	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	81	87	80-120	7	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	104	101	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	88	99	77-120	12	30
Toluene	0.08	U	0.08	4.0	ug/kg	93	100	80-120	8	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94	96	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	92	97	68-120	4	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	87	97	71-125	11	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97	95	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	92	100	80-120	8	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	85	94	58-133	10	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106	101	71-123	4	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	98	105	79-120	6	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	97	104	78-120	7	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	74	83	53-120	12	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	90	97	80-120	8	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	89	95	80-120	7	30
Batch number: E110831AA	Sample number(s): 6235706									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	106	80-123	2	30
Batch number: E110832AA	Sample number(s): 6235702-6235705									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	111	119	70-130	7	30
Batch number: Y110822AA	Sample number(s): 6235706									
Acetone	6	U	6.	20	ug/l	92	82	49-234	12	30
Benzene	0.5	U	0.5	5	ug/l	91	92	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	97	99	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	96	97	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	91	90	80-120	1	30
Bromoform	1	U	1.	5	ug/l	79	78	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	103	101	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	88	86	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	91	91	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	92	95	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	89	91	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	99	98	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	93	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	97	97	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	96	95	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	97	96	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	73	74	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	91	93	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	62	62	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	84	81	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	86	85	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	92	92	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	94	93	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	91	91	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	80	80	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	93	93	79-120	0	30

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1,2-Dichloroethane	1	U	1.	5	ug/l	102	102	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	97	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	91	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	91	90	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	90	88	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	93	93	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	95	95	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	94	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	88	88	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	89	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	91	91	79-120	0	30
Freon 113	2	U	2.	10	ug/l	107	107	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	100	100	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	89	93	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	86	85	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	90	90	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	93	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	94	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	87	89	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	106	98	80-120	8	30
n-Propylbenzene	1	U	1.	5	ug/l	95	96	80-120	2	30
Styrene	1	U	1.	5	ug/l	85	84	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	94	93	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	88	89	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	96	96	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	92	91	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	94	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	92	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	99	99	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	91	92	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	92	92	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	114	113	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	94	97	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	95	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	92	95	75-120	3	30
Vinyl Chloride	1	U	1.	5	ug/l	76	75	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	90	90	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	88	90	80-120	2	30
Batch number: 11084SLB026	Sample number(s): 6235702-6235705									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	84		70-130		
Batch number: 11087SLC026	Sample number(s): 6235702-6235705									
Aniline	170 U		170.	500	ug/kg	61		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	40		15-121		
Benzoic acid	170 U		170.	500	ug/kg	77		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	78		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Carbazole	17	U	17.	170	ug/kg	89		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	76		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	44		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	79		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	76		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	63*		68-131		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	86		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	88		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	88		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	67		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	92		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	81		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	87		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	83		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	70		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	83		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	87		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	78		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	86		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Isophorone	17	U	17.	170	ug/kg	73		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	80		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	82		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	86		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	80		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	57		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	70*		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	60		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	64		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	80		51-117		
Phenol	17	U	17.	170	ug/kg	76		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	87		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11087SLD026	Sample number(s): 6235702-6235705									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	100		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	106		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	97		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	102		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	103		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	107		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	108		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	115		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	91		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	111		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	120		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	119		79-121		

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Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	110		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	109		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	109		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	106		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	97		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	111		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	109		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	94		56-121		
Batch number: 11080A34B	Sample number(s): 6235702-6235705									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	70	67-119	5	30
Batch number: 11087A20A	Sample number(s): 6235706									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 110820004A	Sample number(s): 6235702-6235705									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	103	106	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	103	106	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	106		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100 U		100.	300	ug/kg	102		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	104		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	94		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	111		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800 U		800.	2,400	ug/kg	115		80-120		
RDX	50	U	50.	120	ug/kg	115		75-131		
Tetryl	61	U	61.	120	ug/kg	93		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
Batch number: 110870004A	Sample number(s): 6235702-6235705									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	97		80-126		
Batch number: 110900028A	Sample number(s): 6235704									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		70-130		
Batch number: 110870009A	Sample number(s): 6235702-6235705									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	79	76	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	91		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					

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PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110880013A	Sample number(s): 6235702-6235705									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	104		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	121*		66-113		
EFH (C8-C11)	0.50	J	0.40	1.2	mg/kg	89		66-113		
Batch number: 110830001A	Sample number(s): 6235702-6235705									
Diethylene glycol	5.0	U	5.0	13	mg/kg	103		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	103		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	108		75-125		
Batch number: 110830025A	Sample number(s): 6235702-6235705									
Ethanol	100 U		100.	500	ug/kg	91		71-129		
Isopropanol	100 U		100.	500	ug/kg	95		75-125		
Methanol	100 U		100.	500	ug/kg	84		68-129		
Batch number: 110840024A	Sample number(s): 6235702-6235705									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	81		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 110821026001A	Sample number(s): 6235702-6235705									
Antimony	0.0600	U	0.0600	0.200	mg/kg	114		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	104		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	113		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	111		82-118		
Copper	0.0716	J	0.0660	0.400	mg/kg	106		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	103		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	113		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	105		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	105		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	103		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	105		78-122		
Batch number: 110821026001B	Sample number(s): 6235702-6235705									
Selenium	0.0400	U	0.0400	0.400	mg/kg	113		79-122		
Batch number: 110821026001C	Sample number(s): 6235702-6235705									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	114		78-122		
Batch number: 110821026001D	Sample number(s): 6235702-6235705									
Barium	0.108	U	0.108	0.400	mg/kg	109		79-121		
Batch number: 110825708002	Sample number(s): 6235702-6235705									
Aluminum	21.6		5.03	20.0	mg/kg	93		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	101		78-110		
Calcium	7.09	J	6.13	20.0	mg/kg	98		88-110		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238354
Reported: 04/12/11 at 10:12 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Iron	17.0	J	4.71	20.0	mg/kg	97		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	4.17	J	2.54	10.0	mg/kg	99		82-110		
Manganese	0.383	J	0.0780	0.500	mg/kg	105		81-119		
Phosphorus	0.932	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3	U	37.3	100	mg/kg	100		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	108		79-121		
Tin	1.58	J	1.00	10.0	mg/kg	111		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	102		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	106		80-120		
Batch number: 110825711002	Sample number(s): 6235702-6235705									
Mercury	0.0028	U	0.0028	0.0977	mg/kg	98		88-123		
Batch number: 11083495201A	Sample number(s): 6235702-6235705									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11087495201A	Sample number(s): 6235702-6235705									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11088102201A	Sample number(s): 6235702-6235705									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	96		80-120		
Batch number: 11089243201A	Sample number(s): 6235702-6235705									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	90		80-120		
Batch number: 11083039402A	Sample number(s): 6235702-6235705									
18a pH by 9045C						100		95-105		
Batch number: 11083182102A	Sample number(s): 6235702-6235705									
32a OR Potential						99		98-102		
Batch number: 11095162401B	Sample number(s): 6235702-6235705									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11084SLB026	Sample number(s): 6235702-6235705 UNSPK: P234506								
N-Nitrosodimethylamine	80	78	70-130	3	30				
Batch number: 11087SLC026	Sample number(s): 6235702-6235705 UNSPK: P234506								
Aniline	62	60	35-95	4	30				
Benzidine	23*	20*	35-141	14	30				
Benzoic acid	52	48	10-173	8	30				
Benzyl alcohol	81	79	67-115	3	30				
4-Bromophenyl-phenylether	94	88	67-129	7	30				
Carbazole	86	85	64-120	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238354
Reported: 04/12/11 at 10:12 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chloro-3-methylphenol	76	75*	76-110	1	30				
4-Chloroaniline	59	57	23-95	3	30				
bis(2-Chloroethoxy)methane	77	73*	75-104	4	30				
bis(2-Chloroethyl)ether	75	75	60-116	0	30				
bis(2-Chloroisopropyl)ether	63	60	55-142	5	30				
2-Chloronaphthalene	72	67	50-141	7	30				
2-Chlorophenol	90	85	73-121	6	30				
4-Chlorophenyl-phenylether	88	84	80-109	4	30				
Dibenzofuran	90	84	71-112	6	30				
1,2-Dichlorobenzene	82	78	66-108	5	30				
1,3-Dichlorobenzene	79	78	63-109	1	30				
1,4-Dichlorobenzene	81	79	70-100	2	30				
3,3'-Dichlorobenzidine	57	55	16-119	3	30				
2,4-Dichlorophenol	91	88	78-117	4	30				
2,4-Dimethylphenol	80	76*	78-110	5	30				
3,5-Dimethylphenol	83	81	70-130	2	30				
4,6-Dinitro-2-methylphenol	79	80	24-116	0	30				
2,4-Dinitrophenol	57	60	20-143	4	30				
2,4-Dinitrotoluene	83	81	73-113	3	30				
2,6-Dinitrotoluene	85	81	69-123	4	30				
1,2-Diphenylhydrazine	76	72	71-129	6	30				
Hexachlorobenzene	94	88	77-114	6	30				
Hexachlorobutadiene	83	79	62-120	4	30				
Hexachlorocyclopentadiene	75	71	10-153	5	30				
Hexachloroethane	71	71	57-109	0	30				
Isophorone	71*	69*	73-102	2	30				
2-Methylphenol	84	80	75-111	5	30				
4-Methylphenol	87	84	71-111	4	30				
2-Nitroaniline	85	81	67-125	4	30				
3-Nitroaniline	82	78	59-122	5	30				
4-Nitroaniline	60	59	52-112	2	30				
Nitrobenzene	67*	64*	72-106	6	30				
2-Nitrophenol	88	84	74-115	4	30				
4-Nitrophenol	57	62	54-113	9	30				
N-Nitroso-di-n-propylamine	65	63	60-116	4	30				
N-Nitrosodiphenylamine	95	91	86-145	5	30				
Pentachlorophenol	74	68	28-127	7	30				
Phenol	78	75	58-126	5	30				
1,2,4-Trichlorobenzene	87	85	72-115	3	30				
2,4,5-Trichlorophenol	87	85	78-109	3	30				
2,4,6-Trichlorophenol	88	85	77-115	3	30				
Batch number: 11087SLD026	Sample number(s): 6235702-6235705 UNSPK: 6235702								
Acenaphthene	95	99	63-105	4	30				
Acenaphthylene	102	105	67-114	2	30				
Anthracene	72	94	60-122	27	30				
Benzo(a)anthracene	96	103	59-128	6	30				
Benzo(a)pyrene	97	103	45-138	6	30				
Benzo(b)fluoranthene	98	105	43-155	7	30				
Benzo(g,h,i)perylene	99	104	33-141	5	30				
Benzo(k)fluoranthene	96	100	42-144	4	30				
Butylbenzylphthalate	103	111	57-173	8	30				
Di-n-butylphthalate	110	114	65-148	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238354
Reported: 04/12/11 at 10:12 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chrysene	83	90	48-134	8	30				
Dibenz(a,h)anthracene	101	106	22-133	5	30				
Diethylphthalate	114	118	70-136	4	30				
Dimethylphthalate	110	117	74-118	6	30				
Bis(2-Ethylhexyl)phthalate	106	111	39-167	5	30				
Fluoranthene	102	110	26-166	8	30				
Fluorene	100	105	66-122	5	30				
Indeno(1,2,3-cd)pyrene	99	104	21-143	5	30				
1-Methylnaphthalene	90	93	72-123	4	30				
2-Methylnaphthalene	101	104*	64-103	3	30				
Naphthalene	94	96	61-102	2	30				
N-Nitrosodimethylamine	84	86	48-113	3	30				
Di-n-octylphthalate	101	108	40-192	7	30				
Phenanthrene	134	111	12-165	19	30				
Pyrene	91	96	15-153	6	30				
Batch number: 110820004A	Sample number(s): 6235702-6235705 UNSPK: P230971								
4-Amino-2,6-Dinitrotoluene	110	108	80-127	4	50				
2-Amino-4,6-Dinitrotoluene	109	108	80-137	3	50				
1,3-Dinitrobenzene	109	108	38-166	3	50				
2,4-Dinitrotoluene	105	104	80-131	3	50				
2,6-Dinitrotoluene	110	106	80-127	5	50				
HMX	100	100	63-128	3	50				
Nitrobenzene	101	100	80-125	2	50				
Nitroglycerin	100	100	80-120	2	50				
2-Nitrotoluene	110	110	80-122	2	50				
3-Nitrotoluene	110	109	72-119	3	50				
4-Nitrotoluene	108	107	80-125	3	50				
PETN	117	116	80-121	3	50				
RDX	104	104	75-129	2	50				
Tetryl	77	79	55-174	2	50				
1,3,5-Trinitrobenzene	101	100	82-126	3	50				
2,4,6-Trinitrotoluene	108	107	82-130	3	50				
Batch number: 110870004A	Sample number(s): 6235702-6235705 UNSPK: P239176								
25a Formaldehyde 8315A	98	106	80-120	7	50				
Batch number: 110900028A	Sample number(s): 6235704 UNSPK: 6235704								
6a Perchlorate EPA 6850	106	103	80-120	3	20				
Batch number: 110870009A	Sample number(s): 6235702-6235705 UNSPK: 6235702								
PCB-1016	85	97	29-146	13	50				
PCB-1260	102	115	39-149	12	50				
Batch number: 110880013A	Sample number(s): 6235702-6235705 UNSPK: 6235702								
EFH (C12-C14)	86	94	49-123	9	20				
EFH (C15-C20)	114	116	49-123	2	20				
EFH (C21-C30)	89	95	49-123	6	20				
EFH (C30 - C40)	74	79	49-123	4	20				
EFH (C8-C11)	40*	58	49-123	18	20				
Batch number: 110830001A	Sample number(s): 6235702-6235705 UNSPK: 6235702								
Diethylene glycol	84	81	59-109	4	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238354
Reported: 04/12/11 at 10:12 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylene glycol	86	80	63-107	8	20				
Propylene glycol	93	84	63-107	11	20				
Batch number: 110830025A	Sample number(s): 6235702-6235705 UNSPK: 6235705								
Ethanol	78	75	48-130	3	20				
Isopropanol	81	79	12-149	3	20				
Methanol	78	74	43-138	5	20				
Batch number: 110840024A	Sample number(s): 6235702-6235705 UNSPK: P232220								
m-Terphenyl	79	73*	75-125	9	20				
o-Terphenyl	95	87	75-125	9	20				
p-Terphenyl	77	72*	75-125	7	20				
Batch number: 110821026001A	Sample number(s): 6235702-6235705 UNSPK: 6235702 BKG: 6235702								
Antimony	48*	42*	75-125	10	20	0.176 J	0.0577 U	200* (1)	20
Arsenic	102	88	75-125	4	20	4.77	3.52	30*	20
Beryllium	100	93	75-125	3	20	0.565	0.510	10	20
Cadmium	100	91	75-125	8	20	0.0890 J	0.0932 J	5 (1)	20
Chromium	120	109	75-125	4	20	17.4	15.0	15	20
Cobalt	105	101	75-125	3	20	5.98	4.95	19	20
Copper	113	102	75-125	6	20	7.37	6.21	17	20
Lead	99	90	75-125	3	20	4.92	4.09	18	20
Nickel	114	98	75-125	7	20	10.1	8.57	16	20
Silver	104	98	75-125	4	20	0.0271 J	0.0217 J	22* (1)	20
Thallium	90	90	75-125	0	20	0.259	0.207	22* (1)	20
Vanadium	130*	114	75-125	3	20	35.2	30.8	13	20
Zinc	123 (2)	82 (2)	75-125	7	20	44.8	40.2	11	20
Batch number: 110821026001B	Sample number(s): 6235702-6235705 UNSPK: 6235702 BKG: 6235702								
Selenium	106	107	75-125	2	20	0.105 J	0.0776 J	30* (1)	20
Batch number: 110821026001C	Sample number(s): 6235702-6235705 UNSPK: 6235702 BKG: 6235702								
Molybdenum	99	92	75-125	6	20	0.587	0.316	60* (1)	20
Batch number: 110821026001D	Sample number(s): 6235702-6235705 UNSPK: 6235702 BKG: 6235702								
Barium	118 (2)	63 (2)	75-125	6	20	82.7	77.4	7	20
Batch number: 110825708002	Sample number(s): 6235702-6235705 UNSPK: 6235702 BKG: 6235702								
Aluminum	2023 (2)	2543 (2)	75-125	5	20	15,200	15,600	3	20
Boron	105	106	84-115	2	20	0.873 U	0.873 U	0 (1)	20
Calcium	129 (2)	158 (2)	75-125	5	20	1,980	1,980	0	20
Iron	-237 (2)	895 (2)	75-125	6	20	19,700	20,300	3	20
Lithium	100	102	82-114	2	20	18.6	19.3	4	20
Magnesium	138 (2)	244 (2)	75-125	5	20	3,850	3,970	3	20
Manganese	157 (2)	195 (2)	75-125	6	20	246	264	7	20
Phosphorus	90	89	75-125	0	20	250	248	1	20
Potassium	108	128*	75-125	6	20	2,370	2,470	4	20
Sodium	101	102	75-125	2	20	73.2 J	75.3 J	3 (1)	20
Strontium	104	106	75-115	3	20	16.3	16.3	0	20
Tin	100	101	80-110	2	20	2.96 J	2.76 J	7 (1)	20
Titanium	192 (2)	262 (2)	75-125	6	20	1,050	1,040	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238354
Reported: 04/12/11 at 10:12 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Zirconium	99	98	75-125	0	20	2.96	J	3.99	J	30* (1)	20
Batch number: 110825711002	Sample number(s): 6235702-6235705 UNSPK: 6235702 BKG: 6235702										
Mercury	100	96	65-135	3	20	0.0027	U	0.0028	U	0 (1)	20
Batch number: 11083495201A	Sample number(s): 6235702-6235705 UNSPK: 6235702 BKG: 6235702										
7a Perchlorate EPA 314.0	94		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11087495201A	Sample number(s): 6235702-6235705 UNSPK: 6235702 BKG: 6235702										
11a Anions by 300.0 - Fluoride	44*		80-120			1.9		0.97	J	64* (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			1.7		2.4		32* (1)	20
Batch number: 11088102201A	Sample number(s): 6235702-6235705 UNSPK: P234506 BKG: P234506										
17a Cyanide by 9012B	106		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11089243201A	Sample number(s): 6235702-6235705 UNSPK: P236854 BKG: P236854										
3a Cr VI by EPA 7199	88		75-125			0.34	J	0.69	J	67* (1)	20
Batch number: 11083039402A	Sample number(s): 6235702-6235705 BKG: 6235702										
18a pH by 9045C						6.17		6.15		0	1
Batch number: 11083182102A	Sample number(s): 6235702-6235705 BKG: 6235702										
32a OR Potential						419		432		3	6
Batch number: 11095162401B	Sample number(s): 6235702-6235705 BKG: 6235704										
Moisture Content by 160.3						13.7		13.2		4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110821AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6235702	101	107	99	96
6235703	97	101	99	95
6235704	98	101	98	95
6235705	99	103	98	94
Blank	98	99	99	95
LCS	99	102	100	100
LCSD	100	101	100	99
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110831AA

	Toluene-d8

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238354
Reported: 04/12/11 at 10:12 AM

Surrogate Quality Control

6235706	97
Blank	101
LCS	97
LCSD	102
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110832AA

	Toluene-d8
6235702	96
6235703	100
6235704	94
6235705	94
Blank	96
LCS	95
LCSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110822AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6235706	105	100	99	94
Blank	102	101	100	94
LCS	103	105	101	97
LCSD	103	102	101	98
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11084SLB026

	N-Nitrosodimethylamine-d6
6235702	110
6235703	88
6235704	91
6235705	90
Blank	95
LCS	94
MS	94
MSD	88
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11087SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6235702	73	80	78	63	84	88
6235703	72	79	79	63	85	83
6235704	74	79	79	62	81	85
6235705	72	79	78	62	82	86
Blank	76	84	85	68	89	86

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238354
Reported: 04/12/11 at 10:12 AM

Surrogate Quality Control

LCS	76	82	85	68	89	86
MS	79	84	85	65	88	86
MSD	77	82	84	64	84	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11087SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6235702	96	90	118
6235703	92	90	103
6235704	92	89	106
6235705	99	95	105
Blank	111	111	128
LCS	97	98	107
MS	95	93	103
MSD	96	96	106
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11080A34B

	Trifluorotoluene-F
6235702	77
6235703	82
6235704	79
6235705	76
Blank	86
LCS	84
LCSD	79
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11087A20A

	Trifluorotoluene-F
6235706	80
Blank	77
LCS	121
LCSD	113
Limits:	63-135

Analysis Name: 16a Energetics by 8330A
Batch number: 110820004A

	2-Nitro-m-xylene
6235702	106
6235703	122
6235704	107
6235705	102
Blank	102
LCS	116
LCSD	115

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238354
Reported: 04/12/11 at 10:12 AM

Surrogate Quality Control

MS	107
MSD	106
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110870004A

	Butyraldehyde
6235702	94
6235703	99
6235704	103
6235705	99
Blank	103
LCS	100
MS	103
MSD	103
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110870009A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6235702	80	102
6235703	94	98
6235704	96	107
6235705	84	99
Blank	86	101
LCS	84	105
LCSD	85	105
MS	74	97
MSD	88	107
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110830001A

	Tetramethylene glycol
6235702	72
6235703	86
6235704	56
6235705	56
Blank	90
LCS	102
MS	91
MSD	83
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 110830025A

	Acetone
6235702	78
6235703	83

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238354
Reported: 04/12/11 at 10:12 AM

Surrogate Quality Control

6235704	74
6235705	78
Blank	94
LCS	93
MS	77
MSD	76
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110840024A

	n-Triacontane-d62
6235702	74
6235703	77
6235704	73
6235705	73
Blank	73
LCS	72
MS	73
MSD	71
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110880013A

	Chlorobenzene	Orthoterphenyl
6235702	79	95
6235703	79	93
6235704	81	97
6235705	73	85
Blank	79	96
LCS	78	92
MS	82	93
MSD	84	96
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1238354 Sample# 6235702-06

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-161-SA5A-SB-4.0-5.0	3.21.11	0854	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-161-SA5A-SB-4.5	3.21.11	0850	SOIL	NONE	5-Encores										X	X	X										
SL-161-SA5A-SB-7.5-8.5	3.21.11	0903	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-161-SA5A-SB-8.0	3.21.11	0859	SOIL	NONE	5-Encores										X	X	X										
SL-163-SA5A-SB-4.0-5.0	3.21.11	1149	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-163-SA5A-SB-4.5	3.21.11	1145	SOIL	NONE	5-Encores										X	X	X										
SL-252-SA5A-SB-4.0-5.0	3.21.11	1535	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-252-SA5A-SB-4.5	3.21.11	1530	SOIL	NONE	5-Encores										X	X	X										
TB-032111	3.21.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/21/2011 / 17:00 — Received for Laboratory by: (*Signature*) Gary Herlach 3/22/11 930

Received by: (*Signature*) — Date/Time — Airbill No.(s): 945 1432 3725

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/22/2011
Group Number: 1238355
SDG: DX063
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-161-SA5A-SB-4.0-5.0 Soil	6235707
SL-161-SA5A-SB-7.5-8.5 Soil	6235708
SL-163-SA5A-SB-4.0-5.0 Soil	6235709
SL-252-SA5A-SB-4.0-5.0 Soil	6235710

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-161-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-4.0-5.0

LLI Sample # SW 6235707
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 08:54

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6313 SDG#: DX063-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-161-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-4.0-5.0

LLI Sample # SW 6235707
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 08:54

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6313 SDG#: DX063-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0154 U	0.0154	1.11	1
11031	12378-PeCDD	40321-76-4	0.0179 JBQ	0.0145	5.56	1
11031	123478-HxCDD	39227-28-6	0.0137 U	0.0137	5.56	1
11031	123678-HxCDD	57653-85-7	0.0491 JBQ	0.0139	5.56	1
11031	123789-HxCDD	19408-74-3	0.140 JB	0.0132	5.56	1
11031	1234678-HpCDD	35822-46-9	0.174 JB	0.0161	5.56	1
11031	OCDD	3268-87-9	0.612 JB	0.0249	11.1	1
11031	2378-TCDF	51207-31-9	0.0106 U	0.0106	1.11	1
11031	12378-PeCDF	57117-41-6	0.0190 JB	0.00667	5.56	1
11031	23478-PeCDF	57117-31-4	0.0476 JBQ	0.00656	5.56	1
11031	123478-HxCDF	70648-26-9	0.00990 U	0.00990	5.56	1
11031	123678-HxCDF	57117-44-9	0.0183 JB	0.00745	5.56	1
11031	123789-HxCDF	72918-21-9	0.0787 JB	0.00901	5.56	1
11031	234678-HxCDF	60851-34-5	0.0351 JB	0.00756	5.56	1
11031	1234678-HpCDF	67562-39-4	0.0864 JB	0.00857	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0126 U	0.0126	5.56	1
11031	OCDF	39001-02-0	0.116 JBQ	0.0206	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-161-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-4.0-5.0

LLI Sample # SW 6235707
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 08:54

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6313 SDG#: DX063-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-161-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-4.0-5.0

LLI Sample # SW 6235707
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 08:54

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6313 SDG#: DX063-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/06/2011 09:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-161-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-7.5-8.5

LLI Sample # SW 6235708
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 09:03

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6314 SDG#: DX063-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-161-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-7.5-8.5

LLI Sample # SW 6235708
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 09:03

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6314 SDG#: DX063-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0121 U	0.0121	1.08	1
11031	12378-PeCDD	40321-76-4	0.0103 U	0.0103	5.38	1
11031	123478-HxCDD	39227-28-6	0.0101 JBQ	0.00926	5.38	1
11031	123678-HxCDD	57653-85-7	0.0169 JB	0.00947	5.38	1
11031	123789-HxCDD	19408-74-3	0.0159 JBQ	0.00904	5.38	1
11031	1234678-HpCDD	35822-46-9	0.170 JB	0.0124	5.38	1
11031	OCDD	3268-87-9	0.459 JB	0.0220	10.8	1
11031	2378-TCDF	51207-31-9	0.0125 JBQ	0.00926	1.08	1
11031	12378-PeCDF	57117-41-6	0.00950 JB	0.00517	5.38	1
11031	23478-PeCDF	57117-31-4	0.0469 JBQ	0.00506	5.38	1
11031	123478-HxCDF	70648-26-9	0.0222 JBQ	0.00710	5.38	1
11031	123678-HxCDF	57117-44-9	0.0192 JB	0.00614	5.38	1
11031	123789-HxCDF	72918-21-9	0.0225 JBQ	0.00829	5.38	1
11031	234678-HxCDF	60851-34-5	0.0429 JBQ	0.00646	5.38	1
11031	1234678-HpCDF	67562-39-4	0.111 JB	0.00732	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0461 JBQ	0.0118	5.38	1
11031	OCDF	39001-02-0	0.140 JBQ	0.0191	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-161-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-7.5-8.5

LLI Sample # SW 6235708
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 09:03

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6314 SDG#: DX063-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-161-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5A-SB-7.5-8.5

LLI Sample # SW 6235708
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 09:03

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6314 SDG#: DX063-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/06/2011 10:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-163-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235709
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6315 SDG#: DX063-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-163-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235709
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6315 SDG#: DX063-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0160 U	0.0160	1.16	1
11031	12378-PeCDD	40321-76-4	0.0230 JBQ	0.0153	5.79	1
11031	123478-HxCDD	39227-28-6	0.0118 U	0.0118	5.79	1
11031	123678-HxCDD	57653-85-7	0.0215 JBQ	0.0122	5.79	1
11031	123789-HxCDD	19408-74-3	0.0411 JBQ	0.0112	5.79	1
11031	1234678-HpCDD	35822-46-9	0.184 JB	0.0188	5.79	1
11031	OCDD	3268-87-9	0.515 JB	0.0341	11.6	1
11031	2378-TCDF	51207-31-9	0.0137 JB	0.0103	1.16	1
11031	12378-PeCDF	57117-41-6	0.00742 U	0.00742	5.79	1
11031	23478-PeCDF	57117-31-4	0.0468 JBQ	0.00695	5.79	1
11031	123478-HxCDF	70648-26-9	0.0315 JBQ	0.0107	5.79	1
11031	123678-HxCDF	57117-44-9	0.0231 JB	0.00857	5.79	1
11031	123789-HxCDF	72918-21-9	0.00927 U	0.00927	5.79	1
11031	234678-HxCDF	60851-34-5	0.0446 JB	0.00776	5.79	1
11031	1234678-HpCDF	67562-39-4	0.0906 JBQ	0.00800	5.79	1
11031	1234789-HpCDF	55673-89-7	0.0260 JB	0.0115	5.79	1
11031	OCDF	39001-02-0	0.104 JBQ	0.0256	11.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-163-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235709
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6315 SDG#: DX063-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-163-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5A-SB-4.0-5.0

LLI Sample # SW 6235709
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 11:49

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6315 SDG#: DX063-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/06/2011 11:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-252-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-252-SA5A-SB-4.0-5.0

LLI Sample # SW 6235710
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 15:35

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6316 SDG#: DX063-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-252-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-252-SA5A-SB-4.0-5.0

LLI Sample # SW 6235710
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 15:35

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6316 SDG#: DX063-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0135 U	0.0135	1.14	1
11031	12378-PeCDD	40321-76-4	0.0301 JB	0.0152	5.71	1
11031	123478-HxCDD	39227-28-6	0.0136 U	0.0136	5.71	1
11031	123678-HxCDD	57653-85-7	0.0474 JBQ	0.0124	5.71	1
11031	123789-HxCDD	19408-74-3	0.0937 JBQ	0.0115	5.71	1
11031	1234678-HpCDD	35822-46-9	0.127 JBQ	0.0152	5.71	1
11031	OCDD	3268-87-9	0.311 JBQ	0.0220	11.4	1
11031	2378-TCDF	51207-31-9	0.0111 U	0.0111	1.14	1
11031	12378-PeCDF	57117-41-6	0.0336 JBQ	0.00639	5.71	1
11031	23478-PeCDF	57117-31-4	0.0484 JB	0.00662	5.71	1
11031	123478-HxCDF	70648-26-9	0.0249 JBQ	0.0146	5.71	1
11031	123678-HxCDF	57117-44-9	0.0233 JBQ	0.00970	5.71	1
11031	123789-HxCDF	72918-21-9	0.0692 JBQ	0.00913	5.71	1
11031	234678-HxCDF	60851-34-5	0.0394 JBQ	0.00753	5.71	1
11031	1234678-HpCDF	67562-39-4	0.0468 JB	0.00868	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0202 JBQ	0.0100	5.71	1
11031	OCDF	39001-02-0	0.131 JBQ	0.0196	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-252-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-252-SA5A-SB-4.0-5.0

LLI Sample # SW 6235710
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 15:35

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6316 SDG#: DX063-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-252-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-252-SA5A-SB-4.0-5.0

LLI Sample # SW 6235710
LLI Group # 1238355
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2011 15:35

Submitted: 03/22/2011 09:30
Reported: 04/14/2011 14:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6316 SDG#: DX063-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/06/2011 11:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11095162401B	04/05/2011 19:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238355
Reported: 04/14/11 at 02:56 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11095162401B	Sample number(s): 6235707-6235710								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11091001	Sample number(s): 6235707-6235710								
2378-TCDD	0.0208 J	0.0105	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0298 J	0.0107	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0182 J	0.0110	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0403 J	0.0114	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0388 J	0.0113	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.310 J	0.0181	5.00	ng/kg	95		70-140		
OCDD	0.510 J	0.0191	10.0	ng/kg	94		78-144		
2378-TCDF	0.0115 J	0.00910	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0287 J	0.00540	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0800 J	0.00560	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0878 J	0.0138	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0723 J	0.0124	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0760 J	0.0171	5.00	ng/kg	91		78-130		
234678-HxCDF	0.170 J	0.0137	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.442 J	0.0102	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0789 J	0.0158	5.00	ng/kg	92		78-138		
OCDF	0.345 J	0.0201	10.0	ng/kg	90		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11095162401B	Sample number(s): 6235707-6235710					BKG: P235704			
Moisture Content by 160.3						13.7	13.2	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238355
Reported: 04/14/11 at 02:56 PM

Surrogate Quality Control

Batch number: 11091001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6235707	61	67	52	66	65	60
6235708	73	86	72	84	80	69
6235709	64	69	50	64	65	60
6235710	75	75	40	58	74	68
Blank	79	92	90	96	88	78
OPR	75	82	80	85	81	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6235707	72	54	49	76	66	63
6235708	88	65	56	96	84	79
6235709	66	52	45	78	66	65
6235710	60	60	51	86	76	63
Blank	104	75	65	109	93	90
OPR	91	73	68	92	80	81
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6235707	68	66	65	61	63	72
6235708	83	79	79	72	79	90
6235709	66	67	63	55	65	71
6235710	75	76	70	65	74	83
Blank	95	90	91	85	84	99
OPR	81	81	80	76	78	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1238355 Sample# 6235707-10

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS								Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 8550 (10%)	VOCs@EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-161-SA5A-SB-4.0-5.0	3.21.11	0854	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	
SL-161-SA5A-SB-4.5	3.21.11	0850	SOIL	NONE	5-Encores										X	X	X									
SL-161-SA5A-SB-7.5-8.5	3.21.11	0903	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	
SL-161-SA5A-SB-8.0	3.21.11	0859	SOIL	NONE	5-Encores										X	X	X									
SL-163-SA5A-SB-4.0-5.0	3.21.11	1149	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-163-SA5A-SB-4.5	3.21.11	1145	SOIL	NONE	5-Encores										X	X	X									
SL-252-SA5A-SB-4.0-5.0	3.21.11	1535	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	
SL-252-SA5A-SB-4.5	3.21.11	1530	SOIL	NONE	5-Encores										X	X	X									
TB-032111	3.21.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X									TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/21/2011 / 17:00 — Received for Laboratory by: (*Signature*) Gary Gerlach 3/22/11 930

Received by: (*Signature*) — Date/Time — Airbill No.(s): 795 1432 3725

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 15, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/23/2011
Group Number: 1238576
SDG: DX063
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-231-SA5A-SB-2.0-3.0 Soil	6236858
SL-181-SA5A-SB-4.0-5.0 Soil	6236859
SL-180-SA5A-SB-4.0-5.0 Soil	6236860
EB08-SA5A-032211 Water	6236861

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-231-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5A-SB-2.0-3.0

LLI Sample # SW 6236858
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 11:03

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6317 SDG#: DX063-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-231-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5A-SB-2.0-3.0

LLI Sample # SW 6236858
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 11:03

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6317 SDG#: DX063-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0150 JBQ	0.0145	1.13	1
11031	12378-PeCDD	40321-76-4	0.0826 JBQ	0.0179	5.66	1
11031	123478-HxCDD	39227-28-6	0.0526 JBQ	0.0210	5.66	1
11031	123678-HxCDD	57653-85-7	0.125 JB	0.0217	5.66	1
11031	123789-HxCDD	19408-74-3	0.130 JBQ	0.0203	5.66	1
11031	1234678-HpCDD	35822-46-9	1.60 JB	0.0320	5.66	1
11031	OCDD	3268-87-9	12.2 B	0.0320	11.3	1
11031	2378-TCDF	51207-31-9	0.0525 JBQ	0.0223	1.13	1
11031	12378-PeCDF	57117-41-6	0.461 JB	0.0169	5.66	1
11031	23478-PeCDF	57117-31-4	0.201 JB	0.0163	5.66	1
11031	123478-HxCDF	70648-26-9	0.241 JB	0.0216	5.66	1
11031	123678-HxCDF	57117-44-9	0.105 JB	0.0183	5.66	1
11031	123789-HxCDF	72918-21-9	0.0770 JB	0.0213	5.66	1
11031	234678-HxCDF	60851-34-5	0.162 JB	0.0174	5.66	1
11031	1234678-HpCDF	67562-39-4	0.450 JB	0.0168	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0591 JB	0.0251	5.66	1
11031	OCDF	39001-02-0	0.552 JB	0.0302	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	92	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-231-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5A-SB-2.0-3.0

LLI Sample # SW 6236858
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 11:03

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6317 SDG#: DX063-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-231-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5A-SB-2.0-3.0

LLI Sample # SW 6236858
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 11:03

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6317 SDG#: DX063-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/06/2011 12:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-181-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SB-4.0-5.0

LLI Sample # SW 6236859
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:13

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6318 SDG#: DX063-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	18.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-181-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SB-4.0-5.0

LLI Sample # SW 6236859
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:13

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6318 SDG#: DX063-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0133	U	0.0133	1.22	1
11031	12378-PeCDD	40321-76-4	0.156	JBQ	0.0269	6.12	1
11031	123478-HxCDD	39227-28-6	0.0595	U	0.0595	6.12	1
11031	123678-HxCDD	57653-85-7	0.527	JB	0.0520	6.12	1
11031	123789-HxCDD	19408-74-3	0.573	JB	0.0367	6.12	1
11031	1234678-HpCDD	35822-46-9	7.37	B	0.0404	6.12	1
11031	OCDD	3268-87-9	76.1	B	0.0643	12.2	1
11031	2378-TCDF	51207-31-9	0.182	JB	0.0388	1.22	1
11031	12378-PeCDF	57117-41-6	0.0202	U	0.0202	6.12	1
11031	23478-PeCDF	57117-31-4	0.340	JB	0.0229	6.12	1
11031	123478-HxCDF	70648-26-9	0.125	JBQ	0.0618	6.12	1
11031	123678-HxCDF	57117-44-9	0.217	JB	0.0491	6.12	1
11031	123789-HxCDF	72918-21-9	0.469	JB	0.0280	6.12	1
11031	234678-HxCDF	60851-34-5	0.220	JB	0.0251	6.12	1
11031	1234678-HpCDF	67562-39-4	1.52	JB	0.0410	6.12	1
11031	1234789-HpCDF	55673-89-7	0.189	JB	0.0279	6.12	1
11031	OCDF	39001-02-0	6.36	JB	0.0459	12.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	53	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	48	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-181-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SB-4.0-5.0

LLI Sample # SW 6236859
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:13

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6318 SDG#: DX063-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-181-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5A-SB-4.0-5.0

LLI Sample # SW 6236859
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:13

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6318 SDG#: DX063-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/06/2011 13:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SB-4.0-5.0

LLI Sample # SW 6236860
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 13:49

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6319 SDG#: DX063-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-180-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SB-4.0-5.0

LLI Sample # SW 6236860
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 13:49

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6319 SDG#: DX063-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0144	U	0.0144	1.16	1
11031	12378-PeCDD	40321-76-4	0.0311	JB	0.0155	5.81	1
11031	123478-HxCDD	39227-28-6	0.0181	U	0.0181	5.81	1
11031	123678-HxCDD	57653-85-7	0.116	JBQ	0.0186	5.81	1
11031	123789-HxCDD	19408-74-3	0.384	JB	0.0173	5.81	1
11031	1234678-HpCDD	35822-46-9	0.470	JB	0.0228	5.81	1
11031	OCDD	3268-87-9	1.60	JB	0.0299	11.6	1
11031	2378-TCDF	51207-31-9	0.0158	JBQ	0.0126	1.16	1
11031	12378-PeCDF	57117-41-6	0.0627	JB	0.00814	5.81	1
11031	23478-PeCDF	57117-31-4	0.0903	JBQ	0.00791	5.81	1
11031	123478-HxCDF	70648-26-9	0.0805	JB	0.0185	5.81	1
11031	123678-HxCDF	57117-44-9	0.0603	JBQ	0.0169	5.81	1
11031	123789-HxCDF	72918-21-9	0.434	JB	0.0209	5.81	1
11031	234678-HxCDF	60851-34-5	0.150	JB	0.0173	5.81	1
11031	1234678-HpCDF	67562-39-4	0.375	JB	0.0115	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0692	JB	0.0200	5.81	1
11031	OCDF	39001-02-0	0.352	JB	0.0299	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SB-4.0-5.0

LLI Sample # SW 6236860
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 13:49

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6319 SDG#: DX063-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-180-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5A-SB-4.0-5.0

LLI Sample # SW 6236860
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 13:49

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6319 SDG#: DX063-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11091001	04/06/2011 19:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11091001	04/01/2011 12:55	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB08-SA5A-032211 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5A-032211

LLI Sample # WW 6236861
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:30

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6320 SDG#: DX063-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.238	JQ	0.229	2.01	1
10915	12378-PeCDD	40321-76-4	0.945	JBQ	0.299	10.1	1
10915	123478-HxCDD	39227-28-6	0.850	JBQ	0.295	10.1	1
10915	123678-HxCDD	57653-85-7	0.635	JBQ	0.292	10.1	1
10915	123789-HxCDD	19408-74-3	0.793	JB	0.278	10.1	1
10915	1234678-HpCDD	35822-46-9	3.09	JB	0.349	10.1	1
10915	OCDD	3268-87-9	5.66	JBQ	0.352	20.1	1
10915	2378-TCDF	51207-31-9	0.195	U	0.195	2.01	1
10915	12378-PeCDF	57117-41-6	0.643	JBQ	0.129	10.1	1
10915	23478-PeCDF	57117-31-4	0.902	JBQ	0.119	10.1	1
10915	123478-HxCDF	70648-26-9	1.05	JBQ	0.290	10.1	1
10915	123678-HxCDF	57117-44-9	0.766	JBQ	0.218	10.1	1
10915	123789-HxCDF	72918-21-9	1.07	JBQ	0.147	10.1	1
10915	234678-HxCDF	60851-34-5	0.933	JB	0.156	10.1	1
10915	1234678-HpCDF	67562-39-4	1.93	JB	0.213	10.1	1
10915	1234789-HpCDF	55673-89-7	0.978	JB	0.195	10.1	1
10915	OCDF	39001-02-0	2.54	JBQ	0.395	20.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	53	25 - 164
13C12-12378-PeCDD	49	25 - 181
13C12-123478-HxCDD	44	32 - 141
13C12-123678-HxCDD	45	28 - 130
13C12-123789-HxCDD	47	28 - 130
13C12-1234678-HpCDD	46	23 - 140
13C12-OCDD	40	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	46	24 - 185
13C12-23478-PeCDF	47	21 - 178
13C12-123478-HxCDF	26	26 - 152
13C12-123678-HxCDF	33	26 - 123
13C12-234678-HxCDF	44	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	33	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB08-SA5A-032211 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5A-032211

LLI Sample # WW 6236861
LLI Group # 1238576
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/22/2011 15:30

Submitted: 03/23/2011 09:00
Reported: 04/15/2011 08:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6320 SDG#: DX063-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11096001	04/08/2011 10:57	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11096001	04/06/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238576
Reported: 04/15/11 at 08:27 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11090162401A	Sample number(s): 6236858								
Moisture Content by 160.3					100		80-120		
Batch number: 11101162401A	Sample number(s): 6236859-6236860								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11091001	Sample number(s): 6236858-6236860								
2378-TCDD	0.0208 J	0.0105	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0298 J	0.0107	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0182 J	0.0110	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0403 J	0.0114	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0388 J	0.0113	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.310 J	0.0181	5.00	ng/kg	95		70-140		
OCDD	0.510 J	0.0191	10.0	ng/kg	94		78-144		
2378-TCDF	0.0115 J	0.00910	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0287 J	0.00540	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0800 J	0.00560	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0878 J	0.0138	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0723 J	0.0124	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0760 J	0.0171	5.00	ng/kg	91		78-130		
234678-HxCDF	0.170 J	0.0137	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.442 J	0.0102	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0789 J	0.0158	5.00	ng/kg	92		78-138		
OCDF	0.345 J	0.0201	10.0	ng/kg	90		63-170		
Batch number: 11096001	Sample number(s): 6236861								
2378-TCDD	0.284 U	0.284	2.00	pg/l	100		67-158		
12378-PeCDD	1.24 J	0.296	10.0	pg/l	103		70-142		
123478-HxCDD	0.912 J	0.232	10.0	pg/l	103		70-164		
123678-HxCDD	1.14 J	0.237	10.0	pg/l	103		76-134		
123789-HxCDD	0.734 J	0.227	10.0	pg/l	102		64-162		
1234678-HpCDD	2.46 J	0.299	10.0	pg/l	101		70-140		
OCDD	5.27 J	0.353	20.0	pg/l	103		78-144		
2378-TCDF	0.281 J	0.269	2.00	pg/l	102		75-158		
12378-PeCDF	0.902 J	0.163	10.0	pg/l	97		80-134		
23478-PeCDF	1.07 J	0.159	10.0	pg/l	100		68-160		
123478-HxCDF	0.954 J	0.197	10.0	pg/l	100		72-134		
123678-HxCDF	0.764 J	0.172	10.0	pg/l	101		84-130		
123789-HxCDF	0.993 J	0.172	10.0	pg/l	98		78-130		
234678-HxCDF	0.783 J	0.153	10.0	pg/l	100		70-156		
1234678-HpCDF	1.36 J	0.149	10.0	pg/l	102		82-122		
1234789-HpCDF	1.23 J	0.158	10.0	pg/l	102		78-138		
OCDF	2.34 J	0.424	20.0	pg/l	101		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238576
Reported: 04/15/11 at 08:27 AM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11090162401A	Sample number(s): 6236858					BKG: P237969			
Moisture Content by 160.3						15.5	15.6	1	20
Batch number: 11101162401A	Sample number(s): 6236859-6236860					BKG: P239176			
Moisture Content by 160.3						12.0	11.0	9	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11091001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6236858	87	93	75	88	88	78
6236859	83	71	35	45	84	81
6236860	80	86	80	88	81	73
Blank	79	92	90	96	88	78
OPR	75	82	80	85	81	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6236858	88	65	52	96	88	86
6236859	40	65	40	86	79	53
6236860	94	62	51	97	83	81
Blank	104	75	65	109	93	90
OPR	91	73	68	92	80	81
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6236858	86	85	78	68	92	96
6236859	64	83	64	48	88	84
6236860	82	81	76	69	82	90
Blank	95	90	91	85	84	99
OPR	81	81	80	76	78	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238576
Reported: 04/15/11 at 08:27 AM

Surrogate Quality Control

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11096001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6236861	53	47	26	33	44	53
Blank	82	71	59	65	72	73
OPR	81	75	54	64	79	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6236861	33	43	38	89	49	44
Blank	62	68	62	93	79	74
OPR	65	78	75	88	81	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6236861	45	47	46	40	54	46
Blank	76	77	72	66	78	75
OPR	78	83	82	80	79	78
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 / 1238576 / 623658-61

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
																											Amended COC
SL-231-SA5A-SB-2.0-3.0	03.22.11	1103	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-231-SA5A-SB-2.5	03.22.11	1058	SOIL	NONE	4-Encores										X	X											
SL-181-SA5A-SB-4.0-5.0	03.22.11	1513	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-181-SA5A-SB-4.5	03.22.11	1508	SOIL	NONE	5-Encores										X	X	X										
SL-180-SA5A-SB-4.0-5.0	03.22.11	1349	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-180-SA5A-SB-4.5	03.22.11	1345	SOIL	NONE	5-Encores										X	X	X										
EB08-SA5A-032211	03.22.11	1530	WATER	NONE	5-1L amber bottles			X	X	X																	1 extra liter for backup
EB08-SA5A-032211	03.22.11	1530	WATER	HCl	6-40mL VOA vials										X	X											
EB08-SA5A-032211	03.22.11	1530	WATER	NONE	1-500mL poly		X				X	X	X														
EB08-SA5A-032211	03.22.11	1530	WATER	HNO3	1-500mL poly	X																					
TB-032211	03.22.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	**Date/Time** 03/22/2011 / 17:00	**Received for Laboratory by: (*Signature*)**	**Laboratory:** Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)** 8695 1432 3736	

Natalie R. Luciano

From: Crites, Ann Marie [CritesAM@cdm.com]
Sent: Wednesday, March 23, 2011 4:39 PM
To: Nicole Maljovec; Natalie R. Luciano
Cc: Bloisa, Peggy
Subject: FW: Santa Susana COC 3/22/11
Attachments: COC_subsurface_samples_03_22_11REVISED.xls

Heads-up! For the equipment blank EB08-SA5A-032211, I checked the TPH/GRO analysis box. This is not needed on these VOCs since it is the primary suite. I will ship the secondary suite today with that analysis checked. Attached is the revised COC. Thanks Peggy, for catching that.

From: Crites, Ann Marie
Sent: Tuesday, March 22, 2011 4:27 PM
To: Bloisa, Peggy; Burgesser, Todd; Laura Rainey; Nicole Maljovec; SAEnvEntry; Zakowski, Cherie
Subject: Santa Susana COC 3/22/11

Primary equipment blank in this shipment. As soon as we get our bottles and Encores tomorrow, we will collect a DUP and MS/MSD, as well as a Secondary equipment blank. Expect at least 3 coolers on Thursday...

Nothing else to report today.

Ann Marie Crites|Environmental Scientist
CDM | 60 Port Blvd, Ste 201
Libby, Montana 59923
critesam@cdm.com | Cell: 406-422-8139
Please consider the environment before printing this e-mail.

acct# 13013 Cp# 1238576 sample# 6236858-61

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 8850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $ ^	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-231-SA5A-SB-2.0-3.0	03.22.11	1103	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-231-SA5A-SB-2.5	03.22.11	1058	SOIL	NONE	4-Encores										X	X											
SL-181-SA5A-SB-4.0-5.0	03.22.11	1513	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-181-SA5A-SB-4.5	03.22.11	1508	SOIL	NONE	5-Encores										X	X	X										
SL-180-SA5A-SB-4.0-5.0	03.22.11	1349	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-180-SA5A-SB-4.5	03.22.11	1345	SOIL	NONE	5-Encores										X	X	X										
EB08-SA5A-032211	03.22.11	1530	WATER	NONE	5-1L amber bottles			X X	X	X																	1 extra liter for backup
EB08-SA5A-032211	03.22.11	1530	WATER	HCl	6-40mL VOA vials										X	X	X										
EB08-SA5A-032211	03.22.11	1530	WATER	NONE	1-500mL poly		X				X	X	X														
EB08-SA5A-032211	03.22.11	1530	WATER	HNO3	1-500mL poly	X																					
TB-032211	03.22.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/22/2011 / 17:00

Received for Laboratory by: (*Signature*) 3/23/11 900

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8695 1432 3736

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 15, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/24/2011
Group Number: 1238732
SDG: DX064
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-239-SA5A-SB-4.0-5.0 Soil	6237977
SL-240-SA5A-SB-4.0-5.0 Soil	6237978
SL-240-SA5A-SB-9.0-10.0 Soil	6237979
SL-197-SA5A-SB-4.0-5.0 Soil	6237980
SL-197-SA5A-SB-8.0-9.0 Soil	6237981
SL-198-SA5A-SB-3.0-4.0 Soil	6237982
SL-200-SA5A-SB-4.0-5.0 Soil	6237983

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-239-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-239-SA5A-SB-4.0-5.0

LLI Sample # SW 6237977
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 09:34

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6401 SDG#: DX064-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-239-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-239-SA5A-SB-4.0-5.0

LLI Sample # SW 6237977
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 09:34

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6401 SDG#: DX064-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0155	U	0.0155	1.08	1
11031	12378-PeCDD	40321-76-4	0.0148	U	0.0148	5.42	1
11031	123478-HxCDD	39227-28-6	0.0175	JBQ	0.0136	5.42	1
11031	123678-HxCDD	57653-85-7	0.0362	JBQ	0.0140	5.42	1
11031	123789-HxCDD	19408-74-3	0.0417	JB	0.0130	5.42	1
11031	1234678-HpCDD	35822-46-9	0.220	JBQ	0.0254	5.42	1
11031	OCDD	3268-87-9	0.771	JB	0.0473	10.8	1
11031	2378-TCDF	51207-31-9	0.0108	JBQ	0.0104	1.08	1
11031	12378-PeCDF	57117-41-6	0.0209	JB	0.00705	5.42	1
11031	23478-PeCDF	57117-31-4	0.0692	JB	0.00651	5.42	1
11031	123478-HxCDF	70648-26-9	0.0232	JB	0.0115	5.42	1
11031	123678-HxCDF	57117-44-9	0.0219	JBQ	0.00879	5.42	1
11031	123789-HxCDF	72918-21-9	0.0544	JB	0.0102	5.42	1
11031	234678-HxCDF	60851-34-5	0.0655	JB	0.00868	5.42	1
11031	1234678-HpCDF	67562-39-4	0.152	JB	0.00857	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0392	JB	0.0112	5.42	1
11031	OCDF	39001-02-0	0.136	JB	0.0198	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-239-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-239-SA5A-SB-4.0-5.0

LLI Sample # SW 6237977
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 09:34

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6401 SDG#: DX064-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-239-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-239-SA5A-SB-4.0-5.0

LLI Sample # SW 6237977
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 09:34

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6401 SDG#: DX064-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/07/2011 18:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-240-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-4.0-5.0

LLI Sample # SW 6237978
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 10:55

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6402 SDG#: DX064-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-240-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-4.0-5.0

LLI Sample # SW 6237978
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 10:55

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6402 SDG#: DX064-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0152 U	0.0152	1.11	1
11031	12378-PeCDD	40321-76-4	0.0709 JBQ	0.0138	5.57	1
11031	123478-HxCDD	39227-28-6	0.0279 JBQ	0.0162	5.57	1
11031	123678-HxCDD	57653-85-7	0.0771 JB	0.0167	5.57	1
11031	123789-HxCDD	19408-74-3	0.123 JB	0.0157	5.57	1
11031	1234678-HpCDD	35822-46-9	0.274 JB	0.0250	5.57	1
11031	OCDD	3268-87-9	2.37 JB	0.0494	11.1	1
11031	2378-TCDF	51207-31-9	0.0191 JBQ	0.0111	1.11	1
11031	12378-PeCDF	57117-41-6	0.0997 JB	0.00747	5.57	1
11031	23478-PeCDF	57117-31-4	0.102 JBQ	0.00725	5.57	1
11031	123478-HxCDF	70648-26-9	0.0587 JBQ	0.0113	5.57	1
11031	123678-HxCDF	57117-44-9	0.0569 JB	0.00914	5.57	1
11031	123789-HxCDF	72918-21-9	0.112 JB	0.0103	5.57	1
11031	234678-HxCDF	60851-34-5	0.0968 JB	0.00858	5.57	1
11031	1234678-HpCDF	67562-39-4	0.151 JB	0.00825	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0474 JB	0.0114	5.57	1
11031	OCDF	39001-02-0	0.175 JB	0.0172	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-240-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-4.0-5.0

LLI Sample # SW 6237978
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 10:55

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6402 SDG#: DX064-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-240-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-4.0-5.0

LLI Sample # SW 6237978
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 10:55

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6402 SDG#: DX064-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/07/2011 19:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-240-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-9.0-10.0

LLI Sample # SW 6237979
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 11:03

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6403 SDG#: DX064-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-240-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-9.0-10.0

LLI Sample # SW 6237979
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 11:03

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6403 SDG#: DX064-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0508 J	0.0149	1.18	1
11031	12378-PeCDD	40321-76-4	0.0834 JBQ	0.0167	5.92	1
11031	123478-HxCDD	39227-28-6	0.0140 U	0.0140	5.92	1
11031	123678-HxCDD	57653-85-7	0.0555 JBQ	0.0143	5.92	1
11031	123789-HxCDD	19408-74-3	0.0505 JBQ	0.0131	5.92	1
11031	1234678-HpCDD	35822-46-9	0.283 JB	0.0232	5.92	1
11031	OCDD	3268-87-9	1.36 JB	0.0475	11.8	1
11031	2378-TCDF	51207-31-9	0.0261 JB	0.0125	1.18	1
11031	12378-PeCDF	57117-41-6	0.115 JB	0.00746	5.92	1
11031	23478-PeCDF	57117-31-4	0.134 JB	0.00698	5.92	1
11031	123478-HxCDF	70648-26-9	0.0548 JB	0.0129	5.92	1
11031	123678-HxCDF	57117-44-9	0.0803 JB	0.0104	5.92	1
11031	123789-HxCDF	72918-21-9	0.0519 JB	0.0108	5.92	1
11031	234678-HxCDF	60851-34-5	0.0837 JB	0.00935	5.92	1
11031	1234678-HpCDF	67562-39-4	0.146 JB	0.0107	5.92	1
11031	1234789-HpCDF	55673-89-7	0.0323 JB	0.0135	5.92	1
11031	OCDF	39001-02-0	0.171 JB	0.0191	11.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-240-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-9.0-10.0

LLI Sample # SW 6237979
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 11:03

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6403 SDG#: DX064-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-240-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5A-SB-9.0-10.0

LLI Sample # SW 6237979
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 11:03

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6403 SDG#: DX064-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/07/2011 20:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-197-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-4.0-5.0

LLI Sample # SW 6237980
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:14

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6404 SDG#: DX064-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-197-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-4.0-5.0

LLI Sample # SW 6237980
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:14

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6404 SDG#: DX064-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0134 U	0.0134	1.11	1
11031	12378-PeCDD	40321-76-4	0.0121 U	0.0121	5.57	1
11031	123478-HxCDD	39227-28-6	0.0139 JBQ	0.0118	5.57	1
11031	123678-HxCDD	57653-85-7	0.0352 JBQ	0.0121	5.57	1
11031	123789-HxCDD	19408-74-3	0.0399 JBQ	0.0116	5.57	1
11031	1234678-HpCDD	35822-46-9	0.202 JB	0.0197	5.57	1
11031	OCDD	3268-87-9	0.700 JB	0.0362	11.1	1
11031	2378-TCDF	51207-31-9	0.0101 U	0.0101	1.11	1
11031	12378-PeCDF	57117-41-6	0.0197 JBQ	0.00557	5.57	1
11031	23478-PeCDF	57117-31-4	0.0615 JBQ	0.00535	5.57	1
11031	123478-HxCDF	70648-26-9	0.0213 JBQ	0.00802	5.57	1
11031	123678-HxCDF	57117-44-9	0.0202 JB	0.00635	5.57	1
11031	123789-HxCDF	72918-21-9	0.0316 JBQ	0.00768	5.57	1
11031	234678-HxCDF	60851-34-5	0.0536 JB	0.00646	5.57	1
11031	1234678-HpCDF	67562-39-4	0.121 JB	0.00679	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0259 JB	0.00958	5.57	1
11031	OCDF	39001-02-0	0.134 JB	0.0174	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Sample Description: **SL-197-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-4.0-5.0

LLI Sample # SW 6237980
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:14

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6404 SDG#: DX064-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-197-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-4.0-5.0

LLI Sample # SW 6237980
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:14

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X6404 SDG#: DX064-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/07/2011 21:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-197-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-8.0-9.0

LLI Sample # SW 6237981
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:23

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X6405 SDG#: DX064-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-197-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-8.0-9.0

LLI Sample # SW 6237981
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:23

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6405 SDG#: DX064-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0274	JQ	0.0137	1.19	1
11031	12378-PeCDD	40321-76-4	0.0387	JB	0.0196	5.94	1
11031	123478-HxCDD	39227-28-6	0.0216	U	0.0216	5.94	1
11031	123678-HxCDD	57653-85-7	0.0343	JBQ	0.0221	5.94	1
11031	123789-HxCDD	19408-74-3	0.0818	JB	0.0220	5.94	1
11031	1234678-HpCDD	35822-46-9	0.394	JB	0.0264	5.94	1
11031	OCDD	3268-87-9	0.743	JB	0.0397	11.9	1
11031	2378-TCDF	51207-31-9	0.0112	U	0.0112	1.19	1
11031	12378-PeCDF	57117-41-6	0.0156	JB	0.00629	5.94	1
11031	23478-PeCDF	57117-31-4	0.0588	JB	0.00641	5.94	1
11031	123478-HxCDF	70648-26-9	0.0197	JBQ	0.0102	5.94	1
11031	123678-HxCDF	57117-44-9	0.0356	JB	0.00760	5.94	1
11031	123789-HxCDF	72918-21-9	0.0282	JBQ	0.00819	5.94	1
11031	234678-HxCDF	60851-34-5	0.0525	JBQ	0.00689	5.94	1
11031	1234678-HpCDF	67562-39-4	0.114	JB	0.00748	5.94	1
11031	1234789-HpCDF	55673-89-7	0.0302	JBQ	0.00986	5.94	1
11031	OCDF	39001-02-0	0.163	JBQ	0.0175	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	96	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	105	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-197-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-8.0-9.0

LLI Sample # SW 6237981
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:23

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6405 SDG#: DX064-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-197-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5A-SB-8.0-9.0

LLI Sample # SW 6237981
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 12:23

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6405 SDG#: DX064-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/07/2011 22:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-198-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5A-SB-3.0-4.0

LLI Sample # SW 6237982
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:24

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6406 SDG#: DX064-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-198-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5A-SB-3.0-4.0

LLI Sample # SW 6237982
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:24

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6406 SDG#: DX064-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0152 J	0.0140	1.12	1
11031	12378-PeCDD	40321-76-4	0.0724 JBQ	0.0149	5.61	1
11031	123478-HxCDD	39227-28-6	0.0224 JBQ	0.0180	5.61	1
11031	123678-HxCDD	57653-85-7	0.108 JB	0.0185	5.61	1
11031	123789-HxCDD	19408-74-3	0.229 JB	0.0167	5.61	1
11031	1234678-HpCDD	35822-46-9	0.227 JBQ	0.0185	5.61	1
11031	OCDD	3268-87-9	0.778 JB	0.0391	11.2	1
11031	2378-TCDF	51207-31-9	0.0256 JB	0.0110	1.12	1
11031	12378-PeCDF	57117-41-6	0.106 JB	0.00696	5.61	1
11031	23478-PeCDF	57117-31-4	0.102 JB	0.00685	5.61	1
11031	123478-HxCDF	70648-26-9	0.0701 JB	0.0150	5.61	1
11031	123678-HxCDF	57117-44-9	0.0757 JBQ	0.0103	5.61	1
11031	123789-HxCDF	72918-21-9	0.0811 JB	0.00976	5.61	1
11031	234678-HxCDF	60851-34-5	0.0734 JBQ	0.00808	5.61	1
11031	1234678-HpCDF	67562-39-4	0.0782 JBQ	0.00741	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0359 JBQ	0.00808	5.61	1
11031	OCDF	39001-02-0	0.146 JB	0.0176	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-198-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5A-SB-3.0-4.0

LLI Sample # SW 6237982
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:24

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6406 SDG#: DX064-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-198-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5A-SB-3.0-4.0

LLI Sample # SW 6237982
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 14:24

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6406 SDG#: DX064-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/07/2011 23:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-200-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5A-SB-4.0-5.0

LLI Sample # SW 6237983
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 15:49

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6407 SDG#: DX064-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-200-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5A-SB-4.0-5.0

LLI Sample # SW 6237983
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 15:49

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6407 SDG#: DX064-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0654 J	0.0138	1.10	1
11031	12378-PeCDD	40321-76-4	0.112 JB	0.0151	5.49	1
11031	123478-HxCDD	39227-28-6	0.0599 JBQ	0.0132	5.49	1
11031	123678-HxCDD	57653-85-7	0.0458 JBQ	0.0133	5.49	1
11031	123789-HxCDD	19408-74-3	0.0628 JB	0.0120	5.49	1
11031	1234678-HpCDD	35822-46-9	0.183 JB	0.0189	5.49	1
11031	OCDD	3268-87-9	0.516 JB	0.0376	11.0	1
11031	2378-TCDF	51207-31-9	0.0534 JBQ	0.0116	1.10	1
11031	12378-PeCDF	57117-41-6	0.163 JBQ	0.00747	5.49	1
11031	23478-PeCDF	57117-31-4	0.155 JB	0.00769	5.49	1
11031	123478-HxCDF	70648-26-9	0.0776 JBQ	0.0135	5.49	1
11031	123678-HxCDF	57117-44-9	0.0614 JB	0.00967	5.49	1
11031	123789-HxCDF	72918-21-9	0.0374 JB	0.00945	5.49	1
11031	234678-HxCDF	60851-34-5	0.0807 JBQ	0.00791	5.49	1
11031	1234678-HpCDF	67562-39-4	0.112 JB	0.00934	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0466 JBQ	0.0111	5.49	1
11031	OCDF	39001-02-0	0.158 JBQ	0.0198	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-200-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5A-SB-4.0-5.0

LLI Sample # SW 6237983
LLI Group # 1238732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/23/2011 15:49

Submitted: 03/24/2011 09:45
Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6407 SDG#: DX064-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-200-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5A-SB-4.0-5.0

LLI Sample # SW 6237983
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Reported: 04/15/2011 08:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6407 SDG#: DX064-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/08/2011 00:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238732
Reported: 04/15/11 at 08:47 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11090162401A	Sample number(s): 6237977-6237983								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11094001	Sample number(s): 6237977-6237983								
2378-TCDD	0.0143 U	0.0143	1.00	ng/kg	109		67-158		
12378-PeCDD	0.0313 J	0.0144	5.00	ng/kg	109		70-142		
123478-HxCDD	0.0177 J	0.0147	5.00	ng/kg	108		70-164		
123678-HxCDD	0.0207 J	0.0155	5.00	ng/kg	107		76-134		
123789-HxCDD	0.0266 J	0.0143	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.231 J	0.0256	5.00	ng/kg	105		70-140		
OCDD	0.889 J	0.0464	10.0	ng/kg	103		78-144		
2378-TCDF	0.0202 J	0.0118	1.00	ng/kg	115		75-158		
12378-PeCDF	0.0280 J	0.00770	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0638 J	0.00740	5.00	ng/kg	105		68-160		
123478-HxCDF	0.0298 J	0.0127	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0271 J	0.0100	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0264 J	0.0109	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0678 J	0.00950	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.184 J	0.0103	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0521 J	0.0130	5.00	ng/kg	102		78-138		
OCDF	0.213 J	0.0190	10.0	ng/kg	101		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11090162401A	Sample number(s): 6237977-6237983					BKG: P237969			
Moisture Content by 160.3						15.5	15.6	1	20
Batch number: 11094001	Sample number(s): 6237977-6237983					UNSPK: P239187			
2378-TCDD	107	110	67-158	2	25				
12378-PeCDD	111	109	70-142	1	25				
123478-HxCDD	111	110	70-164	0	25				
123678-HxCDD	109	109	76-134	0	25				
123789-HxCDD	108	108	64-162	1	25				
1234678-HpCDD	96	96	70-140	0	25				
OCDD	47*	50*	78-144	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238732
Reported: 04/15/11 at 08:47 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	114	116	75-158	2	25				
12378-PeCDF	107	105	80-134	3	25				
23478-PeCDF	106	106	68-160	1	25				
123478-HxCDF	107	105	72-134	2	25				
123678-HxCDF	106	105	84-130	1	25				
123789-HxCDF	104	104	78-130	0	25				
234678-HxCDF	106	106	70-156	1	25				
1234678-HpCDF	102	102	82-122	1	25				
1234789-HpCDF	105	104	78-138	0	25				
OCDF	103	103	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11094001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6237977	68	78	58	72	73	67
6237978	72	79	58	72	73	69
6237979	75	83	58	73	78	74
6237980	72	91	68	85	86	79
6237981	83	92	56	77	84	78
6237982	77	82	42	61	78	70
6237983	78	81	44	63	78	71
Blank	73	73	55	69	72	68
MS	83	94	45	63	88	83
MSD	82	96	47	65	86	84
OPR	72	66	26	40	70	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6237977	79	68	67	88	77	74
6237978	82	68	66	85	78	73
6237979	82	74	72	92	82	80
6237980	97	78	74	91	91	89
6237981	90	78	74	105	96	89
6237982	69	71	69	95	86	76
6237983	73	69	63	93	84	75
Blank	77	70	69	93	75	73
MS	65	82	75	96	91	77
MSD	69	80	74	92	94	77
OPR	45	65	59	85	76	58
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238732
Reported: 04/15/11 at 08:47 AM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6237977	75	75	78	76	71	80
6237978	78	77	80	80	74	83
6237979	80	81	83	82	77	86
6237980	91	90	92	90	74	92
6237981	93	90	94	91	83	100
6237982	81	83	86	86	78	91
6237983	81	84	84	81	77	90
Blank	76	76	79	80	72	79
MS	84	88	87	84	86	96
MSD	86	88	87	83	83	96
OPR	69	78	78	79	68	79
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1238732 sample# 6237977-83

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-239-SA5A-SB-4.0-5.0	03.23.11	0934	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-239-SA5A-SB-4.5	03.23.11	0930	SOIL	NONE	4-Encores										X	X											
SL-240-SA5A-SB-4.0-5.0	03.23.11	1055	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-240-SA5A-SB-4.5	03.23.11	1051	SOIL	NONE	4-Encores										X	X											
SL-240-SA5A-SB-9.0-10.0	03.23.11	1103	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-197-SA5A-SB-4.0-5.0	03.23.11	1214	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-197-SA5A-SB-4.5	03.23.11	1210	SOIL	NONE	4-Encores										X	X											
SL-197-SA5A-SB-8.0-9.0	03.23.11	1223	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-198-SA5A-SB-3.0-4.0	03.23.11	1424	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-198-SA5A-SB-3.5	03.23.11	1420	SOIL	NONE	4-Encores										X	X											
SL-200-SA5A-SB-4.0-5.0	03.23.11	1549	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-200-SA5A-SB-4.5	03.23.11	1543	SOIL	NONE	4-Encores										X	X											
EB09-SA5A-032311	03.23.11	1430	WATER	NONE	5-1L amber bottles													X			X	X		X			1 extra liter for backup
EB09-SA5A-032311	03.23.11	1430	WATER	HCl	5-40mL VOA vials												X									X	
EB09-SA5A-032311	03.23.11	1430	WATER	NONE	4-40mL VOA vials														X						X		
EB09-SA5A-032311	03.23.11	1430	WATER	NONE	1-250mL glass															X							
EB09-SA5A-032311	03.23.11	1430	WATER	NaOH	1-500mL poly																		X				
TB-032311	03.23.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X											TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/23/2011 / 17:00

Received for Laboratory by: (*Signature*) — 3/24/11 945

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8695 1432 3747, ...3758

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

REVISED

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 05, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/25/2011
Group Number: 1238947
SDG: DE112
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-199-SA5A-SB-2.5-3.5 Soil	6239175
SL-223-SA5A-SB-4.0-5.0 Soil	6239176
SL-223-SA5A-SB-4.0-5.0MS Soil	6239177
SL-223-SA5A-SB-4.0-5.0MSD Soil	6239178
SL-223-SA5A-SB-4.0-5.0DUP Soil	6239179
SL-223-SA5A-SB-8.5-9.5 Soil	6239180
DUP10-SA5A-QC-032411 Soil	6239181
SL-226-SA5A-SB-4.0-5.0 Soil	6239182
SL-225-SA5A-SB-4.0-5.0 Soil	6239183
SL-224-SA5A-SB-4.0-5.0 Soil	6239184
TB-032411 Water	6239185

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

REVISED

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: **SL-199-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5A-SB-2.5-3.5

LLI Sample # SW 6239175
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 08:59

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-1 SDG#: DE112-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.7		1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.3		1.01
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		1.01
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		1.01
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		1.01
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		1.01
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		1.01
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.3		1.01
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		1.01
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		1.01
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		1.01
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		1.01
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		1.01
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		1.01
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		1.01
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		1.01
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3		1.01
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		1.01
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		1.01
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		1.01
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		1.01
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		1.01
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		1.01
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		1.01
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		1.01
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.3		1.01
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		1.01
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		1.01
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		1.01
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.3		1.01
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7		1.01
06192	Methylene Chloride	75-09-2	2.1	J	0.26	4.3		1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		1.01

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Sample Description: SL-199-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5A-SB-2.5-3.5

LLI Sample # SW 6239175
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 08:59

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-1 SDG#: DE112-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		1.01
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		1.01
06192	Toluene	108-88-3	0.09	U	0.09	4.3		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		1.01
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		1.01
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		1.01
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		1.01
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		1.01
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.81
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-199-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5A-SB-2.5-3.5

LLI Sample # SW 6239175
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 08:59

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-1 SDG#: DE112-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1

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Sample Description: SL-199-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5A-SB-2.5-3.5

LLI Sample # SW 6239175
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 08:59

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-1 SDG#: DE112-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,200		5.28	21.0		1
07914	Boron	7440-42-8	7.04		0.934	5.25		1
01650	Calcium	7440-70-2	2,250		6.43	21.0		1
01654	Iron	7439-89-6	23,500		4.94	21.0		1
01656	Lithium	7439-93-2	25.1		0.23	2.1		1
01657	Magnesium	7439-95-4	4,190		2.67	10.5		1
06958	Manganese	7439-96-5	153		0.0819	0.525		1
10145	Phosphorus	7723-14-0	95.2		0.588	10.5		1
01662	Potassium	7440-09-7	1,780		18.9	52.5		1
01667	Sodium	7440-23-5	188		39.2	105		1
07968	Strontium	7440-24-6	18.9		0.0651	0.525		1
06969	Tin	7440-31-5	3.49	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,020		0.399	1.05		1
10146	Zirconium	7440-67-7	0.882	U	0.882	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0920	J	0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.85		0.0840	0.420		2
06126	Barium	7440-39-3	60.5		0.113	0.420		2
06127	Beryllium	7440-41-7	0.776		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0420	U	0.0420	0.105		2

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Sample Description: SL-199-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5A-SB-2.5-3.5

LLI Sample # SW 6239175
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 08:59

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-1 SDG#: DE112-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	15.9	0.126	0.420		2
06132	Cobalt	7440-48-4	3.31	0.0210	0.105		2
06133	Copper	7440-50-8	5.42	0.0693	0.420		2
06135	Lead	7439-92-1	6.34	0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.308	0.0525	0.105		2
06139	Nickel	7440-02-0	8.46	0.105	0.420		2
06141	Selenium	7782-49-2	0.153 J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0240 J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.208	0.0315	0.105		2
06148	Vanadium	7440-62-2	32.0	0.0231	0.105		2
06149	Zinc	7440-66-6	43.1	0.588	3.15		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2	0.86	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	32.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38 J	0.21	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	555	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.88	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-199-SA5A-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-199-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5A-SB-2.5-3.5

LLI Sample # SW 6239175
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 08:59

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-1 SDG#: DE112-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 07:44	Angela D Sneeringer	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/28/2011 21:16	Sara E Johnson	23.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:08	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108423936	03/25/2011 17:08	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/04/2011 13:28	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 01:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 15:56	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 18:52	John P Hook	1
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 04:52	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 04:52	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 13:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 04:52	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 13:09	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-199-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5A-SB-2.5-3.5

LLI Sample # SW 6239175
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 08:59

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-1 SDG#: DE112-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 04:52	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201A	04/05/2011 12:08	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201A	04/11/2011 15:52	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11102243201A	04/13/2011 17:47	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201A	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201A	04/04/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101A	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401A	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-223-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239176
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.81
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.81
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.81
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.81
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.81
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.81
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.81
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.81
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.81
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7		0.81
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.81
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.81
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.81
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.81
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.81
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.81
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.81
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.81
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.81
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.81
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.81
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.81
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.81
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.81
06192	Methylene Chloride	75-09-2	3.5	J	0.22	3.7		0.81
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.81

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-223-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239176
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.81
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.81
06192	Toluene	108-88-3	0.08	J	0.07	3.7		0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.81
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.81
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.81
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.81
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.81
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.81
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.81
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		19.84
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	189	U	189	379		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-223-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239176
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1

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Sample Description: SL-223-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239176
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.66
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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Sample Description: SL-223-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239176
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	4.0		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	6.8		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	16		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	J	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: SL-223-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239176
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.60	22.3		1
07914	Boron	7440-42-8	7.72		0.992	5.57		1
01650	Calcium	7440-70-2	2,830		6.83	22.3		1
01654	Iron	7439-89-6	18,900		5.25	22.3		1
01656	Lithium	7439-93-2	22.5		0.25	2.2		1
01657	Magnesium	7439-95-4	4,100		2.83	11.1		1
06958	Manganese	7439-96-5	282		0.0869	0.557		1
10145	Phosphorus	7723-14-0	345		0.624	11.1		1
01662	Potassium	7440-09-7	3,630		20.1	55.7		1
01667	Sodium	7440-23-5	221		41.6	111		1
07968	Strontium	7440-24-6	17.7		0.0691	0.557		1
06969	Tin	7440-31-5	3.33	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,130		0.423	1.11		1
10146	Zirconium	7440-67-7	1.50	J	0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.12		0.0891	0.446		2
06126	Barium	7440-39-3	121		0.120	0.446		2
06127	Beryllium	7440-41-7	0.463		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.136		0.0446	0.111		2
06131	Chromium	7440-47-3	16.8		0.134	0.446		2
06132	Cobalt	7440-48-4	6.64		0.0223	0.111		2
06133	Copper	7440-50-8	9.86		0.0735	0.446		2
06135	Lead	7439-92-1	5.68		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.482		0.0557	0.111		2
06139	Nickel	7440-02-0	13.8		0.111	0.446		2
06141	Selenium	7782-49-2	0.118	J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0262	J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.242		0.0334	0.111		2
06148	Vanadium	7440-62-2	34.8		0.0245	0.111		2
06149	Zinc	7440-66-6	92.5		0.624	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1

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Sample Description: SL-223-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239176
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	480		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.28		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-223-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 04:00	Angela D Sneeringer	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/28/2011 21:36	Sara E Johnson	19.84
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:11	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108423936	03/25/2011 17:11	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/11/2011 12:05	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/04/2011 12:11	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/02/2011 19:58	Gregory J Drahovsky	1

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Sample Description: **SL-223-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239176
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34A	03/28/2011 20:29	Elizabeth J Marin	20.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:11	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 04:00	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 22:18	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 16:14	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 13:26	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/29/2011 20:32	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110870001A	03/28/2011 22:01	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/04/2011 19:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110870001A	03/28/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 18:33	John P Hook	1
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 12:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 12:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 12:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 04:34	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 12:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 12:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 12:55	Choon Y Tian	2

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Sample Description: **SL-223-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239176
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 12:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 04:34	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 12:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 12:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 04:34	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 12:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 04:34	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 12:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 12:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201A	04/05/2011 11:24	Nicole M Kepley	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11094495201A	04/05/2011 11:24	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201A	04/11/2011 14:44	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11102243201A	04/13/2011 17:54	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201B	03/29/2011 17:42	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201A	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201A	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201B	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101A	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401A	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: SL-223-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239177
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	310	6.5	7.8		0.85
06192	Benzene	71-43-2	22	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	21	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	26	0.32	3.9		0.85
06192	Bromodichloromethane	75-27-4	19	0.08	3.9		0.85
06192	Bromoform	75-25-2	16	0.39	3.9		0.85
06192	Bromomethane	74-83-9	20	0.24	3.9		0.85
06192	2-Butanone	78-93-3	220	1.2	7.8		0.85
06192	n-Butylbenzene	104-51-8	24	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	25	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	23	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	19	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	21	0.11	3.9		0.85
06192	Chloroethane	75-00-3	20	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.29	3.9		0.85
06192	Chloroform	67-66-3	21	0.12	3.9		0.85
06192	Chloromethane	74-87-3	18	0.32	3.9		0.85
06192	2-Chlorotoluene	95-49-8	22	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	21	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	23	0.48	4.8		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.68	3.9		0.85
06192	Dibromochloromethane	124-48-1	18	0.19	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	20	0.16	3.9		0.85
06192	Dibromomethane	74-95-3	20	0.23	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	20	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	21	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	21	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	15	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	21	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	20	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	23	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	22	0.18	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	22	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	21	0.16	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	20	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	20	0.16	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	22	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	19	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	18	0.16	3.9		0.85
06192	Ethylbenzene	100-41-4	22	0.06	3.9		0.85
06192	Freon 113	76-13-1	25	0.11	3.9		0.85
06192	Freon 133a	75-88-7	26	0.48	4.8		0.85
06192	Hexachlorobutadiene	87-68-3	21	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	140	1.6	7.8		0.85
06192	Isopropylbenzene	98-82-8	21	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	24	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.20	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	100	0.38	7.8		0.85
06192	Methylene Chloride	75-09-2	24	0.23	3.9		0.85
06192	n-Propylbenzene	103-65-1	25	0.07	3.9		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-223-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239177
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	20	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	19	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	21	0.22	3.9		0.85
06192	Tetrachloroethene	127-18-4	21	0.19	3.9		0.85
06192	Toluene	108-88-3	21	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	17	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	18	0.18	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	18	0.19	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	20	0.26	3.9		0.85
06192	Trichloroethene	79-01-6	21	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	22	0.28	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	21	0.32	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	23	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	23	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	19	0.19	3.9		0.85
06192	m+p-Xylene	179601-23-1	42	0.16	3.9		0.85
06192	o-Xylene	95-47-6	20	0.16	3.9		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	140	4.7	14		20.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	1,250	189	379		10

Reporting limits were raised due to interference from the sample matrix.

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,600	19	190		1
04688	Acenaphthylene	208-96-8	1,700	19	190		1
04688	Aniline	62-53-3	1,200	190	560		1
04688	Anthracene	120-12-7	1,700	19	190		1
04688	Benzidine	92-87-5	4,000	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,700	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,900	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800	19	190		1
04688	Benzoic acid	65-85-0	1,300	190	560		1
04688	Benzyl alcohol	100-51-6	1,500	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,600	19	190		1
04688	Carbazole	86-74-8	1,600	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,500	37	190		1
04688	4-Chloroaniline	106-47-8	670	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-223-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239177
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,200	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,700	19	190		1
04688	2-Chlorophenol	95-57-8	1,700	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	37	190		1
04688	Chrysene	218-01-9	1,800	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900	19	190		1
04688	Dibenzofuran	132-64-9	1,700	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190		1
04688	Diethylphthalate	84-66-2	1,500	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,500	37	190		1
04688	3,5-Dimethylphenol	108-68-9	1,600	37	190		1
04688	Dimethylphthalate	131-11-3	1,600	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	190	560		1
04688	2,4-Dinitrophenol	51-28-5	2,300	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,500	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,600	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,500	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	19	370		1
04688	Fluoranthene	206-44-0	1,600	19	190		1
04688	Fluorene	86-73-7	1,600	19	190		1
04688	Hexachlorobenzene	118-74-1	1,700	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,600	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,400	190	560		1
04688	Hexachloroethane	67-72-1	1,400	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	19	190		1
04688	Isophorone	78-59-1	1,400	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,500	37	190		1
04688	4-Methylphenol	106-44-5	1,600	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	19	190		1
04688	2-Nitroaniline	88-74-4	1,600	19	190		1
04688	3-Nitroaniline	99-09-2	1,500	37	190		1
04688	4-Nitroaniline	100-01-6	1,100	75	190		1
04688	Nitrobenzene	98-95-3	1,300	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,200	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,200	37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,200	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-223-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239177
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Di-n-octylphthalate	117-84-0	2,000	19	190		1
04688	Pentachlorophenol	87-86-5	1,500	190	560		1
04688	Phenanthrene	85-01-8	1,700	19	190		1
04688	Phenol	108-95-2	1,500	19	190		1
04688	Pyrene	129-00-0	2,000	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35	0.76	1.9		1
10138	Acenaphthylene	208-96-8	37	0.38	1.9		1
10138	Anthracene	120-12-7	36	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	41	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	39	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	43	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	40	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	38	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	41	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	43	6.8	20		1
10138	Chrysene	218-01-9	32	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	41	0.76	1.9		1
10138	Diethylphthalate	84-66-2	45	6.8	20		1
10138	Dimethylphthalate	131-11-3	42	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44	6.8	20		1
10138	Fluoranthene	206-44-0	39	0.76	1.9		1
10138	Fluorene	86-73-7	39	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	41	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	34	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	40	0.76	1.9		1
10138	Naphthalene	91-20-3	36	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	32	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	46	6.8	20		1
10138	Phenanthrene	85-01-8	37	0.76	1.9		1
10138	Pyrene	129-00-0	35	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.3	0.2	1		21.08
Explosives	**SW-846 8330A**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400	68	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-223-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239177
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,300		45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,400		45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,200		45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,400		45	140	10000000	1
10132	HMX	2691-41-0	2,200		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,100		45	140	10000000	1
10132	Nitroglycerin	55-63-0	52,000		910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	2,300		91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	2,400		110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	2,300		91	140	10000000	1
10132	PETN	78-11-5	61,000		910	2,700	10000000	1
10132	RDX	121-82-4	2,200		57	140	10000000	1
10132	Tetryl	479-45-8	1,800		70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,200		45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		45	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,600		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	16		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	18		0.44	1.9		1

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Sample Description: **SL-223-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239177
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MS

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262		37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268		11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)		n.a.	0.95		0.91	0.91		5
10199	EFH (C15-C20)		n.a.	3.3	J	2.3	6.8		5
10199	EFH (C21-C30)		n.a.	47		2.3	6.8		5
10199	EFH (C30 - C40)		n.a.	85		2.3	6.8		5
10199	EFH (C8-C11)		n.a.	1.2		1.1	1.1		5
GC Miscellaneous		**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol		64-17-5	2,200		110	570		1
10501	Isopropanol		67-63-0	2,300		110	570		1
10501	Methanol		67-56-1	2,200		110	570		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol		111-46-6	170		5.7	14		1
08283	Ethylene glycol		107-21-1	180		5.7	14		1
08283	Propylene glycol		57-55-6	180		5.7	14		1
Terphenyls		**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl		92-06-8	1.4	J	1.4	4.0		1
10318	o-Terphenyl		84-15-1	1.7	J	1.6	4.0		1
10318	p-Terphenyl		92-94-4	1.3	J	1.3	4.0		1
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum		7429-90-5	19,800		5.60	22.3		1
07914	Boron		7440-42-8	224		0.992	5.57		1
01650	Calcium		7440-70-2	3,500		6.83	22.3		1
01654	Iron		7439-89-6	22,700		5.25	22.3		1
01656	Lithium		7439-93-2	134		0.25	2.2		1
01657	Magnesium		7439-95-4	4,740		2.83	11.1		1
06958	Manganese		7439-96-5	438		0.0869	0.557		1
10145	Phosphorus		7723-14-0	513		0.624	11.1		1
01662	Potassium		7440-09-7	5,830		20.1	55.7		1
01667	Sodium		7440-23-5	1,320		41.6	111		1
07968	Strontium		7440-24-6	132		0.0691	0.557		1
06969	Tin		7440-31-5	394		1.11	11.1		1
06970	Titanium		7440-32-6	1,470		0.423	1.11		1
10146	Zirconium		7440-67-7	104		0.936	5.57		1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.426		0.0675	0.225		2

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Sample Description: SL-223-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239177
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.90	0.0900	0.450		2
06126	Barium	7440-39-3	164	0.122	0.450		2
06127	Beryllium	7440-41-7	1.48	0.0180	0.113		2
06128	Cadmium	7440-43-9	1.32	0.0450	0.113		2
06131	Chromium	7440-47-3	31.3	0.135	0.450		2
06132	Cobalt	7440-48-4	67.0	0.0225	0.113		2
06133	Copper	7440-50-8	24.9	0.0743	0.450		2
06135	Lead	7439-92-1	9.14	0.0117	0.225		2
06138	Molybdenum	7439-98-7	12.6	0.0563	0.113		2
06139	Nickel	7440-02-0	29.3	0.113	0.450		2
06141	Selenium	7782-49-2	2.39	0.0450	0.450		2
06142	Silver	7440-22-4	11.0	0.0135	0.113		2
06145	Thallium	7440-28-0	0.762	0.0338	0.113		2
06148	Vanadium	7440-62-2	47.7	0.0248	0.113		2
06149	Zinc	7440-66-6	84.7	0.630	3.38		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.163	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.2	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.9	0.91	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	544	10.2	34.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	44.7	1.1	5.7		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	5.5	0.20	0.54		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	12.0	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-223-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-223-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239177
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 04:22	Angela D Sneeringer	0.85
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 05:08	Angela D Sneeringer	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/28/2011 21:56	Sara E Johnson	20.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108423936	03/25/2011 17:14	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/11/2011 12:21	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/04/2011 12:37	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/02/2011 20:30	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34A	03/28/2011 21:06	Elizabeth J Marin	21.08
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:14	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 04:42	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 22:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 16:33	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/04/2011 19:56	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/29/2011 20:47	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110870001A	03/28/2011 23:46	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/04/2011 19:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110870001A	03/28/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1

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Sample Description: **SL-223-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239177
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 18:41	John P Hook	1
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 04:43	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 04:43	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 13:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 04:43	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 13:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 04:43	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201A	04/05/2011 11:53	Nicole M Kepley	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11094495201A	04/05/2011 11:53	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201A	04/11/2011 15:29	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11102243201A	04/13/2011 18:16	Ashley M Adams	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201B	03/29/2011 17:44	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201A	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201A	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201B	03/29/2011 10:55	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-223-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239178
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	280	6.3	7.5		0.83
06192	Benzene	71-43-2	22	0.09	3.8		0.83
06192	Bromobenzene	108-86-1	22	0.12	3.8		0.83
06192	Bromochloromethane	74-97-5	24	0.31	3.8		0.83
06192	Bromodichloromethane	75-27-4	20	0.08	3.8		0.83
06192	Bromoform	75-25-2	16	0.38	3.8		0.83
06192	Bromomethane	74-83-9	19	0.23	3.8		0.83
06192	2-Butanone	78-93-3	200	1.1	7.5		0.83
06192	n-Butylbenzene	104-51-8	23	0.11	3.8		0.83
06192	sec-Butylbenzene	135-98-8	25	0.06	3.8		0.83
06192	tert-Butylbenzene	98-06-6	23	0.15	3.8		0.83
06192	Carbon Tetrachloride	56-23-5	20	0.13	3.8		0.83
06192	Chlorobenzene	108-90-7	21	0.10	3.8		0.83
06192	Chloroethane	75-00-3	19	0.12	3.8		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.28	3.8		0.83
06192	Chloroform	67-66-3	22	0.11	3.8		0.83
06192	Chloromethane	74-87-3	17	0.31	3.8		0.83
06192	2-Chlorotoluene	95-49-8	23	0.13	3.8		0.83
06192	4-Chlorotoluene	106-43-4	22	0.13	3.8		0.83
06192	Chlorotrifluoroethene	79-38-9	20	0.45	4.5		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.66	3.8		0.83
06192	Dibromochloromethane	124-48-1	18	0.19	3.8		0.83
06192	1,2-Dibromoethane	106-93-4	19	0.16	3.8		0.83
06192	Dibromomethane	74-95-3	20	0.23	3.8		0.83
06192	1,2-Dichlorobenzene	95-50-1	20	0.08	3.8		0.83
06192	1,3-Dichlorobenzene	541-73-1	21	0.11	3.8		0.83
06192	1,4-Dichlorobenzene	106-46-7	21	0.15	3.8		0.83
06192	Dichlorodifluoromethane	75-71-8	14	0.11	3.8		0.83
06192	1,1-Dichloroethane	75-34-3	22	0.09	3.8		0.83
06192	1,2-Dichloroethane	107-06-2	20	0.14	3.8		0.83
06192	1,1-Dichloroethene	75-35-4	24	0.37	3.8		0.83
06192	cis-1,2-Dichloroethene	156-59-2	22	0.18	3.8		0.83
06192	trans-1,2-Dichloroethene	156-60-5	22	0.11	3.8		0.83
06192	1,2-Dichloropropane	78-87-5	22	0.16	3.8		0.83
06192	1,3-Dichloropropane	142-28-9	20	0.08	3.8		0.83
06192	2,2-Dichloropropane	594-20-7	21	0.16	3.8		0.83
06192	1,1-Dichloropropene	563-58-6	22	0.12	3.8		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	20	0.15	3.8		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	18	0.16	3.8		0.83
06192	Ethylbenzene	100-41-4	22	0.06	3.8		0.83
06192	Freon 113	76-13-1	25	0.10	3.8		0.83
06192	Freon 133a	75-88-7	23	0.45	4.5		0.8
06192	Hexachlorobutadiene	87-68-3	19	0.13	3.8		0.83
06192	2-Hexanone	591-78-6	130	1.5	7.5		0.83
06192	Isopropylbenzene	98-82-8	21	0.06	3.8		0.83
06192	p-Isopropyltoluene	99-87-6	24	0.10	3.8		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.20	3.8		0.83
06192	4-Methyl-2-pentanone	108-10-1	95	0.37	7.5		0.83
06192	Methylene Chloride	75-09-2	30	0.23	3.8		0.83
06192	n-Propylbenzene	103-65-1	25	0.07	3.8		0.83

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Sample Description: **SL-223-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239178
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	20	0.09	3.8		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	19	0.10	3.8		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	21	0.22	3.8		0.83
06192	Tetrachloroethene	127-18-4	21	0.19	3.8		0.83
06192	Toluene	108-88-3	22	0.08	3.8		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	16	0.13	3.8		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	17	0.17	3.8		0.83
06192	1,1,1-Trichloroethane	71-55-6	18	0.19	3.8		0.83
06192	1,1,2-Trichloroethane	79-00-5	20	0.25	3.8		0.83
06192	Trichloroethene	79-01-6	21	0.14	3.8		0.83
06192	Trichlorofluoromethane	75-69-4	21	0.27	3.8		0.83
06192	1,2,3-Trichloropropane	96-18-4	20	0.31	3.8		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	23	0.38	3.8		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	23	0.09	3.8		0.83
06192	Vinyl Chloride	75-01-4	18	0.19	3.8		0.83
06192	m+p-Xylene	179601-23-1	42	0.16	3.8		0.83
06192	o-Xylene	95-47-6	20	0.16	3.8		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	130	4.8	14		21.04
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	1,320	189	379		10

Reporting limits were raised due to interference from the sample matrix.

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,600	19	190		1
04688	Acenaphthylene	208-96-8	1,700	19	190		1
04688	Aniline	62-53-3	1,200	190	570		1
04688	Anthracene	120-12-7	1,800	19	190		1
04688	Benzidine	92-87-5	4,000	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,700	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,900	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,800	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	2,100	19	190		1
04688	Benzoic acid	65-85-0	1,300	190	570		1
04688	Benzyl alcohol	100-51-6	1,600	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700	19	190		1
04688	Carbazole	86-74-8	1,700	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,400	38	190		1
04688	4-Chloroaniline	106-47-8	880	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500	19	190		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-223-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239178
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,200	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,300	19	190		1
04688	2-Chlorophenol	95-57-8	1,700	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	38	190		1
04688	Chrysene	218-01-9	1,800	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900	19	190		1
04688	Dibenzofuran	132-64-9	1,700	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300	110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190		1
04688	Diethylphthalate	84-66-2	1,600	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,500	38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,600	38	190		1
04688	Dimethylphthalate	131-11-3	1,600	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400	190	570		1
04688	2,4-Dinitrophenol	51-28-5	2,100	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,600	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,600	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,500	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	19	380		1
04688	Fluoranthene	206-44-0	1,600	19	190		1
04688	Fluorene	86-73-7	1,600	19	190		1
04688	Hexachlorobenzene	118-74-1	1,800	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,700	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,500	190	570		1
04688	Hexachloroethane	67-72-1	1,400	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	19	190		1
04688	Isophorone	78-59-1	1,400	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,600	38	190		1
04688	4-Methylphenol	106-44-5	1,600	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	19	190		1
04688	2-Nitroaniline	88-74-4	1,600	19	190		1
04688	3-Nitroaniline	99-09-2	1,500	38	190		1
04688	4-Nitroaniline	100-01-6	1,100	76	190		1
04688	Nitrobenzene	98-95-3	1,300	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,100	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,200	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

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Sample Description: **SL-223-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239178
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Di-n-octylphthalate	117-84-0	2,100	19	190		1
04688	Pentachlorophenol	87-86-5	1,500	190	570		1
04688	Phenanthrene	85-01-8	1,700	19	190		1
04688	Phenol	108-95-2	1,500	19	190		1
04688	Pyrene	129-00-0	2,100	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	31	0.76	1.9		1
10138	Acenaphthylene	208-96-8	33	0.38	1.9		1
10138	Anthracene	120-12-7	34	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	36	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	35	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	36	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	35	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	34	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	45	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	41	6.8	20		1
10138	Chrysene	218-01-9	29	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	36	0.76	1.9		1
10138	Diethylphthalate	84-66-2	40	6.8	20		1
10138	Dimethylphthalate	131-11-3	38	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	54	6.8	20		1
10138	Fluoranthene	206-44-0	36	0.76	1.9		1
10138	Fluorene	86-73-7	35	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	37	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	31	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	38	0.76	1.9		1
10138	Naphthalene	91-20-3	32	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	29	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	44	6.8	20		1
10138	Phenanthrene	85-01-8	33	0.76	1.9		1
10138	Pyrene	129-00-0	32	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.2	0.2	0.9		20.73
Explosives	**SW-846 8330A**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300	68	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-223-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239178
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,300		45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,300		45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,200		45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,300		45	140	10000000	1
10132	HMX	2691-41-0	2,100		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,000		45	140	10000000	1
10132	Nitroglycerin	55-63-0	51,000		910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	2,300		91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	2,300		110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	2,300		91	140	10000000	1
10132	PETN	78-11-5	60,000		910	2,700	10000000	1
10132	RDX	121-82-4	2,300		57	140	10000000	1
10132	Tetryl	479-45-8	2,000		70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		45	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	6,000		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	16		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	22		0.44	1.9		1

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Sample Description: SL-223-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239178
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

112-2 SDG#: DE112-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	J	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.6		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	4.1		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	7.5		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	1.1	J	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,300		110	570		1
10501	Isopropanol	67-63-0	2,300		110	570		1
10501	Methanol	67-56-1	2,300		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	210		5.7	14		1
08283	Ethylene glycol	107-21-1	200		5.7	14		1
08283	Propylene glycol	57-55-6	200		5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	J	1.5	4.0		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.5	J	1.4	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,300		5.55	22.1		1
07914	Boron	7440-42-8	220		0.982	5.52		1
01650	Calcium	7440-70-2	3,580		6.76	22.1		1
01654	Iron	7439-89-6	21,900		5.20	22.1		1
01656	Lithium	7439-93-2	135		0.24	2.2		1
01657	Magnesium	7439-95-4	4,940		2.80	11.0		1
06958	Manganese	7439-96-5	373		0.0861	0.552		1
10145	Phosphorus	7723-14-0	459		0.618	11.0		1
01662	Potassium	7440-09-7	5,340		19.9	55.2		1
01667	Sodium	7440-23-5	1,370		41.2	110		1
07968	Strontium	7440-24-6	127		0.0684	0.552		1
06969	Tin	7440-31-5	383		1.10	11.0		1
06970	Titanium	7440-32-6	1,440		0.419	1.10		1
10146	Zirconium	7440-67-7	105		0.927	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.504		0.0656	0.219		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-223-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239178
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.75	0.0874	0.437		2
06126	Barium	7440-39-3	146	0.118	0.437		2
06127	Beryllium	7440-41-7	1.36	0.0175	0.109		2
06128	Cadmium	7440-43-9	1.32	0.0437	0.109		2
06131	Chromium	7440-47-3	28.4	0.131	0.437		2
06132	Cobalt	7440-48-4	65.7	0.0219	0.109		2
06133	Copper	7440-50-8	22.9	0.0721	0.437		2
06135	Lead	7439-92-1	8.46	0.0114	0.219		2
06138	Molybdenum	7439-98-7	12.6	0.0546	0.109		2
06139	Nickel	7440-02-0	27.4	0.109	0.437		2
06141	Selenium	7782-49-2	2.05	0.0437	0.437		2
06142	Silver	7440-22-4	11.1	0.0131	0.109		2
06145	Thallium	7440-28-0	0.640	0.0328	0.109		2
06148	Vanadium	7440-62-2	43.6	0.0240	0.109		2
06149	Zinc	7440-66-6	80.9	0.612	3.28		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.171	0.0032	0.112		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	12.0	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-223-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 04:45	Angela D Sneeringer	0.83
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 05:30	Angela D Sneeringer	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/28/2011 22:16	Sara E Johnson	21.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:17	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.

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Sample Description: **SL-223-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239178
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108423936	03/25/2011 17:17	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/11/2011 12:37	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/04/2011 13:02	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/02/2011 21:33	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34A	03/28/2011 21:43	Elizabeth J Marin	20.73
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:17	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 05:25	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 22:37	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 16:51	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 14:17	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/29/2011 21:01	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110870001A	03/29/2011 00:21	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/04/2011 20:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110870001A	03/28/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1

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Sample Description: SL-223-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239178
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-2 SDG#: DE112-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 18:45	John P Hook	1
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 04:46	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 04:46	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 13:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 04:46	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 13:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 04:46	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: **SL-223-SA5A-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239179
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-3 SDG#: DE112-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		5.72	22.7		1
07914	Boron	7440-42-8	7.36		1.01	5.68		1
01650	Calcium	7440-70-2	2,970		6.97	22.7		1
01654	Iron	7439-89-6	18,200		5.35	22.7		1
01656	Lithium	7439-93-2	24.1		0.25	2.3		1
01657	Magnesium	7439-95-4	4,030		2.89	11.4		1
06958	Manganese	7439-96-5	280		0.0886	0.568		1
10145	Phosphorus	7723-14-0	326		0.636	11.4		1
01662	Potassium	7440-09-7	3,380		20.5	56.8		1
01667	Sodium	7440-23-5	221		42.4	114		1
07968	Strontium	7440-24-6	15.5		0.0705	0.568		1
06969	Tin	7440-31-5	3.46	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,070		0.432	1.14		1
10146	Zirconium	7440-67-7	0.955	U	0.955	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0710	J	0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.93		0.0874	0.437		2
06126	Barium	7440-39-3	91.8		0.118	0.437		2
06127	Beryllium	7440-41-7	0.451		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0763	J	0.0437	0.109		2
06131	Chromium	7440-47-3	13.4		0.131	0.437		2
06132	Cobalt	7440-48-4	5.21		0.0219	0.109		2
06133	Copper	7440-50-8	7.58		0.0721	0.437		2
06135	Lead	7439-92-1	5.13		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.402		0.0546	0.109		2
06139	Nickel	7440-02-0	11.2		0.109	0.437		2
06141	Selenium	7782-49-2	0.0834	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0167	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.231		0.0328	0.109		2
06148	Vanadium	7440-62-2	29.2		0.0240	0.109		2
06149	Zinc	7440-66-6	72.9		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-223-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239179
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-3 SDG#: DE112-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	475		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.27		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	11.0		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	12.0		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 19:55	John P Hook	1
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 12:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 12:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 12:58	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

REVISED

Sample Description: SL-223-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239179
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-3 SDG#: DE112-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 04:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 12:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 12:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 12:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 12:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 04:40	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 12:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 12:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 04:40	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 12:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 04:40	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 12:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 12:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201A	04/05/2011 11:39	Nicole M Kepley	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11094495201A	04/05/2011 11:39	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201A	04/11/2011 15:06	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11102243201A	04/13/2011 19:07	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201B	03/29/2011 17:43	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201A	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201A	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201B	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101A	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401A	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

REVISED

Sample Description: **SL-223-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-8.5-9.5

LLI Sample # SW 6239180
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:04

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-4 SDG#: DE112-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.99
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.2		0.99
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.99
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.99
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.99
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.99
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.99
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.99
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.99
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.99
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.99
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.99
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.99
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.2		0.99
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.99
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.99
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.99
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.99
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.99
06192	Methylene Chloride	75-09-2	2.3	J	0.25	4.2		0.99
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.99

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-223-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-8.5-9.5

LLI Sample # SW 6239180
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:04

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-4 SDG#: DE112-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.99
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.99
06192	Toluene	108-88-3	0.09	U	0.09	4.2		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.99
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.99
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.99
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.99
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.99
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.99
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.85
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	112		17.7	35.5		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-223-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-8.5-9.5

LLI Sample # SW 6239180
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:04

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-4 SDG#: DE112-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-223-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-8.5-9.5

LLI Sample # SW 6239180
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:04

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-4 SDG#: DE112-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.05
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	130	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1

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Sample Description: **SL-223-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-8.5-9.5

LLI Sample # SW 6239180
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:04

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-4 SDG#: DE112-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.45	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1

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Sample Description: SL-223-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-8.5-9.5

LLI Sample # SW 6239180
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:04

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-4 SDG#: DE112-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,700		5.30	21.1		1
07914	Boron	7440-42-8	7.35		0.937	5.27		1
01650	Calcium	7440-70-2	2,480		6.46	21.1		1
01654	Iron	7439-89-6	21,300		4.96	21.1		1
01656	Lithium	7439-93-2	24.8		0.23	2.1		1
01657	Magnesium	7439-95-4	4,440		2.68	10.5		1
06958	Manganese	7439-96-5	279		0.0822	0.527		1
10145	Phosphorus	7723-14-0	207		0.590	10.5		1
01662	Potassium	7440-09-7	2,140		19.0	52.7		1
01667	Sodium	7440-23-5	105	J	39.3	105		1
07968	Strontium	7440-24-6	20.5		0.0653	0.527		1
06969	Tin	7440-31-5	3.36	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,150		0.400	1.05		1
10146	Zirconium	7440-67-7	0.885	U	0.885	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0710	J	0.0626	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.15		0.0834	0.417		2
06126	Barium	7440-39-3	70.1		0.113	0.417		2
06127	Beryllium	7440-41-7	0.716		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.0417	U	0.0417	0.104		2
06131	Chromium	7440-47-3	16.9		0.125	0.417		2
06132	Cobalt	7440-48-4	4.65		0.0209	0.104		2
06133	Copper	7440-50-8	6.36		0.0688	0.417		2
06135	Lead	7439-92-1	5.49		0.0108	0.209		2
06138	Molybdenum	7439-98-7	0.356		0.0521	0.104		2
06139	Nickel	7440-02-0	8.78		0.104	0.417		2
06141	Selenium	7782-49-2	0.0696	J	0.0417	0.417		2
06142	Silver	7440-22-4	0.0179	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.243		0.0313	0.104		2
06148	Vanadium	7440-62-2	31.0		0.0229	0.104		2
06149	Zinc	7440-66-6	44.0		0.584	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	9.5		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-223-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-8.5-9.5

LLI Sample # SW 6239180
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:04

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-4 SDG#: DE112-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	419		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.64		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-223-SA5A-SB-9.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 08:07	Angela D Sneeringer	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/28/2011 23:16	Sara E Johnson	22.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:20	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.

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Sample Description: SL-223-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-8.5-9.5

LLI Sample # SW 6239180
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:04

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-4 SDG#: DE112-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108423936	03/25/2011 17:20	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/11/2011 12:54	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/04/2011 13:53	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 02:17	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34A	03/28/2011 22:19	Elizabeth J Marin	25.05
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:20	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 06:07	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 22:47	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 17:10	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 04:29	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/29/2011 21:16	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110870001A	03/28/2011 22:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/04/2011 21:19	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110870001A	03/28/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 18:56	John P Hook	1

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Sample Description: **SL-223-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-8.5-9.5

LLI Sample # SW 6239180
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:04

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-4 SDG#: DE112-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 04:55	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 04:55	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 13:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 04:55	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 13:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 04:55	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201A	04/05/2011 12:23	Nicole M Kepley	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11094495201A	04/05/2011 12:23	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201A	04/11/2011 16:14	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11102243201A	04/13/2011 19:28	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201B	03/29/2011 17:45	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201A	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201A	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201B	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101B	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401B	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: **DUP10-SA5A-QC-032411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5A-QC-032411

LLI Sample # SW 6239181
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 10:58

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-5 SDG#: DE112-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.89
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.89
06192	Methylene Chloride	75-09-2	2.9	J	0.24	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.89

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Sample Description: DUP10-SA5A-QC-032411 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA5A-QC-032411

LLI Sample # SW 6239181
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 10:58

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-5 SDG#: DE112-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.89
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.19
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	47.7		18.5	36.9		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	31	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	26	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	30	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	25	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	23	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	31	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1

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Sample Description: **DUP10-SA5A-QC-032411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5A-QC-032411

LLI Sample # SW 6239181
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 10:58

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-5 SDG#: DE112-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	370		1
04688	Fluoranthene	206-44-0	28	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	43	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1

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SSFL Area IV Collocated Soil Sampling
DUP10-SA5A-QC-032411

LLI Sample # SW 6239181
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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112-5 SDG#: DE112-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.78
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1

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SSFL Area IV Collocated Soil Sampling
DUP10-SA5A-QC-032411

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Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	5.2		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.76	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	12		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	19		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.52	J	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP10-SA5A-QC-032411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5A-QC-032411

LLI Sample # SW 6239181
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 10:58

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-5 SDG#: DE112-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,300		5.57	22.1		1
07914	Boron	7440-42-8	8.57		0.986	5.54		1
01650	Calcium	7440-70-2	2,670		6.79	22.1		1
01654	Iron	7439-89-6	20,000		5.22	22.1		1
01656	Lithium	7439-93-2	21.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,310		2.81	11.1		1
06958	Manganese	7439-96-5	345		0.0864	0.554		1
10145	Phosphorus	7723-14-0	370		0.620	11.1		1
01662	Potassium	7440-09-7	4,120		19.9	55.4		1
01667	Sodium	7440-23-5	195		41.3	111		1
07968	Strontium	7440-24-6	21.3		0.0687	0.554		1
06969	Tin	7440-31-5	3.25	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,160		0.421	1.11		1
10146	Zirconium	7440-67-7	1.03	J	0.930	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0789	J	0.0651	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.49		0.0869	0.434		2
06126	Barium	7440-39-3	100		0.117	0.434		2
06127	Beryllium	7440-41-7	0.636		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0577	J	0.0434	0.109		2
06131	Chromium	7440-47-3	17.3		0.130	0.434		2
06132	Cobalt	7440-48-4	6.02		0.0217	0.109		2
06133	Copper	7440-50-8	8.25		0.0717	0.434		2
06135	Lead	7439-92-1	6.01		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.445		0.0543	0.109		2
06139	Nickel	7440-02-0	13.1		0.109	0.434		2
06141	Selenium	7782-49-2	0.132	J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0443	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.306		0.0326	0.109		2
06148	Vanadium	7440-62-2	33.7		0.0239	0.109		2
06149	Zinc	7440-66-6	50.0		0.608	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP10-SA5A-QC-032411 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA5A-QC-032411

LLI Sample # SW 6239181
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 10:58

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-5 SDG#: DE112-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	413		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.41		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 08:29	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/28/2011 22:56	Sara E Johnson	21.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108423936	03/25/2011 17:23	Christopher D Meeks	n.a.

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Sample Description: **DUP10-SA5A-QC-032411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5A-QC-032411

LLI Sample # SW 6239181
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 10:58

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-5 SDG#: DE112-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/11/2011 13:10	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/04/2011 14:18	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 02:47	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34A	03/28/2011 22:56	Elizabeth J Marin	19.78
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:22	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 08:14	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 22:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 17:29	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 12:35	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/29/2011 21:31	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110870001A	03/28/2011 22:36	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/04/2011 22:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110870001A	03/28/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 19:08	John P Hook	1
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:13	Choon Y Tian	2

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Sample Description: **DUP10-SA5A-QC-032411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5A-QC-032411

LLI Sample # SW 6239181
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 10:58

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-5 SDG#: DE112-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 05:05	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 05:05	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 13:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 05:05	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 13:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 05:05	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201A	04/05/2011 12:37	Nicole M Kepley	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11094495201A	04/05/2011 12:37	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201A	04/11/2011 16:59	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11102243201A	04/13/2011 19:36	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201B	03/29/2011 17:47	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201A	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201A	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201B	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101B	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401B	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: **SL-226-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-226-SA5A-SB-4.0-5.0

LLI Sample # SW 6239182
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 12:24

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-6 SDG#: DE112-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.7		0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.84
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.84
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.84
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.84
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.7		0.84
06192	Methylene Chloride	75-09-2	3.0	J	0.23	3.8		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.84

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Sample Description: SL-226-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-226-SA5A-SB-4.0-5.0

LLI Sample # SW 6239182
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 12:24

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-6 SDG#: DE112-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.84
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.74
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	54.7		18.9	37.8		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1

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Sample Description: SL-226-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-226-SA5A-SB-4.0-5.0

LLI Sample # SW 6239182
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 12:24

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-6 SDG#: DE112-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1

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Sample Description: **SL-226-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-226-SA5A-SB-4.0-5.0

LLI Sample # SW 6239182
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 12:24

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-6 SDG#: DE112-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	1.4	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.29
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1

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Sample Description: SL-226-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-226-SA5A-SB-4.0-5.0

LLI Sample # SW 6239182
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 12:24

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-6 SDG#: DE112-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.9	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.2	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	1.0	J	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1

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Sample Description: SL-226-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-226-SA5A-SB-4.0-5.0

LLI Sample # SW 6239182
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 12:24

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-6 SDG#: DE112-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.70	22.7		1
07914	Boron	7440-42-8	6.24		1.01	5.66		1
01650	Calcium	7440-70-2	5,070		6.94	22.7		1
01654	Iron	7439-89-6	18,800		5.33	22.7		1
01656	Lithium	7439-93-2	24.8		0.25	2.3		1
01657	Magnesium	7439-95-4	3,980		2.88	11.3		1
06958	Manganese	7439-96-5	323		0.0883	0.566		1
10145	Phosphorus	7723-14-0	336		0.634	11.3		1
01662	Potassium	7440-09-7	3,130		20.4	56.6		1
01667	Sodium	7440-23-5	143		42.2	113		1
07968	Strontium	7440-24-6	16.8		0.0702	0.566		1
06969	Tin	7440-31-5	3.53	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,040		0.430	1.13		1
10146	Zirconium	7440-67-7	0.951	U	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0680	U	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.94		0.0906	0.453		2
06126	Barium	7440-39-3	130		0.122	0.453		2
06127	Beryllium	7440-41-7	0.488		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.189		0.0453	0.113		2
06131	Chromium	7440-47-3	18.4		0.136	0.453		2
06132	Cobalt	7440-48-4	6.47		0.0227	0.113		2
06133	Copper	7440-50-8	11.2		0.0747	0.453		2
06135	Lead	7439-92-1	4.36		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.564		0.0566	0.113		2
06139	Nickel	7440-02-0	13.8		0.113	0.453		2
06141	Selenium	7782-49-2	0.0833	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0136	U	0.0136	0.113		2
06145	Thallium	7440-28-0	0.248		0.0340	0.113		2
06148	Vanadium	7440-62-2	33.1		0.0249	0.113		2
06149	Zinc	7440-66-6	66.0		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.3		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-226-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-226-SA5A-SB-4.0-5.0

LLI Sample # SW 6239182
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 12:24

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-6 SDG#: DE112-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	433		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.36		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-226-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 08:51	Angela D Sneeringer	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/28/2011 23:36	Sara E Johnson	21.74
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:26	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-226-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-226-SA5A-SB-4.0-5.0

LLI Sample # SW 6239182
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 12:24

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-6 SDG#: DE112-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108423936	03/25/2011 17:26	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/11/2011 13:26	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/04/2011 14:44	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 03:18	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34A	03/28/2011 23:32	Elizabeth J Marin	21.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:25	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 08:56	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 23:06	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 17:47	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 04:55	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/29/2011 21:46	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110870001A	03/28/2011 22:53	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/04/2011 22:50	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110870001A	03/28/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 19:12	John P Hook	1

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Sample Description: **SL-226-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-226-SA5A-SB-4.0-5.0

LLI Sample # SW 6239182
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 12:24

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-6 SDG#: DE112-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 05:08	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 05:08	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 13:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 05:08	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 05:08	David K Beck	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 05:08	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201A	04/05/2011 12:52	Nicole M Kepley	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11094495201A	04/05/2011 12:52	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201A	04/11/2011 17:22	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11102243201A	04/13/2011 19:50	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201B	03/29/2011 17:50	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201A	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201A	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201B	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101B	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401B	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: **SL-225-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5A-SB-4.0-5.0

LLI Sample # SW 6239183
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 14:33

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-7 SDG#: DE112-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.85
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.85
06192	Methylene Chloride	75-09-2	2.7	J	0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-225-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5A-SB-4.0-5.0

LLI Sample # SW 6239183
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 14:33

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-7 SDG#: DE112-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.33
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	61.2		19.7	39.4		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1

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Sample Description: **SL-225-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5A-SB-4.0-5.0

LLI Sample # SW 6239183
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 14:33

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-7 SDG#: DE112-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	2.1		0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1

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Sample Description: **SL-225-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5A-SB-4.0-5.0

LLI Sample # SW 6239183
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 14:33

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-7 SDG#: DE112-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	2.1		0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.0		0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.66
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,800	10000000	1

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Sample Description: SL-225-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5A-SB-4.0-5.0

LLI Sample # SW 6239183
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 14:33

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-7 SDG#: DE112-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	6.0		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.73	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1

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Sample Description: SL-225-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5A-SB-4.0-5.0

LLI Sample # SW 6239183
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 14:33

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-7 SDG#: DE112-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,900		5.72	22.7		1
07914	Boron	7440-42-8	10.8		1.01	5.68		1
01650	Calcium	7440-70-2	4,550		6.97	22.7		1
01654	Iron	7439-89-6	29,900		5.35	22.7		1
01656	Lithium	7439-93-2	34.7		0.25	2.3		1
01657	Magnesium	7439-95-4	6,610		2.89	11.4		1
06958	Manganese	7439-96-5	365		0.0887	0.568		1
10145	Phosphorus	7723-14-0	384		0.636	11.4		1
01662	Potassium	7440-09-7	3,910		20.5	56.8		1
01667	Sodium	7440-23-5	176		42.4	114		1
07968	Strontium	7440-24-6	25.3		0.0705	0.568		1
06969	Tin	7440-31-5	3.61	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,430		0.432	1.14		1
10146	Zirconium	7440-67-7	0.955	U	0.955	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0702	U	0.0702	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.66		0.0936	0.468		2
06126	Barium	7440-39-3	85.7		0.126	0.468		2
06127	Beryllium	7440-41-7	0.931		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.0855	J	0.0468	0.117		2
06131	Chromium	7440-47-3	12.4		0.140	0.468		2
06132	Cobalt	7440-48-4	4.88		0.0234	0.117		2
06133	Copper	7440-50-8	5.89		0.0772	0.468		2
06135	Lead	7439-92-1	10.3		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.615		0.0585	0.117		2
06139	Nickel	7440-02-0	8.10		0.117	0.468		2
06141	Selenium	7782-49-2	0.181	J	0.0468	0.468		2
06142	Silver	7440-22-4	0.0140	U	0.0140	0.117		2
06145	Thallium	7440-28-0	0.370		0.0351	0.117		2
06148	Vanadium	7440-62-2	25.7		0.0257	0.117		2
06149	Zinc	7440-66-6	60.8		0.655	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-225-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5A-SB-4.0-5.0

LLI Sample # SW 6239183
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 14:33

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-7 SDG#: DE112-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	445		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-225-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 09:13	Angela D Sneeringer	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/28/2011 23:56	Sara E Johnson	20.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:29	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108423936	03/25/2011 17:36	Christopher D Meeks	n.a.

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Sample Description: **SL-225-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5A-SB-4.0-5.0

LLI Sample # SW 6239183
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 14:33

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-7 SDG#: DE112-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108423936	03/25/2011 17:29	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/11/2011 13:43	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/04/2011 15:09	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 03:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34A	03/29/2011 00:09	Elizabeth J Marin	20.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:28	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 09:39	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 23:15	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 18:06	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 05:20	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/29/2011 22:01	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110870001A	03/28/2011 23:11	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/04/2011 23:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110870001A	03/28/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 19:16	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

REVISED

Sample Description: SL-225-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5A-SB-4.0-5.0

LLI Sample # SW 6239183
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 14:33

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-7 SDG#: DE112-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 05:11	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 05:11	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/03/2011 19:35	David K Beck	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 05:11	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 13:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 05:11	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201A	04/05/2011 13:07	Nicole M Kepley	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11094495201A	04/05/2011 13:07	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201A	04/11/2011 17:44	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11102243201A	04/13/2011 20:12	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201B	03/29/2011 17:51	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201A	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201A	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201B	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101B	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401B	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Analysis Report

REVISED

Sample Description: **SL-224-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-224-SA5A-SB-4.0-5.0

LLI Sample # SW 6239184
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 15:29

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-8 SDG#: DE112-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.7		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.86
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.86
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.86
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.86
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.86
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.86
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.86
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.86
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.86
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.86
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.86
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.86
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.86
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.86
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.86
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.86
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.86
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.86
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.86
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.86
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.86
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.86
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.86
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.86
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.86
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.7		0.86
06192	Methylene Chloride	75-09-2	5.4		0.23	3.8		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.86

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Sample Description: SL-224-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-224-SA5A-SB-4.0-5.0

LLI Sample # SW 6239184
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 15:29

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-8 SDG#: DE112-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.86
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.86
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.86
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.86
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.86
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.86
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.4	U	4.4	13		19.84
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	80.2		18.6	37.2		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1

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Sample Description: **SL-224-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-224-SA5A-SB-4.0-5.0

LLI Sample # SW 6239184
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 15:29

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-8 SDG#: DE112-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1

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Sample Description: **SL-224-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-224-SA5A-SB-4.0-5.0

LLI Sample # SW 6239184
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 15:29

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-8 SDG#: DE112-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	42		6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.43
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1

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Sample Description: SL-224-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-224-SA5A-SB-4.0-5.0

LLI Sample # SW 6239184
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 15:29

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-8 SDG#: DE112-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.62	J	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	1.2	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.53	J	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

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Sample Description: SL-224-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-224-SA5A-SB-4.0-5.0

LLI Sample # SW 6239184
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 15:29

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-8 SDG#: DE112-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,400		5.44	21.6		1
07914	Boron	7440-42-8	7.99		0.963	5.41		1
01650	Calcium	7440-70-2	2,120		6.63	21.6		1
01654	Iron	7439-89-6	21,200		5.10	21.6		1
01656	Lithium	7439-93-2	24.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,540		2.75	10.8		1
06958	Manganese	7439-96-5	303		0.0844	0.541		1
10145	Phosphorus	7723-14-0	306		0.606	10.8		1
01662	Potassium	7440-09-7	3,100		19.5	54.1		1
01667	Sodium	7440-23-5	107	J	40.4	108		1
07968	Strontium	7440-24-6	19.1		0.0671	0.541		1
06969	Tin	7440-31-5	3.21	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,150		0.411	1.08		1
10146	Zirconium	7440-67-7	1.34	J	0.909	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0840	J	0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.95		0.0874	0.437		2
06126	Barium	7440-39-3	131		0.118	0.437		2
06127	Beryllium	7440-41-7	0.778		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.104	J	0.0437	0.109		2
06131	Chromium	7440-47-3	25.6		0.131	0.437		2
06132	Cobalt	7440-48-4	7.65		0.0219	0.109		2
06133	Copper	7440-50-8	13.7		0.0721	0.437		2
06135	Lead	7439-92-1	5.75		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.525		0.0546	0.109		2
06139	Nickel	7440-02-0	17.9		0.109	0.437		2
06141	Selenium	7782-49-2	0.0897	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0303	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.280		0.0328	0.109		2
06148	Vanadium	7440-62-2	43.3		0.0240	0.109		2
06149	Zinc	7440-66-6	70.8		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-224-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-224-SA5A-SB-4.0-5.0

LLI Sample # SW 6239184
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 15:29

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-8 SDG#: DE112-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	529		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.11		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-224-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 09:35	Angela D Sneeringer	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/29/2011 00:16	Sara E Johnson	19.84
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108423936	03/25/2011 17:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108423936	03/25/2011 17:36	Christopher D Meeks	n.a.

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Sample Description: **SL-224-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-224-SA5A-SB-4.0-5.0

LLI Sample # SW 6239184
LLI Group # 1238947
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112-8 SDG#: DE112-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108423936	03/25/2011 17:32	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/14/2011 12:40	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/04/2011 15:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 04:21	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34A	03/29/2011 00:45	Elizabeth J Marin	25.43
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201108723956	03/28/2011 14:15	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 10:21	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 23:25	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 18:24	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 05:46	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/29/2011 22:15	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110870001A	03/28/2011 23:28	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/05/2011 00:21	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110870001A	03/28/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 19:20	John P Hook	1

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Sample Description: **SL-224-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-224-SA5A-SB-4.0-5.0

LLI Sample # SW 6239184
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 15:29

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-8 SDG#: DE112-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 05:14	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 05:14	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 13:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 05:14	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 13:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 05:14	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201A	04/05/2011 13:51	Nicole M Kepley	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11094495201A	04/05/2011 13:51	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201A	04/11/2011 18:07	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11102243201A	04/13/2011 20:26	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11088102201B	03/29/2011 17:52	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201A	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201A	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11088102201B	03/29/2011 10:55	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101B	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401B	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Analysis Report

REVISED

Sample Description: TB-032411 Water
SSFL Area IV Collocated Soil Sampling
TB-032411

LLI Sample # WW 6239185
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 08:00

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-9 SDG#: DE112-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

REVISED

Sample Description: TB-032411 Water
SSFL Area IV Collocated Soil Sampling
TB-032411

LLI Sample # WW 6239185
LLI Group # 1238947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 08:00

Submitted: 03/25/2011 09:15
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

112-9 SDG#: DE112-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110883AA	03/29/2011	20:59	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110871AA	03/28/2011	11:53	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110871AA	03/28/2011	11:53	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110883AA	03/29/2011	20:59	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11094A20A	04/04/2011	14:33	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11094A20A	04/04/2011	14:33	Laura M Krieger	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238947
Reported: 05/05/11 at 12:18 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110861AA	Sample number(s): 6239175-6239178,6239180-6239184									
Acetone	7.7	J	6.7	8.0	ug/kg	196		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	105		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	98		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	128*		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	82		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	104		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	148		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	108		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	108		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	101		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	90		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	98		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	102		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	103		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	103		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	99		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	93		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	98		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	87		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	88		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	102		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	107		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	101		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	94		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	93		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	88		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	100		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	122		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	107		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	134		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	107		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238947
Reported: 05/05/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	103		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	114		61-134		
Methylene Chloride	0.95	J	0.24	4.0	ug/kg	111		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	108		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	90		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	107		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	96		77-120		
Toluene	0.16	J	0.08	4.0	ug/kg	100		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	95		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	85		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	106		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	105		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	103		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	98		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
Batch number: E110871AA	Sample number(s): 6239185									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	112	114	80-123	2	30
Batch number: E110872AA	Sample number(s): 6239175-6239178,6239180-6239184									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108		70-130		
Batch number: Y110883AA	Sample number(s): 6239185									
Acetone	6	U	6.	20	ug/l	104	109	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	101	102	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	104	105	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	109	113	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	104	105	80-120	1	30
Bromoform	1	U	1.	5	ug/l	87	87	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	120	123*	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	100	102	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	98	100	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	100	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	96	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	110	112	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	100	102	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	111	114	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	78	84	56-129	8	30
Chloroform	0.8	U	0.8	5	ug/l	109	111	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	81	85	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	102	105	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	99	101	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	75	76	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	96	96	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	95	96	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	103	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	108	110	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	100	101	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	104	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	101	102	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	96	96	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	103	105	79-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238947
Reported: 05/05/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	121	124	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	108	111	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	104	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	102	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	98	99	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	103	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	104	105	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	107	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	93	95	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	95	97	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	101	79-120	2	30
Freon 113	2	U	2.	10	ug/l	117	121	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	112	114	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	97	101	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	93	97	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	98	100	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	102	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	104	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	98	100	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	108	108	80-120	0	30
n-Propylbenzene	1	U	1.	5	ug/l	101	103	80-120	2	30
Styrene	1	U	1.	5	ug/l	94	96	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	102	103	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	95	97	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	105	113	80-121	8	30
Toluene	0.7	U	0.7	5	ug/l	99	99	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	98	102	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	99	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	112	113	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	101	101	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	104	106	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	137*	131*	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	105	108	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	103	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	101	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	95	97	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	100	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	95	98	80-120	3	30

Batch number: 11089SLD026 Sample number(s): 6239175-6239178,6239180-6239184

Acenaphthene	0.67	U	0.67	1.7	ug/kg	97	63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101	60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	90	55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	107	74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	110	58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	123	63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	113	44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	115	54-142
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	112	65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	112	75-137
Chrysene	0.33	U	0.33	1.7	ug/kg	96	73-114
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	116	53-138
Diethylphthalate	6.0	U	6.0	18	ug/kg	121	68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	143*	79-121
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	109	67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	107	64-120
Fluorene	0.67	U	0.67	1.7	ug/kg	107	71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	116	56-134

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238947
Reported: 05/05/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	108		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	97		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	112		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	111		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	100		56-121		
Batch number: 11091SLC026	Sample number(s): 6239175-6239178,6239180-6239184									
Acenaphthene	17	U	17.	170	ug/kg	86		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	91		75-122		
Aniline	170 U		170.	500	ug/kg	68		34-94		
Anthracene	17	U	17.	170	ug/kg	95		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	47		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	91		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	103		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	107		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	96		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	103		67-125		
Benzoic acid	170 U		170.	500	ug/kg	72		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	81		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	95		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	88		79-112		
Carbazole	17	U	17.	170	ug/kg	90		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	80		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	51		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	79		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	78		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	64*		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	90		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		79-110		
Chrysene	17	U	17.	170	ug/kg	95		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	99		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	89		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	63		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	82		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	80		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	90		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	86		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	87		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	71		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	85		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	86		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	77		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	89		75-117		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238947
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	17	U	17.	170	ug/kg	90		78-116		
Fluorene	17	U	17.	170	ug/kg	87		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	72		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	96		64-119		
Isophorone	17	U	17.	170	ug/kg	73		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	95		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	87		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	84		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	88		66-117		
Naphthalene	17	U	17.	170	ug/kg	88		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	87		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	61		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	70*		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	92		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	65		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	66		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	63		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	110		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	76		51-117		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	80		58-112		
Pyrene	17	U	17.	170	ug/kg	105		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	89		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	88		78-111		
Batch number: 11092SLB026	Sample number(s): 6239176-6239178,6239180-6239184									
N-Nitrosodimethylamine	21.5	J	16.7	33.3	ng/kg	76		70-130		
Batch number: 11087A34A	Sample number(s): 6239176-6239178,6239180-6239184									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11094A20A	Sample number(s): 6239185									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 110900049A	Sample number(s): 6239176-6239178,6239180-6239184									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	95	107	54-134	13	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	94	107	54-134	13	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	106		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	101		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
HMX	100	U	100.	300	ug/kg	97		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	99		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	89		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	106		73-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238947
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80	U	80.	120	ug/kg	105		80-120		
PETN	800	U	800.	2,400	ug/kg	110		80-120		
RDX	50	U	50.	120	ug/kg	96		75-131		
Tetryl	61	U	61.	120	ug/kg	89		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	107		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 110870004A	Sample number(s): 6239176-6239178,6239180-6239184									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	97		80-126		
Batch number: 110900040A	Sample number(s): 6239175-6239178,6239180-6239184									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	75	81	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	87		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	95		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110900035A	Sample number(s): 6239176-6239178,6239180-6239184									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	95		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	85		66-113		
Batch number: 110870001A	Sample number(s): 6239176-6239178,6239180-6239184									
Diethylene glycol	5.0	U	5.0	13	mg/kg	115		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	116		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	117		75-125		
Batch number: 110880031A	Sample number(s): 6239176-6239178,6239180-6239184									
Ethanol	100	U	100.	500	ug/kg	94		71-129		
Isopropanol	100	U	100.	500	ug/kg	97		75-125		
Methanol	100	U	100.	500	ug/kg	92		68-129		
Batch number: 110920003A	Sample number(s): 6239176-6239178,6239180-6239184									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 110881026002A	Sample number(s): 6239175-6239184									
Antimony	0.0594	U	0.0594	0.198	mg/kg	60		11-208		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	106		80-120		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	106		82-118		
Cadmium	0.0396	U	0.0396	0.0990	mg/kg	103		82-118		
Chromium	0.119	U	0.119	0.396	mg/kg	104		80-120		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	106		82-118		
Copper	0.195	J	0.0653	0.396	mg/kg	104		80-120		
Lead	0.0103	U	0.0103	0.198	mg/kg	109		80-120		
Nickel	0.125	J	0.0990	0.396	mg/kg	113		80-120		
Silver	0.0119	U	0.0119	0.0990	mg/kg	97		66-134		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	106		81-119		
Vanadium	0.0218	U	0.0218	0.0990	mg/kg	94		90-110		
Zinc	0.554	U	0.554	2.97	mg/kg	108		78-122		
Batch number: 110881026002B	Sample number(s): 6239175-6239184									
Selenium	0.0396	U	0.0396	0.396	mg/kg	114		79-122		
Batch number: 110881026002C	Sample number(s): 6239175-6239184									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	111		78-122		
Batch number: 110881026002D	Sample number(s): 6239175-6239184									
Barium	0.107	U	0.107	0.396	mg/kg	107		79-121		
Batch number: 110885708004	Sample number(s): 6239175-6239184									
Aluminum	4.88	U	4.88	19.4	mg/kg	102		61-110		
Boron	0.864	U	0.864	4.85	mg/kg	97		78-110		
Calcium	6.36	J	5.95	19.4	mg/kg	106		88-110		
Iron	4.57	U	4.57	19.4	mg/kg	87		61-110		
Lithium	0.21	U	0.21	1.9	mg/kg	100		80-120		
Magnesium	2.47	U	2.47	9.71	mg/kg	101		82-110		
Manganese	0.0757	U	0.0757	0.485	mg/kg	95		81-119		
Phosphorus	1.28	J	0.544	9.71	mg/kg	99		80-120		
Potassium	17.5	U	17.5	48.5	mg/kg	105		78-110		
Sodium	36.2	U	36.2	97.1	mg/kg	102		87-110		
Strontium	0.0602	U	0.0602	0.485	mg/kg	101		79-121		
Tin	1.86	J	0.971	9.71	mg/kg	98		90-114		
Titanium	0.369	U	0.369	0.971	mg/kg	89		80-120		
Zirconium	0.816	U	0.816	4.85	mg/kg	99		80-120		
Batch number: 110885711002	Sample number(s): 6239175-6239184									
Mercury	0.0028	U	0.0028	0.0991	mg/kg	101		88-123		
Batch number: 11088102201B	Sample number(s): 6239176-6239177,6239179-6239184									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	96		80-120		
Batch number: 11094094201A	Sample number(s): 6239175-6239177,6239179-6239184									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	90		85-115		
Batch number: 11094495201A	Sample number(s): 6239175-6239177,6239179-6239184									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	99		90-110		
Batch number: 11102243201A	Sample number(s): 6239175-6239177,6239179-6239184									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	94		80-120		
Batch number: 11087039401A	Sample number(s): 6239175-6239176,6239179									
18a pH by 9045C						100		95-105		
Batch number: 11087039401B	Sample number(s): 6239180-6239184									
18a pH by 9045C						100		95-105		
Batch number: 11087182101A	Sample number(s): 6239175-6239176,6239179									
32a OR Potential						100		98-102		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238947
Reported: 05/05/11 at 12:18 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11087182101B	Sample number(s): 6239180-6239184								
32a OR Potential					100		98-102		
Batch number: 11090162401A	Sample number(s): 6239175								
Moisture Content by 160.3					100		80-120		
Batch number: 11101162401A	Sample number(s): 6239176-6239184								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110861AA	Sample number(s): 6239175-6239178,6239180-6239184 UNSPK: 6239176								
Acetone	211*	197	15-210	10	30				
Benzene	112	118	55-143	2	30				
Bromobenzene	109	116	43-139	3	30				
Bromochloromethane	135	128	60-137	10	30				
Bromodichloromethane	100	106	53-136	2	30				
Bromoform	83	85	38-124	1	30				
Bromomethane	101	100	42-168	4	30				
2-Butanone	151	144	37-163	8	30				
n-Butylbenzene	123	125	30-146	2	30				
sec-Butylbenzene	129	133	33-157	0	30				
tert-Butylbenzene	117	122	41-152	0	30				
Carbon Tetrachloride	98	107	45-153	5	30				
Chlorobenzene	106	111	49-135	1	30				
Chloroethane	103	103	39-152	3	30				
2-Chloroethyl Vinyl Ether	98	96	32-139	5	30				
Chloroform	110	115	61-142	1	30				
Chloromethane	93	92	51-163	4	30				
2-Chlorotoluene	115	122	42-146	2	30				
4-Chlorotoluene	111	118	39-145	3	30				
Chlorotrifluoroethene	118	113	70-130	10	30				
1,2-Dibromo-3-chloropropane	92	89	30-139	7	30				
Dibromochloromethane	92	96	51-128	2	30				
1,2-Dibromoethane	101	103	54-129	2	30				
Dibromomethane	104	107	57-130	1	30				
1,2-Dichlorobenzene	103	107	36-133	1	30				
1,3-Dichlorobenzene	107	112	34-134	2	30				
1,4-Dichlorobenzene	106	110	35-136	0	30				
Dichlorodifluoromethane	78	77	26-151	5	30				
1,1-Dichloroethane	111	117	63-142	2	30				
1,2-Dichloroethane	104	108	68-131	0	30				
1,1-Dichloroethene	118	126	61-149	2	30				
cis-1,2-Dichloroethene	111	116	60-136	0	30				
trans-1,2-Dichloroethene	113	117	59-142	0	30				
1,2-Dichloropropane	110	117	62-135	2	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3-Dichloropropane	105	108	58-129	1	30				
2,2-Dichloropropane	102	109	53-147	3	30				
1,1-Dichloropropene	114	119	54-145	1	30				
cis-1,3-Dichloropropene	97	105	51-131	4	30				
trans-1,3-Dichloropropene	94	98	49-129	0	30				
Ethylbenzene	111	115	44-141	0	30				
Freon 113	128	136	56-156	3	30				
Freon 133a	133*	126	61-131	12	30				
Hexachlorobutadiene	106	104	10-155	5	30				
2-Hexanone	143	138	32-160	7	30				
Isopropylbenzene	110	114	38-144	0	30				
p-Isopropyltoluene	124	127	29-152	1	30				
Methyl Tertiary Butyl Ether	98	100	55-129	2	30				
4-Methyl-2-pentanone	106	101	46-139	9	30				
Methylene Chloride	105	142*	61-141	23	30				
n-Propylbenzene	129	132	39-157	1	30				
Styrene	101	105	35-134	0	30				
1,1,1,2-Tetrachloroethane	97	102	52-130	2	30				
1,1,2,2-Tetrachloroethane	110	111	40-152	3	30				
Tetrachloroethene	108	114	42-149	2	30				
Toluene	109	115	50-146	2	30				
1,2,3-Trichlorobenzene	86	84	10-140	6	30				
1,2,4-Trichlorobenzene	90	90	10-136	4	30				
1,1,1-Trichloroethane	92	98	64-142	3	30				
1,1,2-Trichloroethane	104	107	54-139	1	30				
Trichloroethene	109	114	53-144	1	30				
Trichlorofluoromethane	111	111	47-163	4	30				
1,2,3-Trichloropropane	110	109	45-154	4	30				
1,2,4-Trimethylbenzene	118	123	37-149	1	30				
1,3,5-Trimethylbenzene	118	124	38-150	2	30				
Vinyl Chloride	97	96	50-154	4	30				
m+p-Xylene	107	111	44-137	1	30				
o-Xylene	104	108	42-137	0	30				
Batch number: E110872AA	Sample number(s): 6239175-6239178,6239180-6239184 UNSPK: 6239176								
1,4-Dioxane	119	113	70-130	4	30				
Batch number: 11089SLD026	Sample number(s): 6239175-6239178,6239180-6239184 UNSPK: 6239176								
Acenaphthene	92	82	63-105	11	30				
Acenaphthylene	98	88	67-114	11	30				
Anthracene	95	90	60-122	5	30				
Benzo(a)anthracene	109	94	59-128	14	30				
Benzo(a)pyrene	104	93	45-138	11	30				
Benzo(b)fluoranthene	114	95	43-155	18	30				
Benzo(g,h,i)perylene	104	93	33-141	12	30				
Benzo(k)fluoranthene	100	90	42-144	11	30				
Butylbenzylphthalate	109	120	57-173	10	30				
Di-n-butylphthalate	113	107	65-148	6	30				
Chrysene	84	78	48-134	8	30				
Dibenz(a,h)anthracene	108	96	22-133	12	30				
Diethylphthalate	119	106	70-136	12	30				
Dimethylphthalate	110	100	74-118	10	30				
Bis(2-Ethylhexyl)phthalate	116	144	39-167	21	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluoranthene	102	95	26-166	8	30				
Fluorene	103	91	66-122	12	30				
Indeno(1,2,3-cd)pyrene	108	96	21-143	11	30				
1-Methylnaphthalene	89	81	72-123	9	30				
2-Methylnaphthalene	105*	99	64-103	5	30				
Naphthalene	95	86	61-102	10	30				
N-Nitrosodimethylamine	85	77	48-113	10	30				
Di-n-octylphthalate	120	116	40-192	3	30				
Phenanthrene	98	88	12-165	11	30				
Pyrene	93	84	15-153	9	30				
Batch number: 11091SLC026	Sample number(s): 6239175-6239178,6239180-6239184 UNSPK: 6239176								
Acenaphthene	85	86	75-115	2	30				
Acenaphthylene	90	92	81-110	3	30				
Aniline	63	66	35-95	7	30				
Anthracene	91	93	75-115	3	30				
Benzidine	43	43	35-141	0	30				
Benzo(a)anthracene	91	93	65-122	2	30				
Benzo(a)pyrene	99	102	57-126	4	30				
Benzo(b)fluoranthene	100	94	59-125	5	30				
Benzo(g,h,i)perylene	100	104	59-127	6	30				
Benzo(k)fluoranthene	95	109	56-132	15	30				
Benzoic acid	72	67	10-173	6	30				
Benzyl alcohol	82	82	67-115	2	30				
4-Bromophenyl-phenylether	96	97	67-129	2	30				
Butylbenzylphthalate	101	101	73-134	2	30				
Di-n-butylphthalate	87	88	67-123	2	30				
Carbazole	86	88	64-120	3	30				
4-Chloro-3-methylphenol	78	76	76-110	1	30				
4-Chloroaniline	36	47	23-95	28	30				
bis(2-Chloroethoxy)methane	78	79	75-104	2	30				
bis(2-Chloroethyl)ether	79	79	60-116	2	30				
bis(2-Chloroisopropyl)ether	64	64	55-142	1	30				
2-Chloronaphthalene	94	70	50-141	27	30				
2-Chlorophenol	90	91	73-121	2	30				
4-Chlorophenyl-phenylether	89	90	80-109	3	30				
Chrysene	96	95	62-128	1	30				
Dibenz(a,h)anthracene	100	102	65-125	4	30				
Dibenzofuran	89	89	71-112	1	30				
1,2-Dichlorobenzene	87	86	66-108	0	30				
1,3-Dichlorobenzene	83	84	63-109	2	30				
1,4-Dichlorobenzene	84	86	70-100	4	30				
3,3'-Dichlorobenzidine	63	68	16-119	10	30				
2,4-Dichlorophenol	93	93	78-117	1	30				
Diethylphthalate	81	82	66-118	2	30				
2,4-Dimethylphenol	80	79	78-110	0	30				
3,5-Dimethylphenol	86	87	70-130	2	30				
Dimethylphthalate	86	87	64-118	3	30				
4,6-Dinitro-2-methylphenol	81	76	24-116	4	30				
2,4-Dinitrophenol	62	57	20-143	8	30				
2,4-Dinitrotoluene	82	84	73-113	4	30				
2,6-Dinitrotoluene	85	86	69-123	3	30				
1,2-Diphenylhydrazine	78	79	71-129	3	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Ethylhexyl)phthalate	96	95	63-122	0	30				
Fluoranthene	84	84	73-112	2	30				
Fluorene	86	86	77-111	1	30				
Hexachlorobenzene	93	95	77-114	3	30				
Hexachlorobutadiene	88	89	62-120	2	30				
Hexachlorocyclopentadiene	64	67	10-153	6	30				
Hexachloroethane	74	77	57-109	4	30				
Indeno(1,2,3-cd)pyrene	99	103	61-126	5	30				
Isophorone	73	72*	73-102	1	30				
1-Methylnaphthalene	93	93	73-112	0	30				
2-Methylnaphthalene	87	85	76-114	1	30				
2-Methylphenol	83	83	75-111	2	30				
4-Methylphenol	85	86	71-111	3	30				
Naphthalene	88	87	72-116	1	30				
2-Nitroaniline	86	87	67-125	2	30				
3-Nitroaniline	81	80	59-122	0	30				
4-Nitroaniline	59	60	52-112	4	30				
Nitrobenzene	70*	70*	72-106	2	30				
2-Nitrophenol	92	92	74-115	1	30				
4-Nitrophenol	64	58	54-113	8	30				
N-Nitroso-di-n-propylamine	66	67	60-116	4	30				
N-Nitrosodimethylamine	64	65	47-116	2	30				
N-Nitrosodiphenylamine	99	100	86-145	2	30				
Di-n-octylphthalate	105	109	56-126	5	30				
Pentachlorophenol	81	80	28-127	1	30				
Phenanthrene	91	92	65-125	3	30				
Phenol	78	79	58-126	3	30				
Pyrene	109	109	74-126	2	30				
1,2,4-Trichlorobenzene	93	91	72-115	1	30				
2,4,5-Trichlorophenol	89	90	78-109	3	30				
2,4,6-Trichlorophenol	92	91	77-115	1	30				
Batch number: 11092SLB026	Sample number(s): 6239176-6239178,6239180-6239184 UNSPK: 6239176								
N-Nitrosodimethylamine	132*	140*	70-130	6	30				
Batch number: 11087A34A	Sample number(s): 6239176-6239178,6239180-6239184 UNSPK: 6239176								
9a TPH by EPA 8015B Gas C5-C12	69	70	39-118	1	30				
Batch number: 110900049A	Sample number(s): 6239176-6239178,6239180-6239184 UNSPK: 6239176								
4-Amino-2,6-Dinitrotoluene	106	103	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	103	103	80-137	0	50				
1,3-Dinitrobenzene	104	101	38-166	2	50				
2,4-Dinitrotoluene	99	97	80-131	1	50				
2,6-Dinitrotoluene	104	103	80-127	1	50				
HMX	96	94	63-128	2	50				
Nitrobenzene	92	90	80-125	2	50				
Nitroglycerin	95	93	80-120	1	50				
2-Nitrotoluene	103	102	80-122	1	50				
3-Nitrotoluene	104	102	72-119	2	50				
4-Nitrotoluene	102	101	80-125	1	50				
PETN	112	110	80-121	2	50				
RDX	99	99	75-129	1	50				
Tetryl	81	87	55-174	8	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3,5-Trinitrobenzene	98	100	82-126	2	50				
2,4,6-Trinitrotoluene	105	104	82-130	1	50				
Batch number: 110870004A	Sample number(s): 6239176-6239178,6239180-6239184 UNSPK: 6239176								
25a Formaldehyde 8315A	98	106	80-120	7	50				
Batch number: 110900040A	Sample number(s): 6239175-6239178,6239180-6239184 UNSPK: 6239176								
PCB-1016	86	84	29-146	2	50				
PCB-1260	75	93	39-149	17	50				
Batch number: 110900035A	Sample number(s): 6239176-6239178,6239180-6239184 UNSPK: 6239176								
EFH (C12-C14)	100	92	49-123	9	20				
EFH (C15-C20)	234*	114	49-123	69*	20				
EFH (C21-C30)	1671*	-112*	49-123	167*	20				
EFH (C30 - C40)	2421 (2)	-308 (2)	49-123	168*	20				
EFH (C8-C11)	79	67	49-123	10	20				
Batch number: 110870001A	Sample number(s): 6239176-6239178,6239180-6239184 UNSPK: 6239176								
Diethylene glycol	74	90	59-109	20	20				
Ethylene glycol	81	89	63-107	9	20				
Propylene glycol	81	87	63-107	7	20				
Batch number: 110880031A	Sample number(s): 6239176-6239178,6239180-6239184 UNSPK: 6239176								
Ethanol	77	80	48-130	4	20				
Isopropanol	79	82	12-149	4	20				
Methanol	78	81	43-138	4	20				
Batch number: 110920003A	Sample number(s): 6239176-6239178,6239180-6239184 UNSPK: 6239176								
m-Terphenyl	72*	80	75-125	10	20				
o-Terphenyl	88	97	75-125	10	20				
p-Terphenyl	71*	77	75-125	9	20				
Batch number: 110881026002A	Sample number(s): 6239175-6239184 UNSPK: 6239176 BKG: 6239176								
Antimony	24*	30*	75-125	17	20	0.0927 J	0.0625 J	39* (1)	20
Arsenic	123	120	75-125	2	20	3.63	3.46	5	20
Beryllium	113	103	75-125	8	20	0.407	0.397	3 (1)	20
Cadmium	105	108	75-125	0	20	0.119	0.0671 J	56* (1)	20
Chromium	129*	106	75-125	10	20	14.7	11.8	22*	20
Cobalt	107	108	75-125	2	20	5.84	4.58	24*	20
Copper	133*	120	75-125	8	20	8.68	6.67	26*	20
Lead	102	85	75-125	8	20	5.00	4.51	10	20
Nickel	138*	125	75-125	7	20	12.1	9.88	20	20
Silver	97	102	75-125	1	20	0.0231 J	0.0147 J	44* (1)	20
Thallium	116	91	75-125	17	20	0.213	0.203	4 (1)	20
Vanadium	115	81	75-125	9	20	30.6	25.7	18	20
Zinc	-70 (2)	-107 (2)	75-125	5	20	81.4	64.2	24*	20
Batch number: 110881026002B	Sample number(s): 6239175-6239184 UNSPK: 6239176 BKG: 6239176								
Selenium	101	88	75-125	15	20	0.104 J	0.0734 J	35* (1)	20
Batch number: 110881026002C	Sample number(s): 6239175-6239184 UNSPK: 6239176 BKG: 6239176								

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Molybdenum	108	111	75-125	0	20	0.424	0.353	18 (1)	20
Batch number: 110881026002D	Sample number(s): 6239175-6239184 UNSPK: 6239176 BKG: 6239176								
Barium	379 (2)	228 (2)	75-125	11	20	106	80.8	27*	20
Batch number: 110885708004	Sample number(s): 6239175-6239184 UNSPK: 6239176 BKG: 6239176								
Aluminum	2355 (2)	2579 (2)	75-125	2	20	12,800	11,700	9	20
Boron	97	96	84-115	2	20	6.80	6.48	5 (1)	20
Calcium	151 (2)	171 (2)	75-125	2	20	2,490	2,610	5	20
Iron	3391 (2)	2762 (2)	75-125	3	20	16,600	16,000	4	20
Lithium	100	102	82-114	1	20	19.8	21.2	7	20
Magnesium	283 (2)	378 (2)	75-125	4	20	3,610	3,550	2	20
Manganese	279 (2)	166 (2)	75-125	16	20	248	246	1	20
Phosphorus	151*	103	75-125	11	20	304	287	6	20
Potassium	198*	155*	75-125	9	20	3,190	2,970	7	20
Sodium	99	104	75-125	4	20	194	194	0 (1)	20
Strontium	102	99	75-115	3	20	15.6	13.7	13	20
Tin	88	86	80-110	3	20	2.93 J	3.04 J	4 (1)	20
Titanium	308 (2)	284 (2)	75-125	2	20	990	941	5	20
Zirconium	92	94	75-125	1	20	1.32 J	0.840 U	200* (1)	20
Batch number: 110885711002	Sample number(s): 6239175-6239184 UNSPK: 6239176 BKG: 6239176								
Mercury	90	92	65-135	5	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 11088102201B	Sample number(s): 6239176-6239177,6239179-6239184 UNSPK: 6239176 BKG: 6239176								
17a Cyanide by 9012B	101		75-125			0.17 U	0.17 U	0 (1)	20
Batch number: 11094094201A	Sample number(s): 6239175-6239177,6239179-6239184 UNSPK: 6239176 BKG: 6239176								
7a Perchlorate EPA 314.0	96		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11094495201A	Sample number(s): 6239175-6239177,6239179-6239184 UNSPK: 6239176 BKG: 6239176								
11a Anions by 300.0 - Fluoride	61*		80-120			2.8	2.8	0 (1)	20
11a Anions by 300.0 - Nitrate	94		80-120			1.7	1.7	4 (1)	20
Batch number: 11102243201A	Sample number(s): 6239175-6239177,6239179-6239184 UNSPK: 6239176 BKG: 6239176								
3a Cr VI by EPA 7199	98		75-125			0.20 U	0.47 J	200* (1)	20
Batch number: 11087039401A	Sample number(s): 6239175-6239176,6239179 BKG: 6239176								
18a pH by 9045C						8.28	8.27	0	1
Batch number: 11087039401B	Sample number(s): 6239180-6239184 BKG: 6239180								
18a pH by 9045C						6.64	6.64	0	1
Batch number: 11087182101A	Sample number(s): 6239175-6239176,6239179 BKG: 6239176								
32a OR Potential						480	475	1	6
Batch number: 11087182101B	Sample number(s): 6239180-6239184 BKG: 6239180								
32a OR Potential						419	422	1	6
Batch number: 11090162401A	Sample number(s): 6239175 BKG: P237969								
Moisture Content by 160.3						15.5	15.6	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238947
Reported: 05/05/11 at 12:18 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11101162401A	Sample number(s): 6239176-6239184					BKG: 6239176			
28a Moisture Content by 160.3						12.0	11.0	9	20
Moisture Content by 160.3						12.0	11.0	9	20
Moisture Content by 160.3						12.0	11.0	9	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110861AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6239175	100	103	98	94
6239176	97	97	100	94
6239177	99	100	103	96
6239178	96	95	102	95
6239180	97	96	98	93
6239181	98	96	100	91
6239182	99	99	98	94
6239183	99	99	100	91
6239184	97	98	99	92
Blank	99	101	98	96
LCS	99	103	101	99
MS	99	100	103	96
MSD	96	95	102	95
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110871AA

	Toluene-d8
6239185	96
Blank	95
LCS	98
LCSD	95
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110872AA

	Toluene-d8
6239175	90
6239176	94
6239177	96
6239178	94

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238947
Reported: 05/05/11 at 12:18 PM

Surrogate Quality Control

6239180	96
6239181	93
6239182	94
6239183	93
6239184	94
Blank	100
LCS	93
MS	96
MSD	94
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110883AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6239185	109	101	99	93
Blank	106	100	98	93
LCS	107	105	99	99
LCSD	106	105	99	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11089SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6239175	70	66	75
6239176	71	69	77
6239177	102	93	99
6239178	91	83	91
6239180	98	90	99
6239181	96	89	103
6239182	95	88	99
6239183	81	76	83
6239184	98	90	100
Blank	111	104	112
LCS	110	104	113
MS	102	93	99
MSD	91	83	91
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11091SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6239175	78	84	80	68	87	97
6239176	81	87	84	67	92	98
6239177	79	85	85	69	89	96
6239178	81	87	86	68	90	97
6239180	83	88	84	68	91	102
6239181	85	90	84	70	92	96
6239182	84	89	83	70	91	94
6239183	81	86	82	69	89	97
6239184	79	83	78	68	89	96
Blank	81	87	89	71	91	95

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238947
Reported: 05/05/11 at 12:18 PM

Surrogate Quality Control

LCS	80	85	89	69	88	93
MS	79	85	85	69	89	96
MSD	81	87	86	68	90	97
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11092SLB026

	N-Nitrosodimethylamine-d6
6239176	106
6239177	94
6239178	102
6239180	96
6239181	99
6239182	97
6239183	98
6239184	110
Blank	94
LCS	96
MS	94
MSD	102
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11087A34A

	Trifluorotoluene-F
6239176	74
6239177	78
6239178	78
6239180	77
6239181	74
6239182	75
6239183	75
6239184	79
Blank	86
LCS	85
MS	78
MSD	78
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11094A20A

	Trifluorotoluene-F
6239185	76
Blank	75
LCS	112
LCSD	115
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238947
Reported: 05/05/11 at 12:18 PM

Surrogate Quality Control

Batch number: 110870004A

	Butyraldehyde
6239176	97
6239177	103
6239178	103
6239180	94
6239181	99
6239182	104
6239183	100
6239184	97
Blank	103
LCS	100
MS	103
MSD	103
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110900040A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6239175	80	84
6239176	87	82
6239177	83	83
6239178	80	88
6239180	86	98
6239181	81	82
6239182	91	92
6239183	86	97
6239184	92	101
Blank	89	97
LCS	90	90
LCSD	91	98
MS	83	83
MSD	80	88
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 110900049A

	2-Nitro-m-xylene
6239176	111
6239177	111
6239178	108
6239180	112
6239181	108
6239182	103
6239183	106
6239184	112
Blank	108
LCS	285*
LCSD	97
MS	111
MSD	108

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238947
Reported: 05/05/11 at 12:18 PM

Surrogate Quality Control

Limits: 80-146

Analysis Name: 21a Glycols by 8015B
Batch number: 110870001A

	Tetramethylene glycol
6239176	80
6239177	98
6239178	86
6239180	90
6239181	75
6239182	77
6239183	73
6239184	69
Blank	107
LCS	108
MS	98
MSD	86

Limits: 29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 110880031A

	Acetone
6239176	76
6239177	78
6239178	79
6239180	86
6239181	80
6239182	78
6239183	76
6239184	79
Blank	95
LCS	95
MS	78
MSD	79

Limits: 42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110900035A

	Chlorobenzene	Orthoterphenyl
6239176	87	95
6239177	90	92
6239178	85	94
6239180	86	91
6239181	85	90
6239182	84	89
6239183	84	86
6239184	76	90
Blank	90	99
LCS	86	97
MS	90	92
MSD	85	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238947
Reported: 05/05/11 at 12:18 PM

Surrogate Quality Control

Limits: 37-125 47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110920003A

	n-Triacontane-d62
6239176	71
6239177	72
6239178	88
6239180	70
6239181	69
6239182	74
6239183	69
6239184	70
Blank	69
LCS	68
MS	72
MSD	88
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1238947 Samp6#6239175-85

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C	Perchlorate Confirmation by EPA 8260 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Endrin/Bz EPA 8330A	**Dioxin EPA 8012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
																											Amerald COC
SL-199-SA5A-SB-2.5-3.5	03.24.11	0859	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-199-SA5A-SB-3.0	03.24.11	0855	SOIL	NONE	4-Encores										X	X											
SL-223-SA5A-SB-4.0-5.0MS	03.24.11	1114	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-223-SA5A-SB-4.5MS	03.24.11	1111	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-223-SA5A-SB-8.5-9.5	03.24.11	1104	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
~~SL-223-SA5A-SB-9.0~~ *	03.24.11	1100	SOIL	NONE	5-Encores										X	X	X										
DUP10-SA5A-QC-032411	03.24.11	1058	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
DUP10-SA5A-QC-032411	03.24.11	1058	SOIL	NONE	5-Encores										X	X	X										
SL-226-SA5A-SB-4.0-5.0	03.24.11	1224	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-226-SA5A-SB-4.5	03.24.11	1219	SOIL	NONE	5-Encores										X	X	X										
SL-225-SA5A-SB-4.0-5.0	03.24.11	1433	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-225-SA5A-SB-4.5	03.24.11	1427	SOIL	NONE	5-Encores										X	X	X										
SL-224-SA5A-SB-4.0-5.0	03.24.11	1529	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-224-SA5A-SB-4.5	03.24.11	1524	SOIL	NONE	5-Encores										X	X	X										
TB-032411	03.24.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	03/24/2011 / 17:00	3/25/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8695 1432 3769, ...3770.	

* Sample ID updated to SL-223-SA5A-SB-9.0 per PH. mk 3/29/11

acct#13013 Cp#1238947 Sample#623175-85

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
§ Moisture by EPA 160.3 will be performed on soil to 90 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B §	1,4-Dioxane EPA 8260SIM §	TPH-GRO EPA 8015B §	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
	3/24/11																										Amended COC
SL-199-SA5A-SB-2.5	3/24/11	0855	SOIL	None	2-16oz jars	X	X	X	X	X	X	X	X														
SL-199-SA5A-SB-3.0		0855			4-Encores										X	X											
SL-223-SA5A-SB-4.0-5.0	NS	1114			12-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-223-SA5A-SB-4.5	NS	1111			15-Encores										X	X	X										MS/MSD
SL-223-SA5A-SB-8.5-9.5		1104			4-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
* ~~SL-223-SA5A-SB-8.0~~		1100			5-Encores										X	X	X										
DUP10-SA5A-QC-032411		1058			9-16oz jars	X	X	X	X	X	X	X	X		/			X	X	X	X	X	X	X	X	X	
DUP10-SA5A-QC-032411		1058			5-Encores										X	X	X										
SL-226-SA5A-4.0-5.0		1224			9-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-226-SA5A-5		1219			5-encores										X	X	X										
SL-225-SA5A-4.0-5.0		1433			9-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-225-SA5A-4.5		1427			5-encores										X	X	X										
SL-224-SA5A-4.0-5.0		1529			4-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-224-SA5A-4.5		1524			5-encores																						
TB-0324-11		0800	WATER	HCL	4-40mL VOA vials										X	X	X										TRIP Blank

Relinquished by: (Signature) — Date/Time: 3/24/11 1700 — Received for Laboratory by: (Signature) — 3/25/11 915 — Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time — Airbill No.(s): 8695 1432 3769 ... 3770

* Sample ID updated to SL-223-SA5A-SB-9.0 per PM. mrg 3/29/11

acct# 13013 Cp# 1238947 samp6# 6239175-85

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
§ Moisture by EPA 160.3 will be performed as well in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	**Hex Chrome EPA 7196 @	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs EPA 8260B §	1,4-Dioxane EPA 8260SIM §	TPH-DRO EPA 8015B §	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Dyestuffs EPA 8012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
																											Amended COC
SL-199-SASA-SB2.5-3.5	3/24/11	0859	So.1	None	2 16oz jars	X	X	X	X	X	X	X	X														
SL-199-SASA-SB-3.0	↓	0855	↓	↓	4 Encores										XX												
SL-223-SASA-SB-4.0-5.0MS		1114			12 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	12 16oz Jars MS/MSD
SL-223-SASA-SB-4.5MS		1111			15 Encores										XX	X	X										15 Encores MS/MSD
SL-223-SASA-SB-8.5-9.5		1104			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	4 16oz Jars
* ~~SL-223-SASA-SB-8.5~~		1100			5 Encores										XX	X	X										5 Encores
DUP10-SASA-QC-032411		1058			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	4 16oz Jars
DUP10-SASA-QC-032411		1058			5 Encores										XX	X	X										5 Encores
SL-226-SASA-SB-4.0-5.0		1224			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	4 16oz Jars
↓ -4.5		1219			5 Encores										XX	X	X										5 Encores
SL-225-SASA-SB-4.0-5.0		1433			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
↓ -4.5		1429			5 Encores										XX	X	X										
SL-224-SASA-SB-4.0-5.0		1529			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
↓ -4.5		1524			5 Encores										XX	X	X										
TB-032411	↓	0800	↓	↓	4-40ml Vials										XX	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		Laboratory:
	3/24/11 1700		3/25/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)		
		8695 14323769, 3770		

* Sample ID updated to SL-223-SASA-SB-9.0 per PM. MKL 3/29/11

Natalie R. Luciano

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Tuesday, March 29, 2011 10:57 AM
To: Natalie R. Luciano
Subject: COC-SSFL 032811

Hi Natalie

I will be taking over as FTL at Santa Susana. Please let me know if you have any problems with yesterdays samples/COCs and I will make sure to make corrections in my methods!

I have gone through our COC's from last week and found an error that I would like to check on with you. On the 03/24/2011 COC a sample is listed as "SL-223-SA5A-SB-8.0" (time-1100). It should be "SL-223-SA5A-SB-9.0".

Thanks!

Pam

acct#13013 Cp#1238947 Samp6#6239175-85

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-199-SA5A-SB-2.5-3.5	03.24.11	0859	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-199-SA5A-SB-3.0	03.24.11	0855	SOIL	NONE	4-Encores										X	X											
SL-223-SA5A-SB-4.0-5.0MS	03.24.11	1114	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-223-SA5A-SB-4.5MS	03.24.11	1111	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-223-SA5A-SB-8.5-9.5	03.24.11	1104	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-223-SA5A-SB-8.0	03.24.11	1100	SOIL	NONE	5-Encores										X	X	X										
DUP10-SA5A-QC-032411	03.24.11	1058	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
DUP10-SA5A-QC-032411	03.24.11	1058	SOIL	NONE	5-Encores										X	X	X										
SL-226-SA5A-SB-4.0-5.0	03.24.11	1224	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-226-SA5A-SB-4.5	03.24.11	1219	SOIL	NONE	5-Encores										X	X	X										
SL-225-SA5A-SB-4.0-5.0	03.24.11	1433	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-225-SA5A-SB-4.5	03.24.11	1427	SOIL	NONE	5-Encores										X	X	X										
SL-224-SA5A-SB-4.0-5.0	03.24.11	1529	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-224-SA5A-SB-4.5	03.24.11	1524	SOIL	NONE	5-Encores										X	X	X										
TB-032411	03.24.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 03/24/2011 / 17:00		Received for Laboratory by: (*Signature*) 3/25/11 915																								Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8695 1432 3769, ...3770.																								

acct# 13013 Cap# 1238947 Sample# 623175-85

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-199-SA5A-SB-2.5	3/24/11	0859	SOIL	None	2-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-199-SA5A-SB-3.0		0855			4-Encores										X	X											
SL-223-SA5A-SB-4.0-5.0 MS		1114			12-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-223-SA5A-SB-4.5 MS		1111			15-Encores										X	X	X										MS/MSD
SL-223-SA5A-SB-8.5		1104			4-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-223-SA5A-SB-8.0		1100			5-Encores										X	X	X										
DUP10-SA5A-QC-032411		1058			4-16oz jars	X	X	X	X	X	X	X	X		/			X	X	X	X	X	X	X	X	X	
DUP10-SA5A-QC-032411		1058			5-Encores										X	X	X										
SL-226-SA5A-SB 4.0-5.0		1224			4-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-226-SA5A-SB 4.5		1219			5-encores										X	X	X										
SL-225-SA5A-SB 4.0-5.0		1433			4-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-225-SA5A-SB 4.5		1427			5-encores										X	X	X										
SL-224-SA5A-SB 4.0-5.0		1529			4-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-224-SA5A-SB 4.5		1524			5-encores																						
TB-0324-11		0800	WATER	HCL	4-40mL Voa vials										X	X	X										TRIP Blank

Relinquished by: (Signature) — Date/Time 3/24/11 1700 — Received for Laboratory by: (Signature) — 3/25/11 915

Received by: (Signature) — Date/Time — Airbill No.(s) 8695 1432 3769 ... 3770

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Cap# 1238947 samp6# 62.39175-85

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	**Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 8650 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-199-SASA-SB2.5-3.5	3/24/11	0859	So:l	None	2 16oz jars	X	X	X	X	X	X	X	X														
SL-199-SASA-SB-3.0		0855			4 encore										X	X											
SL-223-SASA-SB-4.0-5.0MS		1114			12 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	12 16oz Jars MS/MSD
SL-223-SASA-SB-4.5MS		1111			15 encore										X	X	X										15 Encored MS/MSD
SL-223-SASA-SB-8.5-9.5		1104			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	4 16oz Jars
SL-223-SASA-SB-8.5		1100			5 Encore										X	X	X										5 Encored
DUP-10-SASA-QC-032411		1058			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	4 16oz Jars
DUP10-SASA-QC-032411		1058			5 Encore										X	X	X										5 Encored
SL-226-SASA-SB-4.0-5.0		1224			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	4 16oz Jars
↓ -4.5		1219			5 Encore										X	X	X										5 Encored
SL-225-SASA-SB-4.0-5.0		1433			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
↓ -4.5		1427			5 Encore										X	X	X										
SL-224-SASA-SB-4.0-5.0		1529			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
↓ -4.5		1524			5 Encore										X	X	X										
TB-032411	↓	0800	↓	↓	4 40ml Vials										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	3/24/11 1700	3/25/11 916	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s):	
		8695 1432 3769, 3770	

May 6, 2011

Mr. Todd Burgesser
CDM
Suite 1100
555 17th Street
Denver, CO 80202

Dear Mr. Burgesser:

I am writing to inform you of revised analytical reports that are being issued for the following:

Project No. SSFL Area IV Collocated Soil Sampling

Group No. 1238947 **SDG No.: DE112**

LLI Sample No.	Client Sample Identification	Collection Date
6239175	SL-199-SA5A-SB-2.5-3.5 Soil	3/24/2011
6239176	SL-223-SA5A-SB-4.0-5.0 Soil	3/24/2011
6239177	SL-223-SA5A-SB-4.0-5.0MS Soil	3/24/2011
6239178	SL-223-SA5A-SB-4.0-5.0MSD Soil	3/24/2011
6239179	SL-223-SA5A-SB-4.0-5.0DUP Soil	3/24/2011
6239180	SL-223-SA5A-SB-8.5-9.5 Soil	3/24/2011
6239181	DUP10-SA5A-QC-032411 Soil	3/24/2011
6239182	SL-226-SA5A-SB-4.0-5.0 Soil	3/24/2011
6239183	SL-225-SA5A-SB-4.0-5.0 Soil	3/24/2011
6239184	SL-224-SA5A-SB-4.0-5.0 Soil	3/24/2011

Group No. 1239129 **SDG No.: DE122**

LLI Sample No.	Client Sample Identification	Collection Date
6240605	SL-213-SA5A-SB-4.0-5.0 Soil	3/25/2011
6240606	SL-213-SA5A-SB-8.0-9.0 Soil	3/25/2011
6240607	SL-143-SA5A-SB-4.0-5.0 Soil	3/25/2011
6240608	SL-143-SA5A-SB-8.0-9.0 Soil	3/25/2011
6240609	SL-144-SA5A-SB-4.0-5.0 Soil	3/25/2011
6240610	SL-144-SA5A-SB-7.0-8.0 Soil	3/25/2011

The correction to the data affects the Quality Control Summary for the Hexavalent Chromium analysis only.

During an additional review of this data, it was determined that the percent recovery reported for the Laboratory Control Standard was incorrect at 93%. The correct percent recovery is 94%. This correction does not change any of the reported values for the samples.

The revised analytical reports reflect these corrections and are enclosed.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1264. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,

Erik Frederiksen
Manager
Environmental Sciences Division

EF/mcs
Enclosures

cc: Nicole Maljovec

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/25/2011
Group Number: 1238948
SDG: DX064
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-199-SA5A-SB-2.5-3.5 Soil	6239186
SL-223-SA5A-SB-4.0-5.0 Soil	6239187
SL-223-SA5A-SB-4.0-5.0MS Soil	6239188
SL-223-SA5A-SB-4.0-5.0MSD Soil	6239189
SL-223-SA5A-SB-8.5-9.5 Soil	6239190
DUP10-SA5A-QC-032411 Soil	6239191
SL-226-SA5A-SB-4.0-5.0 Soil	6239192
SL-225-SA5A-SB-4.0-5.0 Soil	6239193
SL-224-SA5A-SB-4.0-5.0 Soil	6239194

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-199-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5A-SB-2.5-3.5

LLI Sample # SW 6239186
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 08:59

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6408 SDG#: DX064-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-199-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5A-SB-2.5-3.5

LLI Sample # SW 6239186
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 08:59

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6408 SDG#: DX064-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0173 J	0.0134	1.07	1
11031	12378-PeCDD	40321-76-4	0.0400 JBQ	0.0149	5.35	1
11031	123478-HxCDD	39227-28-6	0.0151 U	0.0151	5.35	1
11031	123678-HxCDD	57653-85-7	0.0640 JB	0.0135	5.35	1
11031	123789-HxCDD	19408-74-3	0.107 JB	0.0115	5.35	1
11031	1234678-HpCDD	35822-46-9	0.136 JB	0.0196	5.35	1
11031	OCDD	3268-87-9	0.429 JB	0.0370	10.7	1
11031	2378-TCDF	51207-31-9	0.0325 JB	0.00996	1.07	1
11031	12378-PeCDF	57117-41-6	0.0487 JBQ	0.00685	5.35	1
11031	23478-PeCDF	57117-31-4	0.0583 JB	0.00717	5.35	1
11031	123478-HxCDF	70648-26-9	0.0173 U	0.0173	5.35	1
11031	123678-HxCDF	57117-44-9	0.0265 JB	0.0113	5.35	1
11031	123789-HxCDF	72918-21-9	0.0422 JBQ	0.00814	5.35	1
11031	234678-HxCDF	60851-34-5	0.0513 JB	0.00653	5.35	1
11031	1234678-HpCDF	67562-39-4	0.0562 JBQ	0.0104	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0306 JBQ	0.00953	5.35	1
11031	OCDF	39001-02-0	0.129 JB	0.0213	10.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	62	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	44	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	51	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-199-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5A-SB-2.5-3.5

LLI Sample # SW 6239186
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 08:59

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6408 SDG#: DX064-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-199-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5A-SB-2.5-3.5

LLI Sample # SW 6239186
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 08:59

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6408 SDG#: DX064-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/08/2011 01:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11090162401A	03/31/2011 19:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-223-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239187
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6409 SDG#: DX064-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-223-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239187
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6409 SDG#: DX064-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0163	U	0.0163	1.14	1
11031	12378-PeCDD	40321-76-4	0.101	JBQ	0.0213	5.68	1
11031	123478-HxCDD	39227-28-6	0.104	JB	0.0472	5.68	1
11031	123678-HxCDD	57653-85-7	0.587	JBQ	0.0453	5.68	1
11031	123789-HxCDD	19408-74-3	0.403	JB	0.0424	5.68	1
11031	1234678-HpCDD	35822-46-9	13.3	B	0.0470	5.68	1
11031	OCDD	3268-87-9	144	B	0.0519	11.4	1
11031	2378-TCDF	51207-31-9	0.351	JB	0.0586	1.14	1
11031	12378-PeCDF	57117-41-6	0.172	JB	0.0220	5.68	1
11031	23478-PeCDF	57117-31-4	0.700	JB	0.0224	5.68	1
11031	123478-HxCDF	70648-26-9	0.345	JB	0.0491	5.68	1
11031	123678-HxCDF	57117-44-9	0.254	JB	0.0357	5.68	1
11031	123789-HxCDF	72918-21-9	0.330	JBQ	0.0306	5.68	1
11031	234678-HxCDF	60851-34-5	0.418	JB	0.0281	5.68	1
11031	1234678-HpCDF	67562-39-4	2.54	JB	0.0319	5.68	1
11031	1234789-HpCDF	55673-89-7	0.298	JB	0.0265	5.68	1
11031	OCDF	39001-02-0	3.26	JB	0.0234	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-223-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239187
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6409 SDG#: DX064-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-223-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239187
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6409 SDG#: DX064-09BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/08/2011 05:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-223-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239188
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6409 SDG#: DX064-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-223-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239188
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6409 SDG#: DX064-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	24.4		0.0206	1.14	1
11031	12378-PeCDD	40321-76-4	126	B	0.0353	5.68	1
11031	123478-HxCDD	39227-28-6	126	B	0.0540	5.68	1
11031	123678-HxCDD	57653-85-7	125	B	0.0520	5.68	1
11031	123789-HxCDD	19408-74-3	124	B	0.0480	5.68	1
11031	1234678-HpCDD	35822-46-9	122	B	0.0506	5.68	1
11031	OCDD	3268-87-9	251	B	0.0448	11.4	1
11031	2378-TCDF	51207-31-9	26.2	B	0.0581	1.14	1
11031	12378-PeCDF	57117-41-6	122	B	0.0403	5.68	1
11031	23478-PeCDF	57117-31-4	121	B	0.0384	5.68	1
11031	123478-HxCDF	70648-26-9	122	B	0.103	5.68	1
11031	123678-HxCDF	57117-44-9	120	B	0.0741	5.68	1
11031	123789-HxCDF	72918-21-9	119	B	0.0605	5.68	1
11031	234678-HxCDF	60851-34-5	121	B	0.0515	5.68	1
11031	1234678-HpCDF	67562-39-4	118	B	0.0499	5.68	1
11031	1234789-HpCDF	55673-89-7	119	B	0.0439	5.68	1
11031	OCDF	39001-02-0	238	B	0.0466	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-223-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239188
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6409 SDG#: DX064-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-223-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239188
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6409 SDG#: DX064-09MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/08/2011 06:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-223-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239189
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6409 SDG#: DX064-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-223-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239189
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6409 SDG#: DX064-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	24.9		0.0191	1.14	1
11031	12378-PeCDD	40321-76-4	124	B	0.0319	5.68	1
11031	123478-HxCDD	39227-28-6	125	B	0.0411	5.68	1
11031	123678-HxCDD	57653-85-7	124	B	0.0400	5.68	1
11031	123789-HxCDD	19408-74-3	123	B	0.0364	5.68	1
11031	1234678-HpCDD	35822-46-9	123	B	0.0490	5.68	1
11031	OCDD	3268-87-9	258	B	0.0416	11.4	1
11031	2378-TCDF	51207-31-9	26.7	B	0.0441	1.14	1
11031	12378-PeCDF	57117-41-6	119	B	0.0278	5.68	1
11031	23478-PeCDF	57117-31-4	121	B	0.0259	5.68	1
11031	123478-HxCDF	70648-26-9	120	B	0.0905	5.68	1
11031	123678-HxCDF	57117-44-9	119	B	0.0634	5.68	1
11031	123789-HxCDF	72918-21-9	119	B	0.0540	5.68	1
11031	234678-HxCDF	60851-34-5	120	B	0.0475	5.68	1
11031	1234678-HpCDF	67562-39-4	119	B	0.0455	5.68	1
11031	1234789-HpCDF	55673-89-7	119	B	0.0435	5.68	1
11031	OCDF	39001-02-0	237	B	0.0494	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	96	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-223-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239189
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6409 SDG#: DX064-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-223-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-4.0-5.0

LLI Sample # SW 6239189
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:14

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6409 SDG#: DX064-09MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/08/2011 06:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-223-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-8.5-9.5

LLI Sample # SW 6239190
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:04

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6410 SDG#: DX064-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-223-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-8.5-9.5

LLI Sample # SW 6239190
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:04

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6410 SDG#: DX064-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0122 U	0.0122	1.06	1
11031	12378-PeCDD	40321-76-4	0.0715 JBQ	0.0144	5.32	1
11031	123478-HxCDD	39227-28-6	0.0315 JBQ	0.0138	5.32	1
11031	123678-HxCDD	57653-85-7	0.0581 JBQ	0.0129	5.32	1
11031	123789-HxCDD	19408-74-3	0.0566 JB	0.0114	5.32	1
11031	1234678-HpCDD	35822-46-9	0.186 JB	0.0154	5.32	1
11031	OCDD	3268-87-9	0.646 JB	0.0304	10.6	1
11031	2378-TCDF	51207-31-9	0.0248 JB	0.00883	1.06	1
11031	12378-PeCDF	57117-41-6	0.0850 JBQ	0.00649	5.32	1
11031	23478-PeCDF	57117-31-4	0.0959 JBQ	0.00617	5.32	1
11031	123478-HxCDF	70648-26-9	0.0205 U	0.0205	5.32	1
11031	123678-HxCDF	57117-44-9	0.0541 JB	0.0140	5.32	1
11031	123789-HxCDF	72918-21-9	0.0740 JBQ	0.0100	5.32	1
11031	234678-HxCDF	60851-34-5	0.0761 JBQ	0.00872	5.32	1
11031	1234678-HpCDF	67562-39-4	0.108 JB	0.0109	5.32	1
11031	1234789-HpCDF	55673-89-7	0.0713 JBQ	0.00957	5.32	1
11031	OCDF	39001-02-0	0.171 JBQ	0.0180	10.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-223-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-8.5-9.5

LLI Sample # SW 6239190
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:04

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6410 SDG#: DX064-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-223-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-223-SA5A-SB-8.5-9.5

LLI Sample # SW 6239190
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 11:04

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6410 SDG#: DX064-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/08/2011 07:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP10-SA5A-QC-032411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5A-QC-032411

LLI Sample # SW 6239191
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 10:58

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6411 SDG#: DX064-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP10-SA5A-QC-032411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5A-QC-032411

LLI Sample # SW 6239191
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 10:58

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6411 SDG#: DX064-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0207	JQ	0.0140	1.11	1
11031	12378-PeCDD	40321-76-4	0.135	JB	0.0220	5.54	1
11031	123478-HxCDD	39227-28-6	0.0244	JBQ	0.0238	5.54	1
11031	123678-HxCDD	57653-85-7	0.321	JB	0.0244	5.54	1
11031	123789-HxCDD	19408-74-3	0.388	JB	0.0223	5.54	1
11031	1234678-HpCDD	35822-46-9	1.08	JB	0.0309	5.54	1
11031	OCDD	3268-87-9	10.7	JB	0.0360	11.1	1
11031	2378-TCDF	51207-31-9	0.0947	JBQ	0.0408	1.11	1
11031	12378-PeCDF	57117-41-6	0.0298	U	0.0298	5.54	1
11031	23478-PeCDF	57117-31-4	0.410	JB	0.0287	5.54	1
11031	123478-HxCDF	70648-26-9	1.13	JB	0.0495	5.54	1
11031	123678-HxCDF	57117-44-9	0.132	JB	0.0357	5.54	1
11031	123789-HxCDF	72918-21-9	0.342	JB	0.0368	5.54	1
11031	234678-HxCDF	60851-34-5	0.104	JB	0.0307	5.54	1
11031	1234678-HpCDF	67562-39-4	0.315	JB	0.0144	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0537	JBQ	0.0167	5.54	1
11031	OCDF	39001-02-0	0.532	JB	0.0235	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	94	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	94	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	97	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	93	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	99	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	94	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	82	17 - 157
13C12-1278-TCDD (CRS)	103	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP10-SA5A-QC-032411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5A-QC-032411

LLI Sample # SW 6239191
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 10:58

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6411 SDG#: DX064-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **DUP10-SA5A-QC-032411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5A-QC-032411

LLI Sample # SW 6239191
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 10:58

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6411 SDG#: DX064-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/08/2011 08:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-226-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-226-SA5A-SB-4.0-5.0

LLI Sample # SW 6239192
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 12:24

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6412 SDG#: DX064-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-226-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-226-SA5A-SB-4.0-5.0

LLI Sample # SW 6239192
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 12:24

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6412 SDG#: DX064-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0166	U	0.0166	1.13	1
11031	12378-PeCDD	40321-76-4	0.0393	JB	0.0249	5.66	1
11031	123478-HxCDD	39227-28-6	0.0310	JBQ	0.0217	5.66	1
11031	123678-HxCDD	57653-85-7	0.154	JB	0.0205	5.66	1
11031	123789-HxCDD	19408-74-3	0.173	JB	0.0178	5.66	1
11031	1234678-HpCDD	35822-46-9	1.98	JB	0.0436	5.66	1
11031	OCDD	3268-87-9	20.0	B	0.0450	11.3	1
11031	2378-TCDF	51207-31-9	0.0163	U	0.0163	1.13	1
11031	12378-PeCDF	57117-41-6	0.0551	JBQ	0.0110	5.66	1
11031	23478-PeCDF	57117-31-4	0.268	JB	0.0112	5.66	1
11031	123478-HxCDF	70648-26-9	0.0665	JBQ	0.0254	5.66	1
11031	123678-HxCDF	57117-44-9	0.0671	JBQ	0.0165	5.66	1
11031	123789-HxCDF	72918-21-9	0.0929	JB	0.0152	5.66	1
11031	234678-HxCDF	60851-34-5	0.0938	JB	0.0118	5.66	1
11031	1234678-HpCDF	67562-39-4	0.404	JB	0.0191	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0672	JBQ	0.0197	5.66	1
11031	OCDF	39001-02-0	0.800	JB	0.0302	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-226-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-226-SA5A-SB-4.0-5.0

LLI Sample # SW 6239192
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 12:24

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6412 SDG#: DX064-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-226-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-226-SA5A-SB-4.0-5.0

LLI Sample # SW 6239192
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 12:24

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6412 SDG#: DX064-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/08/2011 09:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-225-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5A-SB-4.0-5.0

LLI Sample # SW 6239193
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 14:33

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6413 SDG#: DX064-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-225-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5A-SB-4.0-5.0

LLI Sample # SW 6239193
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 14:33

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6413 SDG#: DX064-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0129	U	0.0129	1.18	1
11031	12378-PeCDD	40321-76-4	0.0375	JBQ	0.0247	5.91	1
11031	123478-HxCDD	39227-28-6	0.0225	U	0.0225	5.91	1
11031	123678-HxCDD	57653-85-7	0.201	JB	0.0214	5.91	1
11031	123789-HxCDD	19408-74-3	0.322	JB	0.0201	5.91	1
11031	1234678-HpCDD	35822-46-9	0.931	JB	0.0314	5.91	1
11031	OCDD	3268-87-9	11.5	JB	0.0307	11.8	1
11031	2378-TCDF	51207-31-9	0.0287	U	0.0287	1.18	1
11031	12378-PeCDF	57117-41-6	0.0249	U	0.0249	5.91	1
11031	23478-PeCDF	57117-31-4	0.651	JB	0.0252	5.91	1
11031	123478-HxCDF	70648-26-9	1.15	JB	0.0517	5.91	1
11031	123678-HxCDF	57117-44-9	0.0597	JBQ	0.0348	5.91	1
11031	123789-HxCDF	72918-21-9	0.221	JB	0.0359	5.91	1
11031	234678-HxCDF	60851-34-5	0.0883	JB	0.0293	5.91	1
11031	1234678-HpCDF	67562-39-4	0.290	JB	0.0115	5.91	1
11031	1234789-HpCDF	55673-89-7	0.0455	JB	0.0167	5.91	1
11031	OCDF	39001-02-0	0.596	JB	0.0236	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-225-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5A-SB-4.0-5.0

LLI Sample # SW 6239193
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 14:33

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6413 SDG#: DX064-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-225-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5A-SB-4.0-5.0

LLI Sample # SW 6239193
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 14:33

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6413 SDG#: DX064-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/08/2011 10:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-224-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-224-SA5A-SB-4.0-5.0

LLI Sample # SW 6239194
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 15:29

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6414 SDG#: DX064-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-224-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-224-SA5A-SB-4.0-5.0

LLI Sample # SW 6239194
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 15:29

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6414 SDG#: DX064-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0382	JQ	0.0188	1.11	1
11031	12378-PeCDD	40321-76-4	0.186	JBQ	0.0186	5.57	1
11031	123478-HxCDD	39227-28-6	0.106	JBQ	0.0219	5.57	1
11031	123678-HxCDD	57653-85-7	0.181	JB	0.0216	5.57	1
11031	123789-HxCDD	19408-74-3	0.234	JB	0.0177	5.57	1
11031	1234678-HpCDD	35822-46-9	0.284	JB	0.0197	5.57	1
11031	OCDD	3268-87-9	0.860	JB	0.0294	11.1	1
11031	2378-TCDF	51207-31-9	0.0328	JBQ	0.0142	1.11	1
11031	12378-PeCDF	57117-41-6	0.165	JB	0.00959	5.57	1
11031	23478-PeCDF	57117-31-4	0.184	JB	0.0101	5.57	1
11031	123478-HxCDF	70648-26-9	0.171	JBQ	0.0366	5.57	1
11031	123678-HxCDF	57117-44-9	0.189	JBQ	0.0250	5.57	1
11031	123789-HxCDF	72918-21-9	0.243	JB	0.0210	5.57	1
11031	234678-HxCDF	60851-34-5	0.170	JB	0.0171	5.57	1
11031	1234678-HpCDF	67562-39-4	0.198	JB	0.0176	5.57	1
11031	1234789-HpCDF	55673-89-7	0.196	JBQ	0.0200	5.57	1
11031	OCDF	39001-02-0	0.365	JB	0.0263	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-224-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-224-SA5A-SB-4.0-5.0

LLI Sample # SW 6239194
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 15:29

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6414 SDG#: DX064-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-224-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-224-SA5A-SB-4.0-5.0

LLI Sample # SW 6239194
LLI Group # 1238948
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/24/2011 15:29

Submitted: 03/25/2011 09:15
Reported: 04/22/2011 16:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6414 SDG#: DX064-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/13/2011 01:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238948
Reported: 04/22/11 at 04:37 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11090162401A	Sample number(s): 6239186								
Moisture Content by 160.3					100		80-120		
Batch number: 11101162401A	Sample number(s): 6239187-6239194								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11094001	Sample number(s): 6239186-6239194								
2378-TCDD	0.0143 U	0.0143	1.00	ng/kg	109		67-158		
12378-PeCDD	0.0313 J	0.0144	5.00	ng/kg	109		70-142		
123478-HxCDD	0.0177 J	0.0147	5.00	ng/kg	108		70-164		
123678-HxCDD	0.0207 J	0.0155	5.00	ng/kg	107		76-134		
123789-HxCDD	0.0266 J	0.0143	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.231 J	0.0256	5.00	ng/kg	105		70-140		
OCDD	0.889 J	0.0464	10.0	ng/kg	103		78-144		
2378-TCDF	0.0202 J	0.0118	1.00	ng/kg	115		75-158		
12378-PeCDF	0.0280 J	0.00770	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0638 J	0.00740	5.00	ng/kg	105		68-160		
123478-HxCDF	0.0298 J	0.0127	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0271 J	0.0100	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0264 J	0.0109	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0678 J	0.00950	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.184 J	0.0103	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0521 J	0.0130	5.00	ng/kg	102		78-138		
OCDF	0.213 J	0.0190	10.0	ng/kg	101		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11090162401A	Sample number(s): 6239186 BKG: P237969								
Moisture Content by 160.3						15.5	15.6	1	20
Batch number: 11101162401A	Sample number(s): 6239187-6239194 BKG: P239176								
Moisture Content by 160.3						12.0	11.0	9	20
Batch number: 11094001	Sample number(s): 6239186-6239194 UNSPK: 6239187								
2378-TCDD	107	110	67-158	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238948
Reported: 04/22/11 at 04:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	111	109	70-142	1	25				
123478-HxCDD	111	110	70-164	0	25				
123678-HxCDD	109	109	76-134	0	25				
123789-HxCDD	108	108	64-162	1	25				
1234678-HpCDD	96	96	70-140	0	25				
OCDD	47*	50*	78-144	3	25				
2378-TCDF	114	116	75-158	2	25				
12378-PeCDF	107	105	80-134	3	25				
23478-PeCDF	106	106	68-160	1	25				
123478-HxCDF	107	105	72-134	2	25				
123678-HxCDF	106	105	84-130	1	25				
123789-HxCDF	104	104	78-130	0	25				
234678-HxCDF	106	106	70-156	1	25				
1234678-HpCDF	102	102	82-122	1	25				
1234789-HpCDF	105	104	78-138	0	25				
OCDF	103	103	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11094001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6239186	78	77	29	44	74	66
6239187	67	68	44	57	72	74
6239188	83	94	45	63	88	83
6239189	82	96	47	65	86	84
6239190	78	87	36	52	80	76
6239191	94	99	63	84	94	89
6239192	77	82	36	55	78	69
6239193	80	84	49	70	79	70
6239194	75	71	37	53	72	67
Blank	73	73	55	69	72	68
MS	83	94	45	63	88	83
MSD	82	96	47	65	86	84
OPR	72	66	26	40	70	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6239186	51	63	56	92	82	62
6239187	55	73	63	75	73	68
6239188	65	82	75	96	91	77
6239189	69	80	74	92	94	77
6239190	57	75	67	94	87	71

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1238948
Reported: 04/22/11 at 04:37 PM

Surrogate Quality Control

6239191	91	87	82	103	97	94
6239192	61	66	59	88	84	67
6239193	83	67	63	94	86	78
6239194	62	63	58	81	78	66
Blank	77	70	69	93	75	73
MS	65	82	75	96	91	77
MSD	69	80	74	92	94	77
OPR	45	65	59	85	76	58
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6239186	71	80	78	77	76	89
6239187	71	73	72	62	61	77
6239188	84	88	87	84	86	96
6239189	86	88	87	83	83	96
6239190	80	85	85	81	78	91
6239191	94	96	97	94	93	103
6239192	76	82	80	78	76	88
6239193	82	84	86	83	78	95
6239194	68	79	76	78	72	82
Blank	76	76	79	80	72	79
MS	84	88	87	84	86	96
MSD	86	88	87	83	83	96
OPR	69	78	78	79	68	79
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1238948 Samp6# 6239186-94

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010M/6020M/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Cr(III)/Cr(VI) EPA 1618B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	%H EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/M $	TPH-DRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahydrofuran EPA 8015B	**Dioxins EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-199-SA5A-SB-2.5-3.5	03.24.11	0859	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X															
SL-199-SA5A-SB-3.0	03.24.11	0855	SOIL	NONE	4-Encores										X	X												
SL-223-SA5A-SB-4.0-5.0MS	03.24.11	1114	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD	
SL-223-SA5A-SB-4.5MS	03.24.11	1111	SOIL	NONE	15-Encores										X	X	X										MS/MSD	
SL-223-SA5A-SB-8.5-9.5	03.24.11	1104	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
~~SL-225-SA5A-SB-8.0~~ *	03.24.11	1100	SOIL	NONE	5-Encores										X	X	X											
DUP10-SA5A-QC-032411	03.24.11	1058	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
DUP10-SA5A-QC-032411	03.24.11	1058	SOIL	NONE	5-Encores										X	X	X											
SL-226-SA5A-SB-4.0-5.0	03.24.11	1224	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-226-SA5A-SB-4.5	03.24.11	1219	SOIL	NONE	5-Encores										X	X	X											
SL-225-SA5A-SB-4.0-5.0	03.24.11	1433	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-225-SA5A-SB-4.5	03.24.11	1427	SOIL	NONE	5-Encores										X	X	X											
SL-224-SA5A-SB-4.0-5.0	03.24.11	1529	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-224-SA5A-SB-4.5	03.24.11	1524	SOIL	NONE	5-Encores										X	X	X											
TB-032411	03.24.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X											TRIP BLANK

Amended COC

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	03/24/2011 / 17:00	3/25/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1432 3769, ...3770.	

* Sample ID updated to SL-223-SA5A-SB-9.0 per PH. MKJ 3/29/11

Acct# 13013 Cp# 1238948 Sample# 6239186-94

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
§ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	Chlorin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196	pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B §	1,4-Dioxane/ EPA 8260B/M §	TPH-GRO EPA 8015B §	SECONDARY FOR ALL LOCATIONS: **TPH-EPH EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Total Phenols EPA 9065	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
	3/24/11																										Amended COC
SL-199-SA5A-SB-3.0		0855	SOIL	None	2-16 oz jars	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	
SL-223-SA5A-SB-4.0-5.0 NS		1114			4-Encores																						
SL-223-SA5A-SB-4.5 NS		1111			12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-223-SA5A-SB-8.5-9.5		1104			15-Encores										X	X	X										MS/MSD
* SL-223-SA5A-SB-8.0		1100			4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
DUP10-SA5A-QC-032411		1058			5-Encores										X	X	X										
DUP10-SA5A-QC-032411		1058			9-16 oz jars	X	X	X	X	X	X	X	X		/			X	X	X	X	X	X	X	X	X	
SL-226-SA5A-4.0-5.0		1224			5-Encores										X	X	X										
SL-226-SA5A-4.5		1219			9-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-225-SA5A-4.0-5.0		1433			5-encores										X	X	X										
SL-225-SA5A-4.5		1427			9-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-224-SA5A-4.0-5.0		1529			5-encores										X	X	X										
SL-224-SA5A-4.5		1524			4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
					5-Encores																						
TB-0324-11	↓	0800	WATER	HCL	4-40 mL Voa vials										X	X	X										TRIP Blank

Relinquished by: (Signature) — Date/Time: 3/24/11 1700 — Received for Laboratory by: (Signature) — 3/25/11 915 — Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time — Airbill No.(s): 8695 1432 3769, ... 3770

* Sample ID updated to SL-223-SA5A-SB-9.0 per PH. MR 3/29/11

Acct# 13013 Cp# 1238948 Sample# 6239186-94

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For bore chrome samples, lab will measure pH and ORP
§ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Sampler's Signature:

PRIMARY FOR ALL LOCATIONS | VOCs | SECONDARY FOR ALL LOCATIONS

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/7000B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dixin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C	Perchlorate Confirmation by EPA 8350 (10%)	VOCs/EPA 8260B §	1,4-Dioxane EPA 8260SIM §	TPH-DRO EPA 8015B §	**TPH-EPH EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Total Cr EPA 6010B	**Dioxin EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
																											Amended COC
SL-199-SASA-SB-2.5-3.5	3/24/11	0859	Soil	None	2 16oz Jars	X	X	X	X	X	X	X	X														
SL-199-SASA-SB-3.0		0855			4 Encores										XX												
SL-223-SASA-SB-4.0-5.0MS		1114			12 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	12 16oz Jars MS/MSD
SL-223-SASA-SB-4.5MS		1111			15 Encores										XXX												15 Encored MS/MSD
SL-223-SASA-SB-8.5-9.5		1104			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	4 16oz Jars
~~SL-223-SASA-SB-8.5~~ *		1100			5 Encores										XXX												5 Encores
DUP10-SASA-QC-032411		1058			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	4 16oz Jars
DUP10-SASA-QC-032411		1058			5 Encores										XXX												5 Encores
SL-226-SASA-SB-4.0-5.0		1224			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	4 16oz Jars
↓ -4.5		1219			5 Encores										XXX												5 Encores
SL-225-SASA-SB-4.0-5.0		1433			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
↓ -4.5		1429			5 Encores										XXX												
SL-224-SASA-SB-4.0-5.0		1529			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
↓ -4.5		1524			5 Encores										XXX												
TB-032411	↓	0800	↓	↓	4 40ml Vials										XXX												TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	3/24/11 1700		3/25/11 916
Received by: (Signature)	Date/Time	Airbill No.(s):	
		8695 1432 3769, 3770	

Laboratory: Lancaster Laboratories, Inc.

* Sample ID updated to SL-223-SASA-SB-9.0 per PH. mrs 3/29/11

Natalie R. Luciano

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Tuesday, March 29, 2011 10:57 AM
To: Natalie R. Luciano
Subject: COC-SSFL 032811

Hi Natalie

I will be taking over as FTL at Santa Susana. Please let me know if you have any problems with yesterdays samples/COCs and I will make sure to make corrections in my methods!

I have gone through our COC's from last week and found an error that I would like to check on with you. On the 03/24/2011 COC a sample is listed as "SL-223-SA5A-SB-8.0" (time-1100). It should be "SL-223-SA5A-SB-9.0".

Thanks!

Pam

acct# 13013 Cp# 1238948 samp6# 6239186-94

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-199-SA5A-SB-2.5-3.5	03.24.11	0859	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-199-SA5A-SB-3.0	03.24.11	0855	SOIL	NONE	4-Encores										X	X											
SL-223-SA5A-SB-4.0-5.0MS	03.24.11	1114	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-223-SA5A-SB-4.5MS	03.24.11	1111	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-223-SA5A-SB-8.5-9.5	03.24.11	1104	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-223-SA5A-SB-8.0	03.24.11	1100	SOIL	NONE	5-Encores										X	X	X										
DUP10-SA5A-QC-032411	03.24.11	1058	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
DUP10-SA5A-QC-032411	03.24.11	1058	SOIL	NONE	5-Encores										X	X	X										
SL-226-SA5A-SB-4.0-5.0	03.24.11	1224	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-226-SA5A-SB-4.5	03.24.11	1219	SOIL	NONE	5-Encores										X	X	X										
SL-225-SA5A-SB-4.0-5.0	03.24.11	1433	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-225-SA5A-SB-4.5	03.24.11	1427	SOIL	NONE	5-Encores										X	X	X										
SL-224-SA5A-SB-4.0-5.0	03.24.11	1529	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-224-SA5A-SB-4.5	03.24.11	1524	SOIL	NONE	5-Encores										X	X	X										
TB-032411	03.24.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/24/2011 / 17:00	3/25/11 915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1432 3769, ...3770.	

acct# 13013 Cap# 1238948 Sample# 6239186-94

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-199-SA5A-SB-2.5-3.5	3/24/11	0859	SOIL	None	2-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-199-SA5A-SB-3.0		0855			4-Encores										X	X											
SL-223-SA5A-SB-4.0-5.0		NS 1114			12-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-223-SA5A-SB-4.5		NS 1111			15-Encores										X	X	X										
SL-223-SA5A-SB-8.5-9.5		1104			4-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-223-SA5A-SB-8.0		1100			5-Encores										X	X	X										
DUP10-SA5A-QC-032411		1058			4-16oz jars	X	X	X	X	X	X	X	X		/			X	X	X	X	X	X	X	X	X	
DUP10-SA5A-QC-032411		1058			5-Encores										X	X	X										
SL-226-SA5A-4.0-5.0		1224			4-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-226-SA5A-4.5		1219			5-encores										X	X	X										
SL-225-SA5A-4.0-5.0		1433			4-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-225-SA5A-4.5		1427			5-encores										X	X	X										
SL-224-SA5A-4.0-5.0		1529			4-16oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-224-SA5A-4.5		1524			5-encores																						
TB-0324-11		0800	WATER	HCL	4-40mL Voa vials										X	X	X										Trip Blank

Relinquished by: (Signature) — Date/Time: 3/24/11 1700 — Received for Laboratory by: (Signature) — 3/25/11 915

Received by: (Signature) — Date/Time

Airbill No.(s): 8695 1432 3769, ... 3770

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Cap# 1238948 samp6# 6239186-94

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-199-SASA-SB2.5-3.5	3/24/11	0859	Soil	None	2 16oz jars	X	X	X	X	X	X	X	X														
SL-199-SASA-SB-3.0		0855			4 Encore										X	X											
SL-223-SASA-SB-4.0-5.0MS		1114			12 16oz Jars	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	12 16oz Jars MS/MSD
SL-223-SASA-SB-4.5MS		1111			15 Encore										X	X	X										15 Encores MS/MSD
SL-223-SASA-SB-8.5-9.5		1104			4 16oz Jars	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	4 16oz Jars
SL-223-SASA-SB-8.5		1100			5 Encore										X	X	X										5 Encores
DUP-10-SASA-QC-032411		1058			4 16oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	4 16oz Jars
DUP10-SASA-QC-032411		1058			5 Encore										X	X	X										5 Encores
SL-226-SASA-SB-4.0-5.0		1224			4 16oz Jars	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	4 16oz Jars
↓ -4.5		1219			5 Encore										X	X	X										5 Encores
SL-225-SASA-SB-4.0-5.0		1433			4 16oz Jars	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	
↓ -4.5		1427			5 Encores										X	X	X										
SL-224-SASA-SB-4.0-5.0		1529			4 16oz Jars	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	
↓ -4.5		1524			5 Encores										X	X	X										
TB-032411		0800	↓	↓	4-40ml Vials										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	3/24/11 1700		3/25/11 916
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1432 3769, 3770	

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 05, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/26/2011
Group Number: 1239129
SDG: DE122
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-213-SA5A-SB-4.0-5.0 Soil	6240605
SL-213-SA5A-SB-8.0-9.0 Soil	6240606
SL-143-SA5A-SB-4.0-5.0 Soil	6240607
SL-143-SA5A-SB-8.0-9.0 Soil	6240608
SL-144-SA5A-SB-4.0-5.0 Soil	6240609
SL-144-SA5A-SB-7.0-8.0 Soil	6240610
TB-032511 Water	6240611

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: SL-213-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-4.0-5.0

LLI Sample # SW 6240605
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:14

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

213-4 SDG#: DE122-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.89
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.89
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.89
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.89
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.89
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.89
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.89
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.89
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.89
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.89
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.89
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.89
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.89
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.89
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.89
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.89
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.89
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.89
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.89
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.89
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.89
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.89
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.89
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.89
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.89
06192	Methylene Chloride	75-09-2	2.6	J	0.25	4.2		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.89

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Sample Description: SL-213-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-4.0-5.0

LLI Sample # SW 6240605
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:14

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

213-4 SDG#: DE122-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.89
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.89
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.89
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.12
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Sample Description: **SL-213-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-4.0-5.0

LLI Sample # SW 6240605
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:14

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14420 Albemarle Point Place
Suite 210
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213-4 SDG#: DE122-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1

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Sample Description: SL-213-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-4.0-5.0

LLI Sample # SW 6240605
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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213-4 SDG#: DE122-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		5.89	23.4		1
07914	Boron	7440-42-8	9.18		1.04	5.86		1
01650	Calcium	7440-70-2	2,470		7.18	23.4		1
01654	Iron	7439-89-6	25,200		5.52	23.4		1
01656	Lithium	7439-93-2	30.2		0.26	2.3		1
01657	Magnesium	7439-95-4	5,240		2.98	11.7		1
06958	Manganese	7439-96-5	514		0.0914	0.586		1
10145	Phosphorus	7723-14-0	299		0.656	11.7		1
01662	Potassium	7440-09-7	2,560		21.1	58.6		1
01667	Sodium	7440-23-5	115	J	43.7	117		1
07968	Strontium	7440-24-6	22.0		0.0726	0.586		1
06969	Tin	7440-31-5	3.39	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,240		0.445	1.17		1
10146	Zirconium	7440-67-7	1.10	J	0.984	5.86		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0787	J	0.0710	0.237		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

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Sample Description: SL-213-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-4.0-5.0

LLI Sample # SW 6240605
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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213-4 SDG#: DE122-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	4.36	0.0947	0.473		2
06126	Barium	7440-39-3	114	0.128	0.473		2
06127	Beryllium	7440-41-7	0.989	0.0189	0.118		2
06128	Cadmium	7440-43-9	0.123	0.0473	0.118		2
06131	Chromium	7440-47-3	19.3	0.142	0.473		2
06132	Cobalt	7440-48-4	7.00	0.0237	0.118		2
06133	Copper	7440-50-8	10.2	0.0781	0.473		2
06135	Lead	7439-92-1	6.79	0.0123	0.237		2
06138	Molybdenum	7439-98-7	0.631	0.0592	0.118		2
06139	Nickel	7440-02-0	14.6	0.118	0.473		2
06141	Selenium	7782-49-2	0.0875 J	0.0473	0.473		2
06142	Silver	7440-22-4	0.0451 J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.294	0.0355	0.118		2
06148	Vanadium	7440-62-2	36.3	0.0260	0.118		2
06149	Zinc	7440-66-6	63.0	0.663	3.55		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4	0.95	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38 J	0.24	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	508	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.16	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-213-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-4.0-5.0

LLI Sample # SW 6240605
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:14

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

213-4 SDG#: DE122-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-213-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 10:00	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/29/2011 00:36	Sara E Johnson	22.12
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108523950	03/26/2011 13:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108523950	03/26/2011 13:16	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/04/2011 23:55	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 04:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110900028A	04/01/2011 15:32	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 00:35	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110900028A	04/01/2011 09:15	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 19:24	John P Hook	1
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:20	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-213-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-4.0-5.0

LLI Sample # SW 6240605
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:14

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

213-4 SDG#: DE122-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 05:17	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 05:17	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 13:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 05:17	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 13:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 05:17	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201A	04/05/2011 14:06	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201A	04/11/2011 18:29	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11102243201A	04/13/2011 20:41	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201A	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201A	04/04/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101B	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401B	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-213-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-8.0-9.0

LLI Sample # SW 6240606
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

213-8 SDG#: DE122-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-213-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-8.0-9.0

LLI Sample # SW 6240606
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

213-8 SDG#: DE122-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	0.41	U	0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	0.81	U	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-213-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-8.0-9.0

LLI Sample # SW 6240606
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

213-8 SDG#: DE122-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,100		5.94	23.6		1
07914	Boron	7440-42-8	15.2		1.05	5.91		1
01650	Calcium	7440-70-2	16,900		7.24	23.6		1
01654	Iron	7439-89-6	47,000		11.1	47.2		2
01656	Lithium	7439-93-2	37.0		0.26	2.4		1
01657	Magnesium	7439-95-4	11,300		3.00	11.8		1
06958	Manganese	7439-96-5	215		0.0921	0.591		1
10145	Phosphorus	7723-14-0	532		0.661	11.8		1
01662	Potassium	7440-09-7	4,010		21.3	59.1		1
01667	Sodium	7440-23-5	193		44.1	118		1
07968	Strontium	7440-24-6	48.6		0.0732	0.591		1
06969	Tin	7440-31-5	3.70	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,600		0.449	1.18		1
10146	Zirconium	7440-67-7	0.992	U	0.992	5.91		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0702	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.85		0.0936	0.468		2
06126	Barium	7440-39-3	98.0		0.126	0.468		2
06127	Beryllium	7440-41-7	1.40		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.0468	U	0.0468	0.117		2
06131	Chromium	7440-47-3	23.8		0.140	0.468		2
06132	Cobalt	7440-48-4	9.62		0.0234	0.117		2
06133	Copper	7440-50-8	11.1		0.0772	0.468		2
06135	Lead	7439-92-1	11.1		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.812		0.0585	0.117		2
06139	Nickel	7440-02-0	16.2		0.117	0.468		2
06141	Selenium	7782-49-2	0.123	J	0.0468	0.468		2
06142	Silver	7440-22-4	0.0731	J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.472		0.0351	0.117		2
06148	Vanadium	7440-62-2	45.9		0.0257	0.117		2
06149	Zinc	7440-66-6	51.9		0.655	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.97	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-213-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-8.0-9.0

LLI Sample # SW 6240606
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

213-8 SDG#: DE122-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57	J	0.24	1.2		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	500		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.00		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	17.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/05/2011 00:54	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 21:10	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 18:43	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 19:28	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 19:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 19:28	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 19:59	John P Hook	2
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 19:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 19:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 19:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 19:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 19:28	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-213-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-8.0-9.0

LLI Sample # SW 6240606
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

213-8 SDG#: DE122-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 19:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 19:28	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 19:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 19:28	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 19:28	John P Hook	1
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 05:20	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 05:20	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 13:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 05:20	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 13:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 05:20	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201A	04/05/2011 14:20	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201A	04/11/2011 18:52	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11102243201A	04/13/2011 20:55	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201A	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201A	04/04/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101B	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401B	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

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Analysis Report

REVISED

Sample Description: SL-143-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-4.0-5.0

LLI Sample # SW 6240607
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:04

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE122-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.81
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.81
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.81
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.81
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.81
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.81
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.81
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.81
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.81
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.81
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.81
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.81
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.81
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.81
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.81
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.81
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.81
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.81
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.81
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.81
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.81
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.81
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.81
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.81
06192	Methylene Chloride	75-09-2	2.2	J	0.22	3.7		0.81
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.81

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-143-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-4.0-5.0

LLI Sample # SW 6240607
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:04

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE122-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.81
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.81
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.81
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.81
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.81
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.81
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.81
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.81
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.81
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.44
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	62.8		19.1	38.2		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-143-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-4.0-5.0

LLI Sample # SW 6240607
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:04

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE122-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1

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Sample Description: SL-143-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-4.0-5.0

LLI Sample # SW 6240607
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:04

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE122-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.94
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1

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Sample Description: SL-143-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-4.0-5.0

LLI Sample # SW 6240607
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:04

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE122-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.50	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1

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Sample Description: SL-143-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-4.0-5.0

LLI Sample # SW 6240607
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:04

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE122-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,400		5.71	22.7		1
07914	Boron	7440-42-8	8.08		1.01	5.68		1
01650	Calcium	7440-70-2	2,160		6.96	22.7		1
01654	Iron	7439-89-6	22,400		5.35	22.7		1
01656	Lithium	7439-93-2	22.5		0.25	2.3		1
01657	Magnesium	7439-95-4	4,270		2.88	11.4		1
06958	Manganese	7439-96-5	245		0.0886	0.568		1
10145	Phosphorus	7723-14-0	124		0.636	11.4		1
01662	Potassium	7440-09-7	2,020		20.4	56.8		1
01667	Sodium	7440-23-5	124		42.4	114		1
07968	Strontium	7440-24-6	21.7		0.0704	0.568		1
06969	Tin	7440-31-5	3.27	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,180		0.431	1.14		1
10146	Zirconium	7440-67-7	0.954	U	0.954	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0796	J	0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.08		0.0899	0.450		2
06126	Barium	7440-39-3	166		0.121	0.450		2
06127	Beryllium	7440-41-7	0.725		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0458	J	0.0450	0.112		2
06131	Chromium	7440-47-3	57.2		0.135	0.450		2
06132	Cobalt	7440-48-4	11.1		0.0225	0.112		2
06133	Copper	7440-50-8	36.3		0.0742	0.450		2
06135	Lead	7439-92-1	4.93		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.442		0.0562	0.112		2
06139	Nickel	7440-02-0	30.3		0.112	0.450		2
06141	Selenium	7782-49-2	0.0686	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0190	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.282		0.0337	0.112		2
06148	Vanadium	7440-62-2	69.9		0.0247	0.112		2
06149	Zinc	7440-66-6	100		0.630	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-143-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-4.0-5.0

LLI Sample # SW 6240607
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:04

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE122-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	512		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-143-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 10:22	Angela D Sneeringer	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/29/2011 00:56	Sara E Johnson	21.44
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:19	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108523950	03/26/2011 13:33	Christopher D Meeks	n.a.

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Sample Description: **SL-143-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-4.0-5.0

LLI Sample # SW 6240607
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:04

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE122-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108523950	03/26/2011 13:19	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/14/2011 12:57	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/05/2011 01:19	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 21:42	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34A	03/29/2011 01:22	Elizabeth J Marin	19.94
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:19	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 11:04	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 23:44	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 19:01	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 06:11	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/29/2011 23:00	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110890005A	03/30/2011 17:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/05/2011 01:52	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110890005A	03/30/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 19:32	John P Hook	1

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Sample Description: SL-143-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-4.0-5.0

LLI Sample # SW 6240607
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:04

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE122-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 05:23	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 05:23	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 13:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 05:23	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 13:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 05:23	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201A	04/05/2011 14:35	Nicole M Kepley	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11094495201A	04/05/2011 14:35	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201A	04/11/2011 19:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11102243201A	04/13/2011 21:10	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11097102201A	04/07/2011 19:02	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201A	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201A	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11097102201A	04/07/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101B	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401B	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: SL-143-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-8.0-9.0

LLI Sample # SW 6240608
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:15

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-8 SDG#: DE122-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.89
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.89
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.89
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.89
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.89
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.89
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.89
06192	Methylene Chloride	75-09-2	2.2	J	0.24	4.1		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.89

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-143-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-8.0-9.0

LLI Sample # SW 6240608
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:15

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-8 SDG#: DE122-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.73
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	82.4		19.1	38.2		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1

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Sample Description: SL-143-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-8.0-9.0

LLI Sample # SW 6240608
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:15

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-8 SDG#: DE122-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1

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Sample Description: **SL-143-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-8.0-9.0

LLI Sample # SW 6240608
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:15

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-8 SDG#: DE122-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.53
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1

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Sample Description: SL-143-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-8.0-9.0

LLI Sample # SW 6240608
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:15

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-8 SDG#: DE122-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.48	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.53	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is

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Sample Description: SL-143-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-8.0-9.0

LLI Sample # SW 6240608
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:15

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-8 SDG#: DE122-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		5.71	22.7		1
07914	Boron	7440-42-8	5.58	J	1.01	5.68		1
01650	Calcium	7440-70-2	1,880		6.96	22.7		1
01654	Iron	7439-89-6	16,000		5.35	22.7		1
01656	Lithium	7439-93-2	14.3		0.25	2.3		1
01657	Magnesium	7439-95-4	3,180		2.88	11.4		1
06958	Manganese	7439-96-5	101		0.0886	0.568		1
10145	Phosphorus	7723-14-0	120		0.636	11.4		1
01662	Potassium	7440-09-7	1,700		20.4	56.8		1
01667	Sodium	7440-23-5	186		42.4	114		1
07968	Strontium	7440-24-6	15.0		0.0704	0.568		1
06969	Tin	7440-31-5	3.18	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,060		0.431	1.14		1
10146	Zirconium	7440-67-7	0.954	U	0.954	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0772	J	0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.03		0.0908	0.454		2
06126	Barium	7440-39-3	102		0.123	0.454		2
06127	Beryllium	7440-41-7	0.452		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0454	U	0.0454	0.114		2
06131	Chromium	7440-47-3	18.6		0.136	0.454		2
06132	Cobalt	7440-48-4	5.60		0.0227	0.114		2
06133	Copper	7440-50-8	5.30		0.0749	0.454		2
06135	Lead	7439-92-1	4.61		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.570		0.0568	0.114		2
06139	Nickel	7440-02-0	11.9		0.114	0.454		2
06141	Selenium	7782-49-2	0.0472	J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0451	J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.209		0.0341	0.114		2
06148	Vanadium	7440-62-2	37.4		0.0250	0.114		2
06149	Zinc	7440-66-6	47.7		0.636	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.92	1.7		1

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Sample Description: SL-143-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-8.0-9.0

LLI Sample # SW 6240608
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:15

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-8 SDG#: DE122-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	491		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.58		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-143-SA5A-SB-8.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 10:44	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/29/2011 01:16	Sara E Johnson	20.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108523950	03/26/2011 13:33	Christopher D Meeks	n.a.

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Sample Description: **SL-143-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-8.0-9.0

LLI Sample # SW 6240608
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:15

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-8 SDG#: DE122-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108523950	03/26/2011 13:22	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/14/2011 13:13	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/05/2011 01:44	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 22:17	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34A	03/29/2011 01:58	Elizabeth J Marin	20.53
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:22	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 11:46	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/30/2011 23:53	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 19:20	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 06:37	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/29/2011 23:15	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110870001A	03/29/2011 01:31	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/05/2011 02:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110870001A	03/28/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 19:36	John P Hook	1

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Sample Description: SL-143-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-8.0-9.0

LLI Sample # SW 6240608
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:15

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-8 SDG#: DE122-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 05:26	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 05:26	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 13:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 05:26	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 13:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 05:26	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201B	04/05/2011 14:50	Nicole M Kepley	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11094495201B	04/05/2011 14:50	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201B	04/11/2011 19:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11102243201A	04/13/2011 21:31	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11097102201A	04/07/2011 19:05	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201B	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201B	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11097102201A	04/07/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101B	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401B	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-144-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-4.0-5.0

LLI Sample # SW 6240609
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE122-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.89
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.89
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.89
06192	Methylene Chloride	75-09-2	2.5	J	0.23	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.89

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Sample Description: SL-144-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-4.0-5.0

LLI Sample # SW 6240609
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE122-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.89
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.94
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	83.3		18.2	36.4		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1

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Sample Description: **SL-144-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-4.0-5.0

LLI Sample # SW 6240609
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE122-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1

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Sample Description: SL-144-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-4.0-5.0

LLI Sample # SW 6240609
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE122-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.04
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1

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Sample Description: SL-144-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-4.0-5.0

LLI Sample # SW 6240609
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE122-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.56	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-144-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-4.0-5.0

LLI Sample # SW 6240609
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE122-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,300		5.49	21.8		1
07914	Boron	7440-42-8	6.91		0.972	5.46		1
01650	Calcium	7440-70-2	2,090		6.69	21.8		1
01654	Iron	7439-89-6	20,700		5.14	21.8		1
01656	Lithium	7439-93-2	22.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,600		2.77	10.9		1
06958	Manganese	7439-96-5	211		0.0852	0.546		1
10145	Phosphorus	7723-14-0	136		0.611	10.9		1
01662	Potassium	7440-09-7	1,910		19.7	54.6		1
01667	Sodium	7440-23-5	212		40.7	109		1
07968	Strontium	7440-24-6	19.4		0.0677	0.546		1
06969	Tin	7440-31-5	3.37	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,090		0.415	1.09		1
10146	Zirconium	7440-67-7	0.917	U	0.917	5.46		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0822	J	0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.01		0.0873	0.437		2
06126	Barium	7440-39-3	57.8		0.118	0.437		2
06127	Beryllium	7440-41-7	0.756		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0437	U	0.0437	0.109		2
06131	Chromium	7440-47-3	13.6		0.131	0.437		2
06132	Cobalt	7440-48-4	3.05		0.0218	0.109		2
06133	Copper	7440-50-8	5.21		0.0721	0.437		2
06135	Lead	7439-92-1	6.62		0.0114	0.218		2
06138	Molybdenum	7439-98-7	0.166		0.0546	0.109		2
06139	Nickel	7440-02-0	5.79		0.109	0.437		2
06141	Selenium	7782-49-2	0.0821	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0226	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.280		0.0328	0.109		2
06148	Vanadium	7440-62-2	24.9		0.0240	0.109		2
06149	Zinc	7440-66-6	31.3		0.611	3.28		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.87	1.6		1

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Sample Description: SL-144-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-4.0-5.0

LLI Sample # SW 6240609
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE122-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	506		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-144-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 11:07	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/29/2011 01:36	Sara E Johnson	22.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108523950	03/26/2011 13:33	Christopher D Meeks	n.a.

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Sample Description: **SL-144-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-4.0-5.0

LLI Sample # SW 6240609
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE122-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108523950	03/26/2011 13:25	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/14/2011 13:29	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/05/2011 02:09	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 22:48	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34A	03/29/2011 02:35	Elizabeth J Marin	21.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:25	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 12:28	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/31/2011 00:03	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 19:38	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 07:03	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/29/2011 23:29	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110870001A	03/29/2011 01:49	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/05/2011 03:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110870001A	03/28/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 19:40	John P Hook	1

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Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-144-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-4.0-5.0

LLI Sample # SW 6240609
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:18

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE122-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 05:29	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 05:29	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 13:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 05:29	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 13:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 05:29	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201B	04/05/2011 15:34	Nicole M Kepley	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11094495201B	04/05/2011 15:34	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201B	04/11/2011 21:07	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11102243201A	04/13/2011 21:46	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11097102201A	04/07/2011 19:06	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201B	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201B	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11097102201A	04/07/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101B	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401B	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Analysis Report

REVISED

Sample Description: **SL-144-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-7.0-8.0

LLI Sample # SW 6240610
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:24

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-7 SDG#: DE122-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		1.06
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.06
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.06
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		1.06
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.06
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.06
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.06
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		1.06
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.06
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.06
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.06
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		1.06
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.06
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.06
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.06
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.06
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		1.06
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		1.06
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		1.06
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		1.06
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		1.06
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.06
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.06
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		1.06
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.06
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.06
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.06
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.06
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.06
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.06
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.06
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.06
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.06
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.06
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.06
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.06
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.06
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.06
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.06
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.06
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.06
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		1.06
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		1.06
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.06
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.06
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.06
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.06
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		1.06
06192	Methylene Chloride	75-09-2	2.5	J	0.27	4.4		1.06
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.06

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Sample Description: SL-144-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-7.0-8.0

LLI Sample # SW 6240610
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:24

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-7 SDG#: DE122-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.06
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.06
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4		1.06
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.06
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.06
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		1.06
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.06
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.06
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.06
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.06
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.06
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		1.06
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.06
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.06
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.06
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.06
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.06
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		24.95
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	53.6		17.5	35.0		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1

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Sample Description: SL-144-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-7.0-8.0

LLI Sample # SW 6240610
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:24

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-7 SDG#: DE122-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1

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Sample Description: SL-144-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-7.0-8.0

LLI Sample # SW 6240610
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:24

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-7 SDG#: DE122-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.25
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1

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Sample Description: SL-144-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-7.0-8.0

LLI Sample # SW 6240610
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:24

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-7 SDG#: DE122-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	0.51	J	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	J	0.42	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is

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Sample Description: SL-144-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-7.0-8.0

LLI Sample # SW 6240610
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:24

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-7 SDG#: DE122-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attributed to the sample matrix and the data is reported.								
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		5.23	20.8		1
07914	Boron	7440-42-8	5.61		0.926	5.20		1
01650	Calcium	7440-70-2	1,810		6.38	20.8		1
01654	Iron	7439-89-6	18,400		4.90	20.8		1
01656	Lithium	7439-93-2	20.7		0.23	2.1		1
01657	Magnesium	7439-95-4	4,040		2.64	10.4		1
06958	Manganese	7439-96-5	130		0.0811	0.520		1
10145	Phosphorus	7723-14-0	127		0.582	10.4		1
01662	Potassium	7440-09-7	1,920		18.7	52.0		1
01667	Sodium	7440-23-5	135		38.8	104		1
07968	Strontium	7440-24-6	15.8		0.0645	0.520		1
06969	Tin	7440-31-5	3.04	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,090		0.395	1.04		1
10146	Zirconium	7440-67-7	0.874	U	0.874	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0630	U	0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.08		0.0840	0.420		2
06126	Barium	7440-39-3	72.3		0.113	0.420		2
06127	Beryllium	7440-41-7	0.578		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0420	U	0.0420	0.105		2
06131	Chromium	7440-47-3	16.2		0.126	0.420		2
06132	Cobalt	7440-48-4	12.5		0.0210	0.105		2
06133	Copper	7440-50-8	6.39		0.0693	0.420		2
06135	Lead	7439-92-1	4.15		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.522		0.0525	0.105		2
06139	Nickel	7440-02-0	10.7		0.105	0.420		2
06141	Selenium	7782-49-2	0.0601	J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0257	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.234		0.0315	0.105		2
06148	Vanadium	7440-62-2	33.8		0.0231	0.105		2
06149	Zinc	7440-66-6	46.5		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0028	U	0.0028	0.0993		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.84	1.6		1

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Sample Description: SL-144-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-7.0-8.0

LLI Sample # SW 6240610
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:24

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-7 SDG#: DE122-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.51		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	499		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.04		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-144-SA5A-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110861AA	03/28/2011 11:30	Angela D Sneeringer	1.06
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110872AA	03/29/2011 01:56	Sara E Johnson	24.95
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108523950	03/26/2011 13:33	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-144-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-7.0-8.0

LLI Sample # SW 6240610
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:24

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-7 SDG#: DE122-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108523950	03/26/2011 13:28	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/14/2011 13:46	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/05/2011 02:34	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11089SLD026	04/03/2011 23:20	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11089SLD026	03/31/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34A	03/29/2011 03:11	Elizabeth J Marin	25.25
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108523950	03/26/2011 13:27	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 13:11	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110870004A	03/31/2011 00:12	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110900040A	04/06/2011 19:57	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110900040A	04/01/2011 15:15	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110870004A	03/28/2011 20:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 07:28	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/29/2011 23:44	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110870001A	03/29/2011 02:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/05/2011 04:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110870001A	03/28/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1
07914	Boron	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1
01654	Iron	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1
01656	Lithium	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1
06969	Tin	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110885708004	03/30/2011 19:44	John P Hook	1

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Sample Description: **SL-144-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-7.0-8.0

LLI Sample # SW 6240610
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:24

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-7 SDG#: DE122-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110881026002A	04/01/2011 13:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110881026002A	04/01/2011 13:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110881026002D	04/01/2011 13:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110881026002A	04/01/2011 05:32	David K Beck	2
06128	Cadmium	SW-846 6020	1	110881026002A	04/01/2011 13:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110881026002A	04/01/2011 13:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110881026002A	04/01/2011 13:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110881026002A	04/01/2011 13:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110881026002A	04/01/2011 05:32	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110881026002C	04/01/2011 13:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110881026002A	04/01/2011 13:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110881026002B	04/01/2011 05:32	David K Beck	2
06142	Silver	SW-846 6020	1	110881026002A	04/01/2011 13:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110881026002A	04/01/2011 05:32	David K Beck	2
06148	Vanadium	SW-846 6020	1	110881026002A	04/01/2011 13:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110881026002A	04/01/2011 13:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110885711002	03/31/2011 07:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110885708004	03/30/2011 09:00	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110881026002	03/30/2011 09:06	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110885711002	03/30/2011 11:00	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11094495201B	04/05/2011 15:49	Nicole M Kepley	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11094495201B	04/05/2011 15:49	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201B	04/11/2011 21:30	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11102243201A	04/13/2011 22:07	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11097102201A	04/07/2011 19:10	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11094495201B	04/05/2011 01:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201B	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11097102201A	04/07/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11087182101B	03/28/2011 13:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11087039401B	03/28/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11102243201A	04/12/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: TB-032511 Water
SSFL Area IV Collocated Soil Sampling
TB-032511

LLI Sample # WW 6240611
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 08:00

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144TB SDG#: DE122-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: TB-032511 Water
SSFL Area IV Collocated Soil Sampling
TB-032511

LLI Sample # WW 6240611
LLI Group # 1239129
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 08:00

Submitted: 03/26/2011 09:30
Reported: 05/05/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144TB SDG#: DE122-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110883AA	03/29/2011	21:20	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110871AA	03/28/2011	12:14	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110871AA	03/28/2011	12:14	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110883AA	03/29/2011	21:20	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11094A20A	04/04/2011	13:28	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11094A20A	04/04/2011	13:28	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110861AA	Sample number(s): 6240605,6240607-6240610									
Acetone	7.7	J	6.7	8.0	ug/kg	196		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	105		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	98		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	128*		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	82		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	104		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	148		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	108		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	108		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	101		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	90		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	98		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	102		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	103		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	103		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	99		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	93		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	98		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	87		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	88		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	102		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	107		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	101		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	94		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	93		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	88		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	100		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	122		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	107		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	134		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	107		75-120		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	103		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	114		61-134		
Methylene Chloride	0.95	J	0.24	4.0	ug/kg	111		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	108		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	90		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	107		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	96		77-120		
Toluene	0.16	J	0.08	4.0	ug/kg	100		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	95		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	85		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	106		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	105		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	103		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	98		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
Batch number: E110871AA	Sample number(s): 6240611									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	112	114	80-123	2	30
Batch number: E110872AA	Sample number(s): 6240605,6240607-6240610									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108		70-130		
Batch number: Y110883AA	Sample number(s): 6240611									
Acetone	6	U	6.	20	ug/l	104	109	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	101	102	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	104	105	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	109	113	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	104	105	80-120	1	30
Bromoform	1	U	1.	5	ug/l	87	87	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	120	123*	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	100	102	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	98	100	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	100	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	96	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	110	112	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	100	102	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	111	114	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	78	84	56-129	8	30
Chloroform	0.8	U	0.8	5	ug/l	109	111	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	81	85	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	102	105	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	99	101	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	75	76	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	96	96	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	95	96	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	103	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	108	110	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	100	101	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	104	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	101	102	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	96	96	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	103	105	79-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	121	124	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	108	111	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	104	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	102	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	98	99	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	103	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	104	105	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	107	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	93	95	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	95	97	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	101	79-120	2	30
Freon 113	2	U	2.	10	ug/l	117	121	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	112	114	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	97	101	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	93	97	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	98	100	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	102	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	104	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	98	100	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	108	108	80-120	0	30
n-Propylbenzene	1	U	1.	5	ug/l	101	103	80-120	2	30
Styrene	1	U	1.	5	ug/l	94	96	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	102	103	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	95	97	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	105	113	80-121	8	30
Toluene	0.7	U	0.7	5	ug/l	99	99	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	98	102	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	99	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	112	113	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	101	101	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	104	106	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	137*	131*	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	105	108	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	103	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	101	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	95	97	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	100	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	95	98	80-120	3	30

Batch number: 11089SLD026 Sample number(s): 6240605-6240610

Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	90		55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	107		74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	110		58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	123		63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	113		44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	115		54-142
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	112		65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	112		75-137
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	116		53-138
Diethylphthalate	6.0	U	6.0	18	ug/kg	121		68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	143*		79-121
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	109		67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	107		64-120
Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	116		56-134

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	108		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	97		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	112		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	111		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	100		56-121		
Batch number: 11091SLC026	Sample number(s): 6240605-6240610									
Aniline	170 U		170.	500	ug/kg	68		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	47		15-121		
Benzoic acid	170 U		170.	500	ug/kg	72		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	81		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		79-117		
Carbazole	17	U	17.	170	ug/kg	90		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	80		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	51		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	79		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	78		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	64*		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	90		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	89		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	63		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	80		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	90		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	87		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	71		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	85		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	86		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	77		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	72		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Isophorone	17	U	17.	170	ug/kg	73		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	84		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	88		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	87		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	61		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	70*		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	92		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	65		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	66		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	76		51-117		
Phenol	17	U	17.	170	ug/kg	80		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	89		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	88		78-111		
Batch number: 11092SLB026	Sample number(s): 6240607-6240610									
N-Nitrosodimethylamine	21.5	J	16.7	33.3	ng/kg	76		70-130		
Batch number: 11087A34A	Sample number(s): 6240607-6240610									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11094A20A	Sample number(s): 6240611									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 110900049A	Sample number(s): 6240607-6240610									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	95	107	54-134	13	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	94	107	54-134	13	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	106		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	101		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
HMX	100 U		100.	300	ug/kg	97		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	99		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	89		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	106		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	105		80-120		
PETN	800 U		800.	2,400	ug/kg	110		80-120		
RDX	50	U	50.	120	ug/kg	96		75-131		
Tetryl	61	U	61.	120	ug/kg	89		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	107		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 110870004A	Sample number(s): 6240607-6240610									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	97		80-126		
Batch number: 110900028A	Sample number(s): 6240605									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		70-130		
Batch number: 110900040A	Sample number(s): 6240606-6240610									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	75	81	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	87		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	95		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110940035A	Sample number(s): 6240605									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	77	83	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	105		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110900035A	Sample number(s): 6240607-6240610									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	95		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	85		66-113		
Batch number: 110870001A	Sample number(s): 6240608-6240610									
Diethylene glycol	5.0	U	5.0	13	mg/kg	115		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	116		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	117		75-125		
Batch number: 110880031A	Sample number(s): 6240607-6240610									
Ethanol	100	U	100.	500	ug/kg	94		71-129		
Isopropanol	100	U	100.	500	ug/kg	97		75-125		
Methanol	100	U	100.	500	ug/kg	92		68-129		
Batch number: 110890005A	Sample number(s): 6240607									
Diethylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	112		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Batch number: 110920003A	Sample number(s): 6240607-6240610									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 110881026002A	Sample number(s): 6240605-6240610									
Antimony	0.0594	U	0.0594	0.198	mg/kg	60		11-208		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	106		80-120		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	106		82-118		
Cadmium	0.0396	U	0.0396	0.0990	mg/kg	103		82-118		
Chromium	0.119	U	0.119	0.396	mg/kg	104		80-120		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	106		82-118		
Copper	0.195	J	0.0653	0.396	mg/kg	104		80-120		
Lead	0.0103	U	0.0103	0.198	mg/kg	109		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nickel	0.125	J	0.0990	0.396	mg/kg	113		80-120		
Silver	0.0119	U	0.0119	0.0990	mg/kg	97		66-134		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	106		81-119		
Vanadium	0.0218	U	0.0218	0.0990	mg/kg	94		90-110		
Zinc	0.554	U	0.554	2.97	mg/kg	108		78-122		
Batch number: 110881026002B	Sample number(s): 6240605-6240610									
Selenium	0.0396	U	0.0396	0.396	mg/kg	114		79-122		
Batch number: 110881026002C	Sample number(s): 6240605-6240610									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	111		78-122		
Batch number: 110881026002D	Sample number(s): 6240605-6240610									
Barium	0.107	U	0.107	0.396	mg/kg	107		79-121		
Batch number: 110885708004	Sample number(s): 6240605-6240610									
Aluminum	4.88	U	4.88	19.4	mg/kg	102		61-110		
Boron	0.864	U	0.864	4.85	mg/kg	97		78-110		
Calcium	6.36	J	5.95	19.4	mg/kg	106		88-110		
Iron	4.57	U	4.57	19.4	mg/kg	87		61-110		
Lithium	0.21	U	0.21	1.9	mg/kg	100		80-120		
Magnesium	2.47	U	2.47	9.71	mg/kg	101		82-110		
Manganese	0.0757	U	0.0757	0.485	mg/kg	95		81-119		
Phosphorus	1.28	J	0.544	9.71	mg/kg	99		80-120		
Potassium	17.5	U	17.5	48.5	mg/kg	105		78-110		
Sodium	36.2	U	36.2	97.1	mg/kg	102		87-110		
Strontium	0.0602	U	0.0602	0.485	mg/kg	101		79-121		
Tin	1.86	J	0.971	9.71	mg/kg	98		90-114		
Titanium	0.369	U	0.369	0.971	mg/kg	89		80-120		
Zirconium	0.816	U	0.816	4.85	mg/kg	99		80-120		
Batch number: 110885711002	Sample number(s): 6240605-6240610									
Mercury	0.0028	U	0.0028	0.0991	mg/kg	101		88-123		
Batch number: 11094094201A	Sample number(s): 6240605-6240607									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	90		85-115		
Batch number: 11094094201B	Sample number(s): 6240608-6240610									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	90		85-115		
Batch number: 11094495201A	Sample number(s): 6240605-6240607									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	99		90-110		
Batch number: 11094495201B	Sample number(s): 6240608-6240610									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	99		90-110		
Batch number: 11097102201A	Sample number(s): 6240607-6240610									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	101		80-120		
Batch number: 11102243201A	Sample number(s): 6240605-6240610									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	94		80-120		
Batch number: 11087039401B	Sample number(s): 6240605-6240610									
18a pH by 9045C						100		95-105		
Batch number: 11087182101B	Sample number(s): 6240605-6240610									

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Quality Control Summary

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Reported: 05/05/11 at 12:18 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
32a OR Potential					100		98-102		
Batch number: 11096162401A	Sample number(s): 6240605-6240606								
Moisture Content by 160.3					100		80-120		
Batch number: 11101162401A	Sample number(s): 6240607-6240610								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110861AA	Sample number(s): 6240605,6240607-6240610 UNSPK: P239176								
Acetone	211*	197	15-210	10	30				
Benzene	112	118	55-143	2	30				
Bromobenzene	109	116	43-139	3	30				
Bromochloromethane	135	128	60-137	10	30				
Bromodichloromethane	100	106	53-136	2	30				
Bromoform	83	85	38-124	1	30				
Bromomethane	101	100	42-168	4	30				
2-Butanone	151	144	37-163	8	30				
n-Butylbenzene	123	125	30-146	2	30				
sec-Butylbenzene	129	133	33-157	0	30				
tert-Butylbenzene	117	122	41-152	0	30				
Carbon Tetrachloride	98	107	45-153	5	30				
Chlorobenzene	106	111	49-135	1	30				
Chloroethane	103	103	39-152	3	30				
2-Chloroethyl Vinyl Ether	98	96	32-139	5	30				
Chloroform	110	115	61-142	1	30				
Chloromethane	93	92	51-163	4	30				
2-Chlorotoluene	115	122	42-146	2	30				
4-Chlorotoluene	111	118	39-145	3	30				
Chlorotrifluoroethene	118	113	70-130	10	30				
1,2-Dibromo-3-chloropropane	92	89	30-139	7	30				
Dibromochloromethane	92	96	51-128	2	30				
1,2-Dibromoethane	101	103	54-129	2	30				
Dibromomethane	104	107	57-130	1	30				
1,2-Dichlorobenzene	103	107	36-133	1	30				
1,3-Dichlorobenzene	107	112	34-134	2	30				
1,4-Dichlorobenzene	106	110	35-136	0	30				
Dichlorodifluoromethane	78	77	26-151	5	30				
1,1-Dichloroethane	111	117	63-142	2	30				
1,2-Dichloroethane	104	108	68-131	0	30				
1,1-Dichloroethene	118	126	61-149	2	30				
cis-1,2-Dichloroethene	111	116	60-136	0	30				
trans-1,2-Dichloroethene	113	117	59-142	0	30				
1,2-Dichloropropane	110	117	62-135	2	30				
1,3-Dichloropropane	105	108	58-129	1	30				
2,2-Dichloropropane	102	109	53-147	3	30				
1,1-Dichloropropene	114	119	54-145	1	30				
cis-1,3-Dichloropropene	97	105	51-131	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
trans-1,3-Dichloropropene	94	98	49-129	0	30				
Ethylbenzene	111	115	44-141	0	30				
Freon 113	128	136	56-156	3	30				
Freon 133a	133*	126	61-131	12	30				
Hexachlorobutadiene	106	104	10-155	5	30				
2-Hexanone	143	138	32-160	7	30				
Isopropylbenzene	110	114	38-144	0	30				
p-Isopropyltoluene	124	127	29-152	1	30				
Methyl Tertiary Butyl Ether	98	100	55-129	2	30				
4-Methyl-2-pentanone	106	101	46-139	9	30				
Methylene Chloride	105	142*	61-141	23	30				
n-Propylbenzene	129	132	39-157	1	30				
Styrene	101	105	35-134	0	30				
1,1,1,2-Tetrachloroethane	97	102	52-130	2	30				
1,1,2,2-Tetrachloroethane	110	111	40-152	3	30				
Tetrachloroethene	108	114	42-149	2	30				
Toluene	109	115	50-146	2	30				
1,2,3-Trichlorobenzene	86	84	10-140	6	30				
1,2,4-Trichlorobenzene	90	90	10-136	4	30				
1,1,1-Trichloroethane	92	98	64-142	3	30				
1,1,2-Trichloroethane	104	107	54-139	1	30				
Trichloroethene	109	114	53-144	1	30				
Trichlorofluoromethane	111	111	47-163	4	30				
1,2,3-Trichloropropane	110	109	45-154	4	30				
1,2,4-Trimethylbenzene	118	123	37-149	1	30				
1,3,5-Trimethylbenzene	118	124	38-150	2	30				
Vinyl Chloride	97	96	50-154	4	30				
m+p-Xylene	107	111	44-137	1	30				
o-Xylene	104	108	42-137	0	30				
Batch number: E110872AA	Sample number(s): 6240605,6240607-6240610 UNSPK: P239176								
1,4-Dioxane	119	113	70-130	4	30				
Batch number: 11089SLD026	Sample number(s): 6240605-6240610 UNSPK: P239176								
Acenaphthene	92	82	63-105	11	30				
Acenaphthylene	98	88	67-114	11	30				
Anthracene	95	90	60-122	5	30				
Benzo(a)anthracene	109	94	59-128	14	30				
Benzo(a)pyrene	104	93	45-138	11	30				
Benzo(b)fluoranthene	114	95	43-155	18	30				
Benzo(g,h,i)perylene	104	93	33-141	12	30				
Benzo(k)fluoranthene	100	90	42-144	11	30				
Butylbenzylphthalate	109	120	57-173	10	30				
Di-n-butylphthalate	113	107	65-148	6	30				
Chrysene	84	78	48-134	8	30				
Dibenz(a,h)anthracene	108	96	22-133	12	30				
Diethylphthalate	119	106	70-136	12	30				
Dimethylphthalate	110	100	74-118	10	30				
Bis(2-Ethylhexyl)phthalate	116	144	39-167	21	30				
Fluoranthene	102	95	26-166	8	30				
Fluorene	103	91	66-122	12	30				
Indeno(1,2,3-cd)pyrene	108	96	21-143	11	30				
1-Methylnaphthalene	89	81	72-123	9	30				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Methylnaphthalene	105*	99	64-103	5	30				
Naphthalene	95	86	61-102	10	30				
N-Nitrosodimethylamine	85	77	48-113	10	30				
Di-n-octylphthalate	120	116	40-192	3	30				
Phenanthrene	98	88	12-165	11	30				
Pyrene	93	84	15-153	9	30				
Batch number: 11091SLC026	Sample number(s): 6240605-6240610 UNSPK: P239176								
Aniline	63	66	35-95	7	30				
Benzidine	43	43	35-141	0	30				
Benzoic acid	72	67	10-173	6	30				
Benzyl alcohol	82	82	67-115	2	30				
4-Bromophenyl-phenylether	96	97	67-129	2	30				
Carbazole	86	88	64-120	3	30				
4-Chloro-3-methylphenol	78	76	76-110	1	30				
4-Chloroaniline	36	47	23-95	28	30				
bis(2-Chloroethoxy)methane	78	79	75-104	2	30				
bis(2-Chloroethyl)ether	79	79	60-116	2	30				
bis(2-Chloroisopropyl)ether	64	64	55-142	1	30				
2-Chloronaphthalene	94	70	50-141	27	30				
2-Chlorophenol	90	91	73-121	2	30				
4-Chlorophenyl-phenylether	89	90	80-109	3	30				
Dibenzofuran	89	89	71-112	1	30				
1,2-Dichlorobenzene	87	86	66-108	0	30				
1,3-Dichlorobenzene	83	84	63-109	2	30				
1,4-Dichlorobenzene	84	86	70-100	4	30				
3,3'-Dichlorobenzidine	63	68	16-119	10	30				
2,4-Dichlorophenol	93	93	78-117	1	30				
2,4-Dimethylphenol	80	79	78-110	0	30				
3,5-Dimethylphenol	86	87	70-130	2	30				
4,6-Dinitro-2-methylphenol	81	76	24-116	4	30				
2,4-Dinitrophenol	62	57	20-143	8	30				
2,4-Dinitrotoluene	82	84	73-113	4	30				
2,6-Dinitrotoluene	85	86	69-123	3	30				
1,2-Diphenylhydrazine	78	79	71-129	3	30				
Hexachlorobenzene	93	95	77-114	3	30				
Hexachlorobutadiene	88	89	62-120	2	30				
Hexachlorocyclopentadiene	64	67	10-153	6	30				
Hexachloroethane	74	77	57-109	4	30				
Isophorone	73	72*	73-102	1	30				
2-Methylphenol	83	83	75-111	2	30				
4-Methylphenol	85	86	71-111	3	30				
2-Nitroaniline	86	87	67-125	2	30				
3-Nitroaniline	81	80	59-122	0	30				
4-Nitroaniline	59	60	52-112	4	30				
Nitrobenzene	70*	70*	72-106	2	30				
2-Nitrophenol	92	92	74-115	1	30				
4-Nitrophenol	64	58	54-113	8	30				
N-Nitroso-di-n-propylamine	66	67	60-116	4	30				
N-Nitrosodiphenylamine	99	100	86-145	2	30				
Pentachlorophenol	81	80	28-127	1	30				
Phenol	78	79	58-126	3	30				
1,2,4-Trichlorobenzene	93	91	72-115	1	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,5-Trichlorophenol	89	90	78-109	3	30				
2,4,6-Trichlorophenol	92	91	77-115	1	30				
Batch number: 11092SLB026	Sample number(s): 6240607-6240610 UNSPK: P239176								
N-Nitrosodimethylamine	132*	140*	70-130	6	30				
Batch number: 11087A34A	Sample number(s): 6240607-6240610 UNSPK: P239176								
9a TPH by EPA 8015B Gas C5-C12	69	70	39-118	1	30				
Batch number: 110900049A	Sample number(s): 6240607-6240610 UNSPK: P239176								
4-Amino-2,6-Dinitrotoluene	106	103	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	103	103	80-137	0	50				
1,3-Dinitrobenzene	104	101	38-166	2	50				
2,4-Dinitrotoluene	99	97	80-131	1	50				
2,6-Dinitrotoluene	104	103	80-127	1	50				
HMX	96	94	63-128	2	50				
Nitrobenzene	92	90	80-125	2	50				
Nitroglycerin	95	93	80-120	1	50				
2-Nitrotoluene	103	102	80-122	1	50				
3-Nitrotoluene	104	102	72-119	2	50				
4-Nitrotoluene	102	101	80-125	1	50				
PETN	112	110	80-121	2	50				
RDX	99	99	75-129	1	50				
Tetryl	81	87	55-174	8	50				
1,3,5-Trinitrobenzene	98	100	82-126	2	50				
2,4,6-Trinitrotoluene	105	104	82-130	1	50				
Batch number: 110870004A	Sample number(s): 6240607-6240610 UNSPK: P239176								
25a Formaldehyde 8315A	98	106	80-120	7	50				
Batch number: 110900028A	Sample number(s): 6240605 UNSPK: P235704								
6a Perchlorate EPA 6850	106	103	80-120	3	20				
Batch number: 110900040A	Sample number(s): 6240606-6240610 UNSPK: P239176								
PCB-1016	86	84	29-146	2	50				
PCB-1260	75	93	39-149	17	50				
Batch number: 110940035A	Sample number(s): 6240605 UNSPK: P244296								
PCB-1016	90	90	29-146	0	50				
PCB-1260	102	98	39-149	3	50				
Batch number: 110900035A	Sample number(s): 6240607-6240610 UNSPK: P239176								
EFH (C12-C14)	100	92	49-123	9	20				
EFH (C15-C20)	234*	114	49-123	69*	20				
EFH (C21-C30)	1671*	-112*	49-123	167*	20				
EFH (C30 - C40)	2421 (2)	-308 (2)	49-123	168*	20				
EFH (C8-C11)	79	67	49-123	10	20				
Batch number: 110870001A	Sample number(s): 6240608-6240610 UNSPK: P239176								
Diethylene glycol	74	90	59-109	20	20				
Ethylene glycol	81	89	63-107	9	20				
Propylene glycol	81	87	63-107	7	20				

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110880031A	Sample number(s): 6240607-6240610 UNSPK: P239176								
Ethanol	77	80	48-130	4	20				
Isopropanol	79	82	12-149	4	20				
Methanol	78	81	43-138	4	20				
Batch number: 110890005A	Sample number(s): 6240607 UNSPK: P241846								
Diethylene glycol	46*	75	59-109	47*	20				
Ethylene glycol	74	87	63-107	16	20				
Propylene glycol	78	87	63-107	12	20				
Batch number: 110920003A	Sample number(s): 6240607-6240610 UNSPK: P239176								
m-Terphenyl	72*	80	75-125	10	20				
o-Terphenyl	88	97	75-125	10	20				
p-Terphenyl	71*	77	75-125	9	20				
Batch number: 110881026002A	Sample number(s): 6240605-6240610 UNSPK: P239176 BKG: P239176								
Antimony	24*	30*	75-125	17	20	0.0927 J	0.0625 J	39* (1)	20
Arsenic	123	120	75-125	2	20	3.63	3.46	5	20
Beryllium	113	103	75-125	8	20	0.407	0.397	3 (1)	20
Cadmium	105	108	75-125	0	20	0.119	0.0671 J	56* (1)	20
Chromium	129*	106	75-125	10	20	14.7	11.8	22*	20
Cobalt	107	108	75-125	2	20	5.84	4.58	24*	20
Copper	133*	120	75-125	8	20	8.68	6.67	26*	20
Lead	102	85	75-125	8	20	5.00	4.51	10	20
Nickel	138*	125	75-125	7	20	12.1	9.88	20	20
Silver	97	102	75-125	1	20	0.0231 J	0.0147 J	44* (1)	20
Thallium	116	91	75-125	17	20	0.213	0.203	4 (1)	20
Vanadium	115	81	75-125	9	20	30.6	25.7	18	20
Zinc	-70 (2)	-107 (2)	75-125	5	20	81.4	64.2	24*	20
Batch number: 110881026002B	Sample number(s): 6240605-6240610 UNSPK: P239176 BKG: P239176								
Selenium	101	88	75-125	15	20	0.104 J	0.0734 J	35* (1)	20
Batch number: 110881026002C	Sample number(s): 6240605-6240610 UNSPK: P239176 BKG: P239176								
Molybdenum	108	111	75-125	0	20	0.424	0.353	18 (1)	20
Batch number: 110881026002D	Sample number(s): 6240605-6240610 UNSPK: P239176 BKG: P239176								
Barium	379 (2)	228 (2)	75-125	11	20	106	80.8	27*	20
Batch number: 110885708004	Sample number(s): 6240605-6240610 UNSPK: P239176 BKG: P239176								
Aluminum	2355 (2)	2579 (2)	75-125	2	20	12,800	11,700	9	20
Boron	97	96	84-115	2	20	6.80	6.48	5 (1)	20
Calcium	151 (2)	171 (2)	75-125	2	20	2,490	2,610	5	20
Iron	3391 (2)	2762 (2)	75-125	3	20	16,600	16,000	4	20
Lithium	100	102	82-114	1	20	19.8	21.2	7	20
Magnesium	283 (2)	378 (2)	75-125	4	20	3,610	3,550	2	20
Manganese	279 (2)	166 (2)	75-125	16	20	248	246	1	20
Phosphorus	151*	103	75-125	11	20	304	287	6	20
Potassium	198*	155*	75-125	9	20	3,190	2,970	7	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Sodium	99	104	75-125	4	20	194		194		0 (1)	20
Strontium	102	99	75-115	3	20	15.6		13.7		13	20
Tin	88	86	80-110	3	20	2.93	J	3.04	J	4 (1)	20
Titanium	308 (2)	284 (2)	75-125	2	20	990		941		5	20
Zirconium	92	94	75-125	1	20	1.32	J	0.840	U	200* (1)	20
Batch number: 110885711002	Sample number(s): 6240605-6240610 UNSPK: P239176 BKG: P239176										
Mercury	90	92	65-135	5	20	0.0028	U	0.0028	U	0 (1)	20
Batch number: 11094094201A	Sample number(s): 6240605-6240607 UNSPK: P239176 BKG: P239176										
7a Perchlorate EPA 314.0	96		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11094094201B	Sample number(s): 6240608-6240610 UNSPK: 6240608 BKG: 6240608										
7a Perchlorate EPA 314.0	107		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11094495201A	Sample number(s): 6240605-6240607 UNSPK: P239176 BKG: P239176										
11a Anions by 300.0 - Fluoride	61*		80-120			2.8		2.8		0 (1)	20
11a Anions by 300.0 - Nitrate	94		80-120			1.7		1.7		4 (1)	20
Batch number: 11094495201B	Sample number(s): 6240608-6240610 UNSPK: 6240608 BKG: 6240608										
11a Anions by 300.0 - Fluoride	57*		80-120			2.6		2.4		6 (1)	20
11a Anions by 300.0 - Nitrate	85		80-120			1.7		1.7		0 (1)	20
Batch number: 11097102201A	Sample number(s): 6240607-6240610 UNSPK: 6240607 BKG: 6240607										
17a Cyanide by 9012B	103		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11102243201A	Sample number(s): 6240605-6240610 UNSPK: P239176 BKG: P239176										
3a Cr VI by EPA 7199	98		75-125			0.20	U	0.47	J	200* (1)	20
Batch number: 11087039401B	Sample number(s): 6240605-6240610 BKG: P239180										
18a pH by 9045C						6.64		6.64		0	1
Batch number: 11087182101B	Sample number(s): 6240605-6240610 BKG: P239180										
32a OR Potential						419		422		1	6
Batch number: 11096162401A	Sample number(s): 6240605-6240606 BKG: 6240605										
Moisture Content by 160.3						15.5		15.0		3	20
Batch number: 11101162401A	Sample number(s): 6240607-6240610 BKG: P239176										
Moisture Content by 160.3						12.0		11.0		9	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110861AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Surrogate Quality Control

6240605	97	92	100	92
6240607	97	97	99	92
6240608	98	98	97	93
6240609	97	96	99	92
6240610	99	100	98	92
Blank	99	101	98	96
LCS	99	103	101	99
MS	99	100	103	96
MSD	96	95	102	95
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110871AA

	Toluene-d8
6240611	96
Blank	95
LCS	98
LCSD	95
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110872AA

	Toluene-d8
6240605	95
6240607	94
6240608	97
6240609	93
6240610	97
Blank	100
LCS	93
MS	96
MSD	94
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110883AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6240611	107	101	98	92
Blank	106	100	98	93
LCS	107	105	99	99
LCSD	106	105	99	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11089SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6240605	99	88	103
6240606	102	89	113
6240607	102	92	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Surrogate Quality Control

6240608	102	94	117
6240609	102	93	104
6240610	98	89	99
Blank	111	104	112
LCS	110	104	113
MS	102	93	99
MSD	91	83	91
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11091SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6240605	75	81	89	67	88	95
6240606	76	82	85	65	86	91
6240607	76	84	86	66	86	91
6240608	76	82	86	67	87	93
6240609	79	86	88	70	89	95
6240610	76	82	84	68	88	93
Blank	81	87	89	71	91	95
LCS	80	85	89	69	88	93
MS	79	85	85	69	89	96
MSD	81	87	86	68	90	97
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11092SLB026

	N-Nitrosodimethylamine-d6
6240607	109
6240608	109
6240609	99
6240610	105
Blank	94
LCS	96
MS	94
MSD	102
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11087A34A

	Trifluorotoluene-F
6240607	75
6240608	73
6240609	76
6240610	83
Blank	86
LCS	85
MS	78
MSD	78
Limits:	61-122

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Surrogate Quality Control

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11094A20A

	Trifluorotoluene-F
6240611	77
Blank	75
LCS	112
LCSD	115
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110870004A

	Butyraldehyde
6240607	98
6240608	100
6240609	97
6240610	105
Blank	103
LCS	100
MS	103
MSD	103
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110900040A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6240606	93	95
6240607	86	91
6240608	91	96
6240609	87	86
6240610	88	89
Blank	89	97
LCS	90	90
LCSD	91	98
MS	83	83
MSD	80	88
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 110900049A

	2-Nitro-m-xylene
6240607	111
6240608	108
6240609	105
6240610	94
Blank	108
LCS	285*
LCSD	97
MS	111
MSD	108

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Surrogate Quality Control

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110940035A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6240605	94	102
Blank	86	101
LCS	92	109
LCSD	93	110
MS	90	102
MSD	83	103
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110870001A

	Tetramethylene glycol
6240608	36
6240609	33
6240610	45
Blank	107
LCS	108
MS	98
MSD	86
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 110880031A

	Acetone
6240607	74
6240608	75
6240609	76
6240610	86
Blank	95
LCS	95
MS	78
MSD	79
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 110890005A

	Tetramethylene glycol
6240607	36
Blank	104
LCS	101
MS	87
MSD	82
Limits:	29-137

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239129
Reported: 05/05/11 at 12:18 PM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110900035A

	Chlorobenzene	Orthoterphenyl
6240607	88	90
6240608	79	89
6240609	82	90
6240610	87	95
Blank	90	99
LCS	86	97
MS	90	92
MSD	85	94
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110920003A

	n-Triacontane-d62
6240607	73
6240608	70
6240609	69
6240610	72
Blank	69
LCS	68
MS	72
MSD	88
Limits:	50-150

*- Outside of specification
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acct# 13013 Gp# 1239129 Sample# 6240605-11

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Diuron/Furom EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	*TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-213-SA5A-SB-4.0-5.0	03.25.11	1014	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-213-SA5A-SB-4.5	03.25.11	1009	SOIL	NONE	4-Encores										X	X											
SL-213-SA5A-SB-8.0-9.0	03.25.11	1018	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-143-SA5A-SB-4.0-5.0	03.25.11	1404	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-143-SA5A-SB-4.5	03.25.11	1400	SOIL	NONE	5-Encores										X	X	X										
SL-143-SA5A-SB-8.0-9.0	03.25.11	1415	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-143-SA5A-SB-8.5	03.25.11	1409	SOIL	NONE	5-Encores										X	X	X										
SL-144-SA5A-SB-4.0-5.0	03.25.11	1518	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-144-SA5A-SB-4.5	03.25.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-144-SA5A-SB-7.0-8.0	03.25.11	1524	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-144-SA5A-SB-7.5	03.25.11	1520	SOIL	NONE	5-Encores										X	X	X										
~~TB-032411~~ *	~~03.25.11~~ *	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Other Instructions and Notes
	03/25/2011 / 17:00		Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 3/26/11 0930	Airbill No.(s) 8695 1432 3791	

~~* 03.24.11~~ Sample ID updated to TB-032511 per AMC. Date collected 03.25.11
③ MKJ 3/28/11
MKJ 3/28/11

Natalie R. Luciano

From: Crites, Ann Marie [CritesAM@cdm.com]
Sent: Monday, March 28, 2011 11:56 AM
To: Natalie R. Luciano
Subject: RE: DE112: TB Sample ID

Good Morning Natalie!

Yes, please update the ID to TB-032511.

Thank you

From: Natalie R. Luciano [mailto:NLuciano@lancasterlabs.com]
Sent: Monday, March 28, 2011 8:08 AM
To: Crites, Ann Marie; Bloisa, Peggy
Cc: Zakowski, Cherie; Burgesser, Todd
Subject: DE112: TB Sample ID

Good morning,

Can you confirm the sample ID for the Trip Blank? The COC has TB-032411, but the collection date listed 03.25.11. Should I update the ID to TB-032511?

Thank you,

Natalie Luciano | Lancaster Laboratories | Specialist, Environmental Project Management | 717 656.2300 x1881 | Fax 717 656.6766
2425 New Holland Pike | PO Box 12425 | Lancaster, PA 17601-2425 | nluciano@lancasterlabs.com

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/26/2011
Group Number: 1239130
SDG: DX064
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-213-SA5A-SB-4.0-5.0 Soil	6240612
SL-213-SA5A-SB-8.0-9.0 Soil	6240613
SL-143-SA5A-SB-4.0-5.0 Soil	6240614
SL-143-SA5A-SB-8.0-9.0 Soil	6240615
SL-144-SA5A-SB-4.0-5.0 Soil	6240616
SL-144-SA5A-SB-7.0-8.0 Soil	6240617

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-213-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-4.0-5.0

LLI Sample # SW 6240612
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:14

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6415 SDG#: DX064-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-213-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-4.0-5.0

LLI Sample # SW 6240612
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:14

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6415 SDG#: DX064-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0142 U	0.0142	1.18	1
11031	12378-PeCDD	40321-76-4	0.0599 JBQ	0.0142	5.92	1
11031	123478-HxCDD	39227-28-6	0.0258 JBQ	0.0104	5.92	1
11031	123678-HxCDD	57653-85-7	0.0276 JBQ	0.0105	5.92	1
11031	123789-HxCDD	19408-74-3	0.0292 JBQ	0.00982	5.92	1
11031	1234678-HpCDD	35822-46-9	0.244 JB	0.0157	5.92	1
11031	OCDD	3268-87-9	1.51 JB	0.0299	11.8	1
11031	2378-TCDF	51207-31-9	0.0326 JBQ	0.0102	1.18	1
11031	12378-PeCDF	57117-41-6	0.0754 JB	0.00580	5.92	1
11031	23478-PeCDF	57117-31-4	0.0930 JB	0.00604	5.92	1
11031	123478-HxCDF	70648-26-9	0.0303 JBQ	0.00793	5.92	1
11031	123678-HxCDF	57117-44-9	0.0321 JBQ	0.00604	5.92	1
11031	123789-HxCDF	72918-21-9	0.0358 JBQ	0.00722	5.92	1
11031	234678-HxCDF	60851-34-5	0.0317 JB	0.00592	5.92	1
11031	1234678-HpCDF	67562-39-4	0.0678 JB	0.00473	5.92	1
11031	1234789-HpCDF	55673-89-7	0.0272 JB	0.00746	5.92	1
11031	OCDF	39001-02-0	0.166 JBQ	0.0170	11.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-213-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-4.0-5.0

LLI Sample # SW 6240612
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:14

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6415 SDG#: DX064-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-213-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-4.0-5.0

LLI Sample # SW 6240612
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:14

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6415 SDG#: DX064-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/08/2011 12:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-213-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-8.0-9.0

LLI Sample # SW 6240613
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:18

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6416 SDG#: DX064-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-213-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-8.0-9.0

LLI Sample # SW 6240613
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:18

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6416 SDG#: DX064-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0142 U	0.0142	1.22	1
11031	12378-PeCDD	40321-76-4	0.0304 JBQ	0.0164	6.08	1
11031	123478-HxCDD	39227-28-6	0.0231 JBQ	0.0162	6.08	1
11031	123678-HxCDD	57653-85-7	0.0175 JBQ	0.0165	6.08	1
11031	123789-HxCDD	19408-74-3	0.0424 JBQ	0.0155	6.08	1
11031	1234678-HpCDD	35822-46-9	0.232 JB	0.0185	6.08	1
11031	OCDD	3268-87-9	0.689 JB	0.0308	12.2	1
11031	2378-TCDF	51207-31-9	0.0126 JBQ	0.00937	1.22	1
11031	12378-PeCDF	57117-41-6	0.0237 JB	0.00608	6.08	1
11031	23478-PeCDF	57117-31-4	0.0483 JB	0.00584	6.08	1
11031	123478-HxCDF	70648-26-9	0.0160 JB	0.00827	6.08	1
11031	123678-HxCDF	57117-44-9	0.0273 JBQ	0.00693	6.08	1
11031	123789-HxCDF	72918-21-9	0.0245 JBQ	0.00742	6.08	1
11031	234678-HxCDF	60851-34-5	0.0180 JBQ	0.00645	6.08	1
11031	1234678-HpCDF	67562-39-4	0.0495 JBQ	0.00523	6.08	1
11031	1234789-HpCDF	55673-89-7	0.0119 JB	0.00742	6.08	1
11031	OCDF	39001-02-0	0.0889 JBQ	0.0145	12.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-213-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-8.0-9.0

LLI Sample # SW 6240613
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:18

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6416 SDG#: DX064-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-213-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5A-SB-8.0-9.0

LLI Sample # SW 6240613
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 10:18

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6416 SDG#: DX064-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/08/2011 13:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-143-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-4.0-5.0

LLI Sample # SW 6240614
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:04

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6417 SDG#: DX064-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-143-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-4.0-5.0

LLI Sample # SW 6240614
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:04

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6417 SDG#: DX064-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0227 JQ	0.00963	1.15	1
11031	12378-PeCDD	40321-76-4	0.0556 JB	0.0114	5.73	1
11031	123478-HxCDD	39227-28-6	0.0520 JBQ	0.0118	5.73	1
11031	123678-HxCDD	57653-85-7	0.0568 JB	0.0107	5.73	1
11031	123789-HxCDD	19408-74-3	0.0558 JB	0.00917	5.73	1
11031	1234678-HpCDD	35822-46-9	0.318 JB	0.0153	5.73	1
11031	OCDD	3268-87-9	2.41 JB	0.0195	11.5	1
11031	2378-TCDF	51207-31-9	0.0133 JB	0.00837	1.15	1
11031	12378-PeCDF	57117-41-6	0.0490 JBQ	0.00516	5.73	1
11031	23478-PeCDF	57117-31-4	0.0893 JBQ	0.00550	5.73	1
11031	123478-HxCDF	70648-26-9	0.0987 JBQ	0.0202	5.73	1
11031	123678-HxCDF	57117-44-9	0.0844 JB	0.0131	5.73	1
11031	123789-HxCDF	72918-21-9	0.0963 JB	0.00952	5.73	1
11031	234678-HxCDF	60851-34-5	0.0624 JB	0.00826	5.73	1
11031	1234678-HpCDF	67562-39-4	0.116 JB	0.00986	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0762 JBQ	0.00940	5.73	1
11031	OCDF	39001-02-0	0.250 JB	0.0159	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-143-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-4.0-5.0

LLI Sample # SW 6240614
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:04

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6417 SDG#: DX064-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-143-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-4.0-5.0

LLI Sample # SW 6240614
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:04

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6417 SDG#: DX064-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/13/2011 02:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-143-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-8.0-9.0

LLI Sample # SW 6240615
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:15

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6418 SDG#: DX064-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-143-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-8.0-9.0

LLI Sample # SW 6240615
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:15

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6418 SDG#: DX064-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0197 J	0.0133	1.15	1
11031	12378-PeCDD	40321-76-4	0.0579 JBQ	0.0119	5.73	1
11031	123478-HxCDD	39227-28-6	0.0419 JB	0.0118	5.73	1
11031	123678-HxCDD	57653-85-7	0.0352 JB	0.0122	5.73	1
11031	123789-HxCDD	19408-74-3	0.0537 JB	0.0114	5.73	1
11031	1234678-HpCDD	35822-46-9	0.318 JB	0.0175	5.73	1
11031	OCDD	3268-87-9	2.21 JB	0.0203	11.5	1
11031	2378-TCDF	51207-31-9	0.0156 JBQ	0.00929	1.15	1
11031	12378-PeCDF	57117-41-6	0.0533 JBQ	0.00573	5.73	1
11031	23478-PeCDF	57117-31-4	0.0834 JB	0.00596	5.73	1
11031	123478-HxCDF	70648-26-9	0.0592 JBQ	0.0120	5.73	1
11031	123678-HxCDF	57117-44-9	0.0423 JB	0.00849	5.73	1
11031	123789-HxCDF	72918-21-9	0.100 JB	0.00975	5.73	1
11031	234678-HxCDF	60851-34-5	0.0625 JBQ	0.00826	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0814 JB	0.00734	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0726 JBQ	0.0117	5.73	1
11031	OCDF	39001-02-0	0.245 JB	0.0185	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-143-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-8.0-9.0

LLI Sample # SW 6240615
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:15

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6418 SDG#: DX064-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-143-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5A-SB-8.0-9.0

LLI Sample # SW 6240615
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 14:15

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6418 SDG#: DX064-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/13/2011 03:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-144-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-4.0-5.0

LLI Sample # SW 6240616
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:18

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6419 SDG#: DX064-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-144-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-4.0-5.0

LLI Sample # SW 6240616
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:18

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6419 SDG#: DX064-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0212 JQ	0.00939	1.09	1
11031	12378-PeCDD	40321-76-4	0.0369 JBQ	0.00983	5.46	1
11031	123478-HxCDD	39227-28-6	0.0335 JBQ	0.00906	5.46	1
11031	123678-HxCDD	57653-85-7	0.0335 JB	0.00906	5.46	1
11031	123789-HxCDD	19408-74-3	0.0349 JBQ	0.00852	5.46	1
11031	1234678-HpCDD	35822-46-9	0.422 JB	0.0153	5.46	1
11031	OCDD	3268-87-9	4.48 JB	0.0158	10.9	1
11031	2378-TCDF	51207-31-9	0.0101 JB	0.00655	1.09	1
11031	12378-PeCDF	57117-41-6	0.0403 JB	0.00480	5.46	1
11031	23478-PeCDF	57117-31-4	0.0633 JB	0.00491	5.46	1
11031	123478-HxCDF	70648-26-9	0.0505 JBQ	0.0118	5.46	1
11031	123678-HxCDF	57117-44-9	0.0329 JBQ	0.00764	5.46	1
11031	123789-HxCDF	72918-21-9	0.0812 JB	0.00764	5.46	1
11031	234678-HxCDF	60851-34-5	0.0401 JBQ	0.00622	5.46	1
11031	1234678-HpCDF	67562-39-4	0.0795 JBQ	0.00742	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0449 JB	0.00917	5.46	1
11031	OCDF	39001-02-0	0.247 JB	0.0146	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	89	25 - 164
13C12-12378-PeCDD	100	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	97	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	101	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	104	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	107	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-144-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-4.0-5.0

LLI Sample # SW 6240616
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:18

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6419 SDG#: DX064-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-144-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-4.0-5.0

LLI Sample # SW 6240616
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:18

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6419 SDG#: DX064-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/13/2011 04:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-7.0-8.0

LLI Sample # SW 6240617
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:24

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6420 SDG#: DX064-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-144-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-7.0-8.0

LLI Sample # SW 6240617
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:24

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6420 SDG#: DX064-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0106 JQ	0.00861	1.05	1
11031	12378-PeCDD	40321-76-4	0.0339 JBQ	0.00830	5.25	1
11031	123478-HxCDD	39227-28-6	0.0212 JB	0.00851	5.25	1
11031	123678-HxCDD	57653-85-7	0.0303 JB	0.00851	5.25	1
11031	123789-HxCDD	19408-74-3	0.0320 JBQ	0.00767	5.25	1
11031	1234678-HpCDD	35822-46-9	0.375 JB	0.0150	5.25	1
11031	OCDD	3268-87-9	3.80 JB	0.0158	10.5	1
11031	2378-TCDF	51207-31-9	0.00856 JB	0.00662	1.05	1
11031	12378-PeCDF	57117-41-6	0.0311 JBQ	0.00431	5.25	1
11031	23478-PeCDF	57117-31-4	0.0660 JB	0.00420	5.25	1
11031	123478-HxCDF	70648-26-9	0.0555 JBQ	0.00872	5.25	1
11031	123678-HxCDF	57117-44-9	0.0267 JBQ	0.00599	5.25	1
11031	123789-HxCDF	72918-21-9	0.0500 JB	0.00557	5.25	1
11031	234678-HxCDF	60851-34-5	0.0380 JBQ	0.00483	5.25	1
11031	1234678-HpCDF	67562-39-4	0.0590 JB	0.00693	5.25	1
11031	1234789-HpCDF	55673-89-7	0.0473 JB	0.00809	5.25	1
11031	OCDF	39001-02-0	0.221 JB	0.0128	10.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-7.0-8.0

LLI Sample # SW 6240617
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:24

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6420 SDG#: DX064-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5A-SB-7.0-8.0

LLI Sample # SW 6240617
LLI Group # 1239130
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/25/2011 15:24

Submitted: 03/26/2011 09:30
Reported: 04/22/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6420 SDG#: DX064-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11094001	04/13/2011 05:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11094001	04/04/2011 14:05	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239130
Reported: 04/22/11 at 04:39 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11096162401A	Sample number(s): 6240612-6240613								
Moisture Content by 160.3					100		80-120		
Batch number: 11101162401A	Sample number(s): 6240614-6240617								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11094001	Sample number(s): 6240612-6240617								
2378-TCDD	0.0143 U	0.0143	1.00	ng/kg	109		67-158		
12378-PeCDD	0.0313 J	0.0144	5.00	ng/kg	109		70-142		
123478-HxCDD	0.0177 J	0.0147	5.00	ng/kg	108		70-164		
123678-HxCDD	0.0207 J	0.0155	5.00	ng/kg	107		76-134		
123789-HxCDD	0.0266 J	0.0143	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.231 J	0.0256	5.00	ng/kg	105		70-140		
OCDD	0.889 J	0.0464	10.0	ng/kg	103		78-144		
2378-TCDF	0.0202 J	0.0118	1.00	ng/kg	115		75-158		
12378-PeCDF	0.0280 J	0.00770	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0638 J	0.00740	5.00	ng/kg	105		68-160		
123478-HxCDF	0.0298 J	0.0127	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0271 J	0.0100	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0264 J	0.0109	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0678 J	0.00950	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.184 J	0.0103	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0521 J	0.0130	5.00	ng/kg	102		78-138		
OCDF	0.213 J	0.0190	10.0	ng/kg	101		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11096162401A	Sample number(s): 6240612-6240613					BKG: P240605			
Moisture Content by 160.3						15.5	15.0	3	20
Batch number: 11101162401A	Sample number(s): 6240614-6240617					BKG: P239176			
Moisture Content by 160.3						12.0	11.0	9	20
Batch number: 11094001	Sample number(s): 6240612-6240617					UNSPK: P239187			
2378-TCDD	107	110	67-158	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239130
Reported: 04/22/11 at 04:39 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	111	109	70-142	1	25				
123478-HxCDD	111	110	70-164	0	25				
123678-HxCDD	109	109	76-134	0	25				
123789-HxCDD	108	108	64-162	1	25				
1234678-HpCDD	96	96	70-140	0	25				
OCDD	47*	50*	78-144	3	25				
2378-TCDF	114	116	75-158	2	25				
12378-PeCDF	107	105	80-134	3	25				
23478-PeCDF	106	106	68-160	1	25				
123478-HxCDF	107	105	72-134	2	25				
123678-HxCDF	106	105	84-130	1	25				
123789-HxCDF	104	104	78-130	0	25				
234678-HxCDF	106	106	70-156	1	25				
1234678-HpCDF	102	102	82-122	1	25				
1234789-HpCDF	105	104	78-138	0	25				
OCDF	103	103	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11094001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6240612	76	88	65	84	84	76
6240613	76	87	67	81	82	79
6240614	74	74	32	48	78	77
6240615	74	78	58	76	76	74
6240616	89	95	51	74	92	87
6240617	79	84	48	67	83	81
Blank	73	73	55	69	72	68
MS	83	94	45	63	88	83
MSD	82	96	47	65	86	84
OPR	72	66	26	40	70	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6240612	97	70	64	93	87	80
6240613	94	72	66	96	85	82
6240614	56	70	62	92	80	65
6240615	92	68	63	93	83	82
6240616	86	82	76	107	100	91
6240617	75	76	71	99	88	81
Blank	77	70	69	93	75	73
MS	65	82	75	96	91	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239130
Reported: 04/22/11 at 04:39 PM

Surrogate Quality Control

MSD	69	80	74	92	94	77
OPR	45	65	59	85	76	58
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6240612	88	86	86	82	78	94
6240613	83	83	85	81	77	92
6240614	76	84	86	85	69	83
6240615	81	84	85	83	70	86
6240616	97	99	101	98	86	104
6240617	83	89	89	88	76	91
Blank	76	76	79	80	72	79
MS	84	88	87	84	86	96
MSD	86	88	87	83	83	96
OPR	69	78	78	79	68	79
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1239130 Sample# 6240612-17

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-213-SA5A-SB-4.0-5.0	03.25.11	1014	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-213-SA5A-SB-4.5	03.25.11	1009	SOIL	NONE	4-Encores										X	X											
SL-213-SA5A-SB-8.0-9.0	03.25.11	1018	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-143-SA5A-SB-4.0-5.0	03.25.11	1404	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-143-SA5A-SB-4.5	03.25.11	1400	SOIL	NONE	5-Encores										X	X	X										
SL-143-SA5A-SB-8.0-9.0	03.25.11	1415	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-143-SA5A-SB-8.5	03.25.11	1409	SOIL	NONE	5-Encores										X	X	X										
SL-144-SA5A-SB-4.0-5.0	03.25.11	1518	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-144-SA5A-SB-4.5	03.25.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-144-SA5A-SB-7.0-8.0	03.25.11	1524	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-144-SA5A-SB-7.5	03.25.11	1520	SOIL	NONE	5-Encores										X	X	X										
TB-032411	03.25.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time 03/25/2011 / 17:00	Received for Laboratory by: (Signature)	Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 3/25/11 1930	Airbill No.(s) 8695 1432 3791	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 19, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/29/2011
Group Number: 1239325
SDG: DE113
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-209-SA5A-SB-4.0-5.0 Soil	6241846
SL-211-SA5A-SB-2.5-3.5 Soil	6241847
SL-214-SA5A-SB-4.0-5.0 Soil	6241848
SL-214-SA5A-SB-8.5-9.5 Soil	6241849
SL-215-SA5A-SB-4.0-5.0 Soil	6241850
SL-216-SA5A-SB-4.0-5.0 Soil	6241851
TB-032811 Water	6241852

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-209-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-209-SA5A-SB-4.0-5.0

LLI Sample # SW 6241846
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 15:48

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL209 SDG#: DE113-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.2		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.91
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.91
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.91
06192	Methylene Chloride	75-09-2	2.7	J	0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.91

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-209-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-209-SA5A-SB-4.0-5.0

LLI Sample # SW 6241846
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 15:48

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL209 SDG#: DE113-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.93
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	110		18.7	37.4		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1

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Sample Description: SL-209-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-209-SA5A-SB-4.0-5.0

LLI Sample # SW 6241846
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 15:48

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL209 SDG#: DE113-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1

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Sample Description: SL-209-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-209-SA5A-SB-4.0-5.0

LLI Sample # SW 6241846
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 15:48

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL209 SDG#: DE113-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-209-SA5A-SB-4.0-5.0

LLI Sample # SW 6241846
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 15:48

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL209 SDG#: DE113-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.52	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.46	J	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

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Sample Description: SL-209-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-209-SA5A-SB-4.0-5.0

LLI Sample # SW 6241846
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 15:48

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL209 SDG#: DE113-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,900		5.53	22.0		1
07914	Boron	7440-42-8	17.2		0.979	5.50		1
01650	Calcium	7440-70-2	3,120		6.75	22.0		1
01654	Iron	7439-89-6	28,300		5.18	22.0		1
01656	Lithium	7439-93-2	34.9		0.24	2.2		1
01657	Magnesium	7439-95-4	6,130		2.79	11.0		1
06958	Manganese	7439-96-5	445		0.0858	0.550		1
10145	Phosphorus	7723-14-0	319		0.616	11.0		1
01662	Potassium	7440-09-7	2,770		19.8	55.0		1
01667	Sodium	7440-23-5	108	J	41.0	110		1
07968	Strontium	7440-24-6	23.8		0.0682	0.550		1
06969	Tin	7440-31-5	4.05	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,320		0.418	1.10		1
10146	Zirconium	7440-67-7	2.12	J	0.924	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0883	J	0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.95		0.0889	0.444		2
06126	Barium	7440-39-3	127		0.120	0.444		2
06127	Beryllium	7440-41-7	0.947		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.118		0.0444	0.111		2
06131	Chromium	7440-47-3	26.5		0.133	0.444		2
06132	Cobalt	7440-48-4	8.29		0.0222	0.111		2
06133	Copper	7440-50-8	11.9		0.0733	0.444		2
06135	Lead	7439-92-1	8.94		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.592		0.0556	0.111		2
06139	Nickel	7440-02-0	19.6		0.111	0.444		2
06141	Selenium	7782-49-2	0.0926	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0535	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.333		0.0333	0.111		2
06148	Vanadium	7440-62-2	49.5		0.0244	0.111		2
06149	Zinc	7440-66-6	59.9		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-209-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-209-SA5A-SB-4.0-5.0

LLI Sample # SW 6241846
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 15:48

Submitted: 03/29/2011 09:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL209 SDG#: DE113-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.84	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	314		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.20		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-209-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110901AA	03/31/2011 16:26	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110891AA	03/30/2011 21:32	Sara E Johnson	21.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108823960	03/29/2011 12:51	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108823960	03/29/2011 13:03	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108823960	03/29/2011 13:03	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108823960	03/29/2011 12:52	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/14/2011 14:02	Timothy J Trees	1

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Sample Description: **SL-209-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5A-SB-4.0-5.0

LLI Sample # SW 6241846
LLI Group # 1239325
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SL209 SDG#: DE113-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/05/2011 02:59	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/05/2011 21:43	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 12:40	Elizabeth J Marin	21.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108823960	03/29/2011 12:52	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 13:53	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110900006A	04/01/2011 19:55	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 00:53	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110900006A	03/31/2011 16:45	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 07:54	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/29/2011 23:59	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110890005A	03/30/2011 17:52	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/05/2011 04:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110890005A	03/30/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110895708003	04/07/2011 02:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110895708003	04/08/2011 18:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	110895708003	04/07/2011 02:02	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110895708003	04/07/2011 02:02	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110895708003	04/07/2011 02:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110895708003	04/07/2011 02:02	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110895708003	04/07/2011 02:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110895708003	04/07/2011 02:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110895708003	04/07/2011 02:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110895708003	04/07/2011 02:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110895708003	04/07/2011 02:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110895708003	04/07/2011 02:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110895708003	04/07/2011 02:02	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110895708003	04/07/2011 02:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110891026003A	04/04/2011 13:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110891026003A	04/04/2011 13:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110891026003D	04/04/2011 13:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110891026003A	04/04/2011 13:01	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-209-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5A-SB-4.0-5.0

LLI Sample # SW 6241846
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 15:48

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL209 SDG#: DE113-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110891026003A	04/04/2011 13:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110891026003A	04/04/2011 13:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110891026003A	04/04/2011 13:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110891026003A	04/04/2011 13:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110891026003A	04/04/2011 13:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110891026003C	04/04/2011 13:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110891026003A	04/04/2011 13:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110891026003B	04/04/2011 13:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110891026003A	04/04/2011 13:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110891026003A	04/04/2011 13:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110891026003A	04/04/2011 13:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110891026003A	04/04/2011 13:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110895711004	04/01/2011 08:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110895708003	03/31/2011 08:35	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110891026003	03/31/2011 08:50	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110895711004	03/31/2011 10:30	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11102102201A	04/13/2011 17:46	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11102102201A	04/13/2011 17:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201B	04/11/2011 21:52	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11103243201A	04/18/2011 17:57	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11097102201A	04/07/2011 19:11	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11102999201A	04/12/2011 13:25	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201B	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11097102201A	04/07/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101A	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401A	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-211-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SB-2.5-3.5

LLI Sample # SW 6241847
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 09:50

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL211 SDG#: DE113-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	9.0		1.03
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.03
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.03
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.03
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1.03
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.03
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		1.03
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.03
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.03
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1.03
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.03
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		1.03
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.03
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		1.03
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		1.03
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.03
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.03
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		1.03
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.03
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.03
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		1.03
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.03
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.03
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.03
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1.03
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.03
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.03
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		1.03
06192	Methylene Chloride	75-09-2	2.5	J	0.27	4.5		1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.03

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-211-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SB-2.5-3.5

LLI Sample # SW 6241847
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 09:50

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL211 SDG#: DE113-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.03
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		1.03
06192	Toluene	108-88-3	0.09	U	0.09	4.5		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		1.03
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.03
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.03
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		1.03
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.03
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.03
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		26.04
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	46.4		18.2	36.4		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.								
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-211-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SB-2.5-3.5

LLI Sample # SW 6241847
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 09:50

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL211 SDG#: DE113-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1

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Sample Description: SL-211-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SB-2.5-3.5

LLI Sample # SW 6241847
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 09:50

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL211 SDG#: DE113-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.77
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1

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Sample Description: SL-211-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SB-2.5-3.5

LLI Sample # SW 6241847
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 09:50

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL211 SDG#: DE113-02

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives		**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX		121-82-4	55	U	55	130	10000000	1
10132	Tetryl		479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene		99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene		118-96-7	44	U	44	130	10000000	1
HPLC Organics		**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A		50-00-0	650	U	650	1,600		1
Pesticides/PCBs		**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432		63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442		12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460		11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016		12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221		11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232		11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242		53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248		12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254		11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260		11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262		37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268		11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)		n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)		n.a.	0.53	J	0.44	1.3		1
10199	EFH (C21-C30)		n.a.	1.5		0.44	1.3		1
10199	EFH (C30 - C40)		n.a.	0.60	J	0.44	1.3		1
10199	EFH (C8-C11)		n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous		**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol		64-17-5	110	U	110	550		1
10501	Isopropanol		67-63-0	110	U	110	550		1
10501	Methanol		67-56-1	110	U	110	550		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol		111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol		107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol		57-55-6	5.5	U	5.5	14		1
Terphenyls		**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl		92-06-8	1.6	U	1.6	3.8		1

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Sample Description: SL-211-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SB-2.5-3.5

LLI Sample # SW 6241847
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 09:50

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL211 SDG#: DE113-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,200		5.49	21.8		1
07914	Boron	7440-42-8	16.8		0.971	5.45		1
01650	Calcium	7440-70-2	5,130		6.68	21.8		1
01654	Iron	7439-89-6	34,300		25.7	109		5
01656	Lithium	7439-93-2	43.4		0.24	2.2		1
01657	Magnesium	7439-95-4	6,900		2.77	10.9		1
06958	Manganese	7439-96-5	574		0.0851	0.545		1
10145	Phosphorus	7723-14-0	285		0.611	10.9		1
01662	Potassium	7440-09-7	2,590		19.6	54.5		1
01667	Sodium	7440-23-5	157		40.7	109		1
07968	Strontium	7440-24-6	34.9		0.0676	0.545		1
06969	Tin	7440-31-5	4.41	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,340		0.414	1.09		1
10146	Zirconium	7440-67-7	1.14	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0648	U	0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.56		0.0864	0.432		2
06126	Barium	7440-39-3	116		0.117	0.432		2
06127	Beryllium	7440-41-7	0.885		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0766	J	0.0432	0.108		2
06131	Chromium	7440-47-3	25.5		0.130	0.432		2
06132	Cobalt	7440-48-4	6.18		0.0216	0.108		2
06133	Copper	7440-50-8	12.8		0.0713	0.432		2
06135	Lead	7439-92-1	7.46		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.436		0.0540	0.108		2
06139	Nickel	7440-02-0	20.6		0.108	0.432		2
06141	Selenium	7782-49-2	0.0725	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0237	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.329		0.0324	0.108		2
06148	Vanadium	7440-62-2	46.6		0.0238	0.108		2
06149	Zinc	7440-66-6	58.5		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0112	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.87	U	0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-211-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SB-2.5-3.5

LLI Sample # SW 6241847
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 09:50

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL211 SDG#: DE113-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.87	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	331		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.99		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-211-SA5A-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110911AA	04/01/2011 06:06	Angela D Sneeringer	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110891AA	03/30/2011 21:52	Sara E Johnson	26.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108823960	03/29/2011 12:48	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108823960	03/29/2011 13:03	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108823960	03/29/2011 13:03	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108823960	03/29/2011 12:49	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/14/2011 14:19	Timothy J Trees	1

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Sample Description: **SL-211-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SB-2.5-3.5

LLI Sample # SW 6241847
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL211 SDG#: DE113-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/05/2011 03:24	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/05/2011 22:15	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 13:52	Elizabeth J Marin	22.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108823960	03/29/2011 12:48	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 14:35	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110900006A	04/01/2011 20:24	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 01:12	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110900006A	03/31/2011 16:45	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 08:19	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/30/2011 00:14	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110890005A	03/30/2011 18:10	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/05/2011 05:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110890005A	03/30/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110895708003	04/07/2011 02:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110895708003	04/08/2011 18:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	110895708003	04/07/2011 02:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110895708003	04/08/2011 18:55	John P Hook	5
01656	Lithium	SW-846 6010B	1	110895708003	04/07/2011 02:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110895708003	04/07/2011 02:13	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110895708003	04/07/2011 02:13	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110895708003	04/07/2011 02:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110895708003	04/07/2011 02:13	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110895708003	04/07/2011 02:13	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110895708003	04/07/2011 02:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110895708003	04/07/2011 02:13	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110895708003	04/07/2011 02:13	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110895708003	04/07/2011 02:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110891026003A	04/04/2011 13:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110891026003A	04/04/2011 13:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110891026003D	04/04/2011 13:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110891026003A	04/04/2011 13:04	Choon Y Tian	2

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Sample Description: **SL-211-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SB-2.5-3.5

LLI Sample # SW 6241847
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 09:50

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL211 SDG#: DE113-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110891026003A	04/04/2011 13:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110891026003A	04/04/2011 13:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110891026003A	04/04/2011 13:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110891026003A	04/04/2011 13:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110891026003A	04/04/2011 13:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110891026003C	04/04/2011 13:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110891026003A	04/04/2011 13:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110891026003B	04/04/2011 13:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110891026003A	04/04/2011 13:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110891026003A	04/04/2011 13:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110891026003A	04/04/2011 13:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110891026003A	04/04/2011 13:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110895711004	04/01/2011 08:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110895708003	03/31/2011 08:35	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110891026003	03/31/2011 08:50	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110895711004	03/31/2011 10:30	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11102102201A	04/13/2011 18:27	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11102102201A	04/13/2011 18:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201B	04/11/2011 22:15	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11103243201A	04/18/2011 18:12	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11097102201A	04/07/2011 19:12	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11102999201A	04/12/2011 13:25	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201B	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11097102201A	04/07/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101A	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401A	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-214-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-4.0-5.0

LLI Sample # SW 6241848
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:03

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2144 SDG#: DE113-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.96
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.96
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.96
06192	Bromomethane	74-83-9	0.27	U	0.27	4.2		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.96
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.96
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.96
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.96
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.96
06192	Methylene Chloride	75-09-2	2.6	J	0.25	4.2		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.96

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Sample Description: SL-214-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-4.0-5.0

LLI Sample # SW 6241848
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:03

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2144 SDG#: DE113-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.96
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.96
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.74
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1

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Sample Description: **SL-214-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-4.0-5.0

LLI Sample # SW 6241848
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:03

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2144 SDG#: DE113-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.2	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1

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Sample Description: SL-214-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-4.0-5.0

LLI Sample # SW 6241848
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:03

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2144 SDG#: DE113-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.84	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	12	J	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	3.3		0.37	1.9		1
10225	PCB-1260	11096-82-5	9.1		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		5.53	22.0		1
07914	Boron	7440-42-8	20.5		0.979	5.50		1
01650	Calcium	7440-70-2	2,250		6.74	22.0		1
01654	Iron	7439-89-6	19,400		5.18	22.0		1
01656	Lithium	7439-93-2	18.9		0.24	2.2		1
01657	Magnesium	7439-95-4	3,960		2.79	11.0		1
06958	Manganese	7439-96-5	355		0.0858	0.550		1
10145	Phosphorus	7723-14-0	276		0.616	11.0		1
01662	Potassium	7440-09-7	3,440		19.8	55.0		1
01667	Sodium	7440-23-5	121		41.0	110		1
07968	Strontium	7440-24-6	19.9		0.0682	0.550		1
06969	Tin	7440-31-5	3.34	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,150		0.418	1.10		1
10146	Zirconium	7440-67-7	2.07	J	0.924	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0654	U	0.0654	0.218		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-214-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-4.0-5.0

LLI Sample # SW 6241848
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:03

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2144 SDG#: DE113-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	4.48		0.0871	0.436		2
06126	Barium	7440-39-3	130		0.118	0.436		2
06127	Beryllium	7440-41-7	0.699		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.211		0.0436	0.109		2
06131	Chromium	7440-47-3	20.9		0.131	0.436		2
06132	Cobalt	7440-48-4	5.79		0.0218	0.109		2
06133	Copper	7440-50-8	11.2		0.0719	0.436		2
06135	Lead	7439-92-1	6.02		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.551		0.0545	0.109		2
06139	Nickel	7440-02-0	15.5		0.109	0.436		2
06141	Selenium	7782-49-2	0.167	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0354	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.299		0.0327	0.109		2
06148	Vanadium	7440-62-2	38.7		0.0240	0.109		2
06149	Zinc	7440-66-6	58.8		0.610	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.89	U	0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	361		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.76		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-214-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-4.0-5.0

LLI Sample # SW 6241848
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:03

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2144 SDG#: DE113-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-214-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110911AA	04/01/2011 06:28	Angela D Sneeringer	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110891AA	03/30/2011 22:12	Sara E Johnson	21.74
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108823960	03/29/2011 13:00	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108823960	03/29/2011 13:03	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108823960	03/29/2011 13:03	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108823960	03/29/2011 13:01	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/05/2011 03:49	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011 06:48	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110900028A	04/01/2011 15:38	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 01:31	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110900028A	04/01/2011 09:15	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110895708003	04/07/2011 02:17	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110895708003	04/08/2011 18:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	110895708003	04/07/2011 02:17	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110895708003	04/07/2011 02:17	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110895708003	04/07/2011 02:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110895708003	04/07/2011 02:17	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110895708003	04/07/2011 02:17	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110895708003	04/07/2011 02:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110895708003	04/07/2011 02:17	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110895708003	04/07/2011 02:17	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110895708003	04/07/2011 02:17	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110895708003	04/07/2011 02:17	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110895708003	04/07/2011 02:17	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110895708003	04/07/2011 02:17	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110891026003A	04/04/2011 13:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110891026003A	04/04/2011 13:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110891026003D	04/04/2011 13:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110891026003A	04/04/2011 13:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110891026003A	04/04/2011 13:13	Choon Y Tian	2

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Sample Description: **SL-214-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-4.0-5.0

LLI Sample # SW 6241848
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:03

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2144 SDG#: DE113-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110891026003A	04/04/2011 13:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110891026003A	04/04/2011 13:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110891026003A	04/04/2011 13:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110891026003A	04/04/2011 13:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110891026003C	04/04/2011 13:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110891026003A	04/04/2011 13:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110891026003B	04/04/2011 13:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110891026003A	04/04/2011 13:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110891026003A	04/04/2011 13:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110891026003A	04/04/2011 13:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110891026003A	04/04/2011 13:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110895711004	04/01/2011 08:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110895708003	03/31/2011 08:35	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110891026003	03/31/2011 08:50	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110895711004	03/31/2011 10:30	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11102102201A	04/13/2011 18:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201B	04/11/2011 22:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11103243201A	04/18/2011 18:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11102999201A	04/12/2011 13:25	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201B	04/04/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101A	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401A	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-214-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-8.5-9.5

LLI Sample # SW 6241849
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:05

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2148 SDG#: DE113-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-214-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-8.5-9.5

LLI Sample # SW 6241849
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:05

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2148 SDG#: DE113-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-214-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-8.5-9.5

LLI Sample # SW 6241849
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:05

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2148 SDG#: DE113-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,500		5.52	21.9		1
07914	Boron	7440-42-8	12.9		0.976	5.48		1
01650	Calcium	7440-70-2	2,380		6.72	21.9		1
01654	Iron	7439-89-6	25,500		5.17	21.9		1
01656	Lithium	7439-93-2	28.6		0.24	2.2		1
01657	Magnesium	7439-95-4	5,040		2.79	11.0		1
06958	Manganese	7439-96-5	192		0.0855	0.548		1
10145	Phosphorus	7723-14-0	125		0.614	11.0		1
01662	Potassium	7440-09-7	1,840		19.7	54.8		1
01667	Sodium	7440-23-5	388		40.9	110		1
07968	Strontium	7440-24-6	21.8		0.0680	0.548		1
06969	Tin	7440-31-5	3.85	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,190		0.417	1.10		1
10146	Zirconium	7440-67-7	1.85	J	0.921	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0859	J	0.0645	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.45		0.0860	0.430		2
06126	Barium	7440-39-3	98.4		0.116	0.430		2
06127	Beryllium	7440-41-7	1.19		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.0430	U	0.0430	0.108		2
06131	Chromium	7440-47-3	28.0		0.129	0.430		2
06132	Cobalt	7440-48-4	6.79		0.0215	0.108		2
06133	Copper	7440-50-8	13.0		0.0710	0.430		2
06135	Lead	7439-92-1	10.6		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.552		0.0538	0.108		2
06139	Nickel	7440-02-0	15.5		0.108	0.430		2
06141	Selenium	7782-49-2	0.141	J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0333	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.357		0.0323	0.108		2
06148	Vanadium	7440-62-2	56.8		0.0237	0.108		2
06149	Zinc	7440-66-6	55.4		0.602	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0052	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.89	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-214-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-8.5-9.5

LLI Sample # SW 6241849
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:05

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2148 SDG#: DE113-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	330		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified	**Std. Units**			**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/05/2011	04:14	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/05/2011	23:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011	03:15	David V Hershey Jr	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110900028A	04/01/2011	15:45	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011	01:49	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011	02:15	Sherry L Morrow	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110900028A	04/01/2011	09:15	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110895708003	04/07/2011	02:21	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-214-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-8.5-9.5

LLI Sample # SW 6241849
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:05

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2148 SDG#: DE113-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	110895708003	04/08/2011 19:02	John P Hook	1
01650	Calcium	SW-846 6010B	1	110895708003	04/07/2011 02:21	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110895708003	04/07/2011 02:21	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110895708003	04/07/2011 02:21	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110895708003	04/07/2011 02:21	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110895708003	04/07/2011 02:21	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110895708003	04/07/2011 02:21	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110895708003	04/07/2011 02:21	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110895708003	04/07/2011 02:21	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110895708003	04/07/2011 02:21	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110895708003	04/07/2011 02:21	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110895708003	04/07/2011 02:21	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110895708003	04/07/2011 02:21	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110891026003A	04/04/2011 13:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110891026003A	04/04/2011 13:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110891026003D	04/04/2011 13:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110891026003A	04/04/2011 13:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110891026003A	04/04/2011 13:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110891026003A	04/04/2011 13:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110891026003A	04/04/2011 13:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110891026003A	04/04/2011 13:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110891026003A	04/04/2011 13:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110891026003C	04/04/2011 13:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110891026003A	04/04/2011 13:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110891026003B	04/04/2011 13:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110891026003A	04/04/2011 13:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110891026003A	04/04/2011 13:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110891026003A	04/04/2011 13:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110891026003A	04/04/2011 13:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110895711004	04/01/2011 08:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110895708003	03/31/2011 08:35	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110891026003	03/31/2011 08:50	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110895711004	03/31/2011 10:30	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201B	04/16/2011 13:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201B	04/11/2011 23:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11103243201A	04/18/2011 18:33	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11105105201B	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201B	04/04/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101A	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401A	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-215-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SB-4.0-5.0

LLI Sample # SW 6241850
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 14:52

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2154 SDG#: DE113-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.88
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.88
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.88
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.88
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.88
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.88
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.88
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.88
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.88
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.88
06192	Methylene Chloride	75-09-2	2.6	J	0.23	3.9		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.88

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-215-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SB-4.0-5.0

LLI Sample # SW 6241850
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 14:52

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2154 SDG#: DE113-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.88
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.88
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.48
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1

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Sample Description: **SL-215-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SB-4.0-5.0

LLI Sample # SW 6241850
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 14:52

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2154 SDG#: DE113-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.57	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1

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Sample Description: SL-215-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SB-4.0-5.0

LLI Sample # SW 6241850
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 14:52

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2154 SDG#: DE113-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	8.6		2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.9	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	5.7		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,300		5.58	22.2		1
07914	Boron	7440-42-8	20.5		0.988	5.55		1
01650	Calcium	7440-70-2	2,790		6.80	22.2		1
01654	Iron	7439-89-6	20,400		5.23	22.2		1
01656	Lithium	7439-93-2	21.4		0.24	2.2		1
01657	Magnesium	7439-95-4	4,270		2.82	11.1		1
06958	Manganese	7439-96-5	321		0.0866	0.555		1
10145	Phosphorus	7723-14-0	561		0.622	11.1		1
01662	Potassium	7440-09-7	4,280		20.0	55.5		1
01667	Sodium	7440-23-5	112		41.4	111		1
07968	Strontium	7440-24-6	20.1		0.0688	0.555		1
06969	Tin	7440-31-5	3.13	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,080		0.422	1.11		1
10146	Zirconium	7440-67-7	2.18	J	0.932	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0967	J	0.0666	0.222		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

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Sample Description: SL-215-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SB-4.0-5.0

LLI Sample # SW 6241850
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 14:52

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2154 SDG#: DE113-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	5.68		0.0888	0.444		2
06126	Barium	7440-39-3	138		0.120	0.444		2
06127	Beryllium	7440-41-7	0.770		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.262		0.0444	0.111		2
06131	Chromium	7440-47-3	23.5		0.133	0.444		2
06132	Cobalt	7440-48-4	6.32		0.0222	0.111		2
06133	Copper	7440-50-8	75.1		0.0733	0.444		2
06135	Lead	7439-92-1	9.16		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.728		0.0555	0.111		2
06139	Nickel	7440-02-0	17.7		0.111	0.444		2
06141	Selenium	7782-49-2	0.183	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0416	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.362		0.0333	0.111		2
06148	Vanadium	7440-62-2	42.3		0.0244	0.111		2
06149	Zinc	7440-66-6	104		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0036	J	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	380		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.17		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-215-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SB-4.0-5.0

LLI Sample # SW 6241850
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 14:52

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2154 SDG#: DE113-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-215-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110911AA	04/01/2011 06:51	Angela D Sneeringer	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110891AA	03/30/2011 22:32	Sara E Johnson	22.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108823960	03/29/2011 12:58	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108823960	03/29/2011 13:03	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108823960	03/29/2011 13:03	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108823960	03/29/2011 12:58	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/05/2011 04:39	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/05/2011 23:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110900028A	04/01/2011 15:51	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 02:08	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110900028A	04/01/2011 09:15	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110895708003	04/07/2011 02:25	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110895708003	04/08/2011 19:06	John P Hook	1
01650	Calcium	SW-846 6010B	1	110895708003	04/07/2011 02:25	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110895708003	04/07/2011 02:25	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110895708003	04/07/2011 02:25	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110895708003	04/07/2011 02:25	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110895708003	04/07/2011 02:25	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110895708003	04/07/2011 02:25	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110895708003	04/07/2011 02:25	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110895708003	04/07/2011 02:25	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110895708003	04/07/2011 02:25	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110895708003	04/07/2011 02:25	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110895708003	04/07/2011 02:25	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110895708003	04/07/2011 02:25	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110891026003A	04/04/2011 13:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110891026003A	04/04/2011 13:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110891026003D	04/04/2011 13:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110891026003A	04/04/2011 13:21	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-215-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SB-4.0-5.0

LLI Sample # SW 6241850
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 14:52

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2154 SDG#: DE113-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110891026003A	04/04/2011 13:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110891026003A	04/04/2011 13:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110891026003A	04/04/2011 13:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110891026003A	04/04/2011 13:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110891026003A	04/04/2011 13:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110891026003C	04/04/2011 13:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110891026003A	04/04/2011 13:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110891026003B	04/04/2011 13:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110891026003A	04/04/2011 13:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110891026003A	04/04/2011 13:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110891026003A	04/04/2011 13:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110891026003A	04/04/2011 13:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110895711004	04/01/2011 08:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110895708003	03/31/2011 08:35	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110891026003	03/31/2011 08:50	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110895711004	03/31/2011 10:30	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11102102201A	04/13/2011 18:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201B	04/11/2011 23:23	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11103243201A	04/18/2011 18:55	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11102999201A	04/12/2011 13:25	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201B	04/04/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101A	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401A	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-216-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA5A-SB-4.0-5.0

LLI Sample # SW 6241851
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 11:30

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE113-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.87
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.87
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.87
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.87
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.87
06192	Methylene Chloride	75-09-2	3.4	J	0.23	3.9		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.87

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Sample Description: SL-216-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA5A-SB-4.0-5.0

LLI Sample # SW 6241851
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 11:30

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE113-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.87
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.87
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.87
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.59
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	76.1		18.8	37.5		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1

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Sample Description: **SL-216-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-216-SA5A-SB-4.0-5.0

LLI Sample # SW 6241851
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 11:30

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE113-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether nitrobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1

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Sample Description: SL-216-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA5A-SB-4.0-5.0

LLI Sample # SW 6241851
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 11:30

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE113-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.37
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1

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Sample Description: SL-216-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA5A-SB-4.0-5.0

LLI Sample # SW 6241851
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 11:30

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Suite 210
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SL216 SDG#: DE113-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.52	J	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	J	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-216-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA5A-SB-4.0-5.0

LLI Sample # SW 6241851
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 11:30

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE113-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.55	22.1		1
07914	Boron	7440-42-8	10.8		0.983	5.52		1
01650	Calcium	7440-70-2	2,040		6.77	22.1		1
01654	Iron	7439-89-6	18,000		5.20	22.1		1
01656	Lithium	7439-93-2	17.6		0.24	2.2		1
01657	Magnesium	7439-95-4	3,720		2.80	11.0		1
06958	Manganese	7439-96-5	311		0.0861	0.552		1
10145	Phosphorus	7723-14-0	309		0.618	11.0		1
01662	Potassium	7440-09-7	3,490		19.9	55.2		1
01667	Sodium	7440-23-5	93.5	J	41.2	110		1
07968	Strontium	7440-24-6	19.5		0.0685	0.552		1
06969	Tin	7440-31-5	3.28	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,060		0.420	1.10		1
10146	Zirconium	7440-67-7	2.08	J	0.927	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0669	U	0.0669	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.98		0.0892	0.446		2
06126	Barium	7440-39-3	162		0.120	0.446		2
06127	Beryllium	7440-41-7	0.784		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.282		0.0446	0.111		2
06131	Chromium	7440-47-3	22.4		0.134	0.446		2
06132	Cobalt	7440-48-4	6.53		0.0223	0.111		2
06133	Copper	7440-50-8	12.9		0.0736	0.446		2
06135	Lead	7439-92-1	6.34		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.702		0.0557	0.111		2
06139	Nickel	7440-02-0	17.1		0.111	0.446		2
06141	Selenium	7782-49-2	0.150	J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0221	J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.315		0.0334	0.111		2
06148	Vanadium	7440-62-2	42.3		0.0245	0.111		2
06149	Zinc	7440-66-6	63.8		0.624	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90	U	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-216-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA5A-SB-4.0-5.0

LLI Sample # SW 6241851
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 11:30

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE113-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	396		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.01		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-216-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110911AA	04/01/2011 07:13	Angela D Sneeringer	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110891AA	03/30/2011 22:52	Sara E Johnson	21.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108823960	03/29/2011 12:54	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108823960	03/29/2011 13:03	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108823960	03/29/2011 13:03	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108823960	03/29/2011 12:55	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/14/2011 14:35	Timothy J Trees	1

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Sample Description: SL-216-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA5A-SB-4.0-5.0

LLI Sample # SW 6241851
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 11:30

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE113-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11091SLC026	04/05/2011 05:04	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011 00:21	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11091SLC026	04/04/2011 03:15	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 14:29	Elizabeth J Marin	21.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108823960	03/29/2011 12:55	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900049A	04/05/2011 16:43	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110900006A	04/01/2011 20:43	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 02:26	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110900006A	03/31/2011 16:45	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110900049A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 08:45	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110880031A	03/30/2011 00:29	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110890005A	03/30/2011 18:27	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/05/2011 06:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110890005A	03/30/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110880031A	03/29/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110895708003	04/07/2011 02:29	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110895708003	04/08/2011 19:16	John P Hook	1
01650	Calcium	SW-846 6010B	1	110895708003	04/07/2011 02:29	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110895708003	04/07/2011 02:29	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110895708003	04/07/2011 02:29	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110895708003	04/07/2011 02:29	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110895708003	04/07/2011 02:29	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110895708003	04/07/2011 02:29	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110895708003	04/07/2011 02:29	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110895708003	04/07/2011 02:29	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110895708003	04/07/2011 02:29	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110895708003	04/07/2011 02:29	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110895708003	04/07/2011 02:29	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110895708003	04/07/2011 02:29	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110891026003A	04/04/2011 13:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110891026003A	04/04/2011 13:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110891026003D	04/04/2011 13:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110891026003A	04/04/2011 13:24	Choon Y Tian	2

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Sample Description: SL-216-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA5A-SB-4.0-5.0

LLI Sample # SW 6241851
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 11:30

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE113-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110891026003A	04/04/2011 13:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110891026003A	04/04/2011 13:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110891026003A	04/04/2011 13:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110891026003A	04/04/2011 13:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110891026003A	04/04/2011 13:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110891026003C	04/04/2011 13:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110891026003A	04/04/2011 13:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110891026003B	04/04/2011 13:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110891026003A	04/04/2011 13:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110891026003A	04/04/2011 13:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110891026003A	04/04/2011 13:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110891026003A	04/04/2011 13:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110895711004	04/01/2011 08:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110895708003	03/31/2011 08:35	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110891026003	03/31/2011 08:50	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110895711004	03/31/2011 10:30	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11102102201A	04/13/2011 19:08	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11102102201A	04/13/2011 19:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11094094201B	04/11/2011 23:45	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11103243201A	04/18/2011 19:09	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11097102201A	04/07/2011 19:13	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11102999201A	04/12/2011 13:25	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11094094201B	04/04/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11097102201A	04/07/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101A	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401A	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-032811 Water
SSFL Area IV Collocated Soil Sampling
TB-032811

LLI Sample # WW 6241852
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 08:00

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB328 SDG#: DE113-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-032811 Water
SSFL Area IV Collocated Soil Sampling
TB-032811

LLI Sample # WW 6241852
LLI Group # 1239325
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 08:00

Submitted: 03/29/2011 09:45
Reported: 04/19/2011 13:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB328 SDG#: DE113-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110883AA	03/29/2011	21:40	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110901AA	03/31/2011	10:18	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110883AA	03/29/2011	21:40	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110901AA	03/31/2011	10:18	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11094A20A	04/04/2011	14:55	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11094A20A	04/04/2011	14:55	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110901AA	Sample number(s): 6241846									
Acetone	6.7	U	6.7	8.0	ug/kg	185	158	32-209	16	30
Benzene	0.10	U	0.10	4.0	ug/kg	103	101	80-120	2	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	102	100	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	124	119	79-124	4	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92	91	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	83	81	70-120	2	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	90	86	32-162	4	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	144	130	46-153	10	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	107	105	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	110	107	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	100	99	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	86	83	69-122	3	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	98	96	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	87	85	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	97	95	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	100	98	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	94	93	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	101	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100	98	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	110	101	22-131	9	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	96	96	58-120	0	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	85	85	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100	98	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101	100	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97	97	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99	98	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	98	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	81	77	20-120	5	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100	98	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	99	98	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	108	104	73-123	4	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102	98	80-120	4	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	101	98	79-120	4	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	99	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102	99	80-120	3	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	85	85	72-123	0	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	99	97	77-120	3	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	89	89	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87	86	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	100	96	80-120	4	30
Freon 113	0.11	U	0.11	4.0	ug/kg	109	103	61-126	6	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	111	105	78-120	6	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98	96	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	132	121	45-155	9	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	97	95	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	106	104	75-120	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	94	96	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	108	106	61-134	2	30
Methylene Chloride	0.55	J	0.24	4.0	ug/kg	108	106	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	109	108	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	94	92	76-120	3	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	88	88	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	110	106	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	95	93	77-120	3	30
Toluene	0.08	U	0.08	4.0	ug/kg	101	97	80-120	4	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	97	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	95	96	68-120	1	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	93	91	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102	100	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	95	80-120	3	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	101	94	58-133	7	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	108	106	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	105	103	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	104	102	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93	89	53-120	4	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98	94	80-120	4	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	95	93	80-120	2	30
Batch number: B110911AA	Sample number(s): 6241847-6241848,6241850-6241851									
Acetone	6.7	U	6.7	8.0	ug/kg	180	170	32-209	6	30
Benzene	0.10	U	0.10	4.0	ug/kg	104	105	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	100	103	79-120	3	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	122	122	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94	95	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	85	84	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	101	101	32-162	0	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	138	132	46-153	4	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	109	108	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	112	111	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	101	103	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	88	90	69-122	3	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	98	98	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	99	100	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	97	96	43-146	1	30
Chloroform	0.12	U	0.12	4.0	ug/kg	101	102	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	97	99	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104	103	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100	100	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	109	106	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	98	95	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	88	88	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100	100	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102	100	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	98	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99	100	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	99	79-120	0	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	81	82	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	102	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	100	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	102	104	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	103	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	101	103	79-120	1	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	102	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	101	101	80-120	1	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	89	91	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100	102	77-120	2	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91	92	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	88	87	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101	100	80-120	0	30
Freon 113	0.11	U	0.11	4.0	ug/kg	108	108	61-126	0	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	107	107	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101	97	57-120	3	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	127	119	45-155	6	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101	100	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	109	108	75-120	1	30
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	98	99	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	112	109	61-134	3	30
Methylene Chloride	0.83	J	0.24	4.0	ug/kg	106	107	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	110	111	77-120	0	30
Styrene	0.10	U	0.10	4.0	ug/kg	94	95	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	90	91	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	108	108	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	97	95	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	100	100	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	97	97	64-120	0	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	97	95	68-120	2	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	83	84	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102	100	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99	99	80-120	0	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	99	99	58-133	0	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	108	107	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	107	106	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	106	107	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	94	96	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99	98	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	97	97	80-120	0	30
Batch number: E110891AA	Sample number(s): 6241846-6241848,6241850-6241851									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	106	110	70-130	3	30
Batch number: E110901AA	Sample number(s): 6241852									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	112	116	80-123	3	30
Batch number: Y110883AA	Sample number(s): 6241852									
Acetone	6	U	6.	20	ug/l	104	109	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	101	102	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	104	105	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	109	113	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	104	105	80-120	1	30
Bromoform	1	U	1.	5	ug/l	87	87	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	120	123*	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	100	102	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	98	100	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	100	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	96	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	110	112	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	100	102	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	111	114	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	78	84	56-129	8	30
Chloroform	0.8	U	0.8	5	ug/l	109	111	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	81	85	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	102	105	80-120	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorotoluene	1	U	1.	5	ug/l	99	101	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	75	76	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	96	96	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	95	96	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	103	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	108	110	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	100	101	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	104	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	101	102	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	96	96	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	103	105	79-120	1	30
1,2-Dichloroethane	1	U	1.	5	ug/l	121	124	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	108	111	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	104	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	102	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	98	99	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	103	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	104	105	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	107	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	93	95	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	95	97	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	101	79-120	2	30
Freon 113	2	U	2.	10	ug/l	117	121	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	112	114	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	97	101	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	93	97	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	98	100	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	102	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	104	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	98	100	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	108	108	80-120	0	30
n-Propylbenzene	1	U	1.	5	ug/l	101	103	80-120	2	30
Styrene	1	U	1.	5	ug/l	94	96	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	102	103	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	95	97	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	105	113	80-121	8	30
Toluene	0.7	U	0.7	5	ug/l	99	99	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	98	102	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	99	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	112	113	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	101	101	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	104	106	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	137*	131*	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	105	108	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	103	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	101	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	95	97	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	100	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	95	98	80-120	3	30
Batch number: 11091SLC026	Sample number(s): 6241846-6241851									
Aniline	170 U		170.	500	ug/kg	68		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	47		15-121		
Benzoic acid	170 U		170.	500	ug/kg	72		62-113		
Benzyl alcohol	170		170.	500	ug/kg	81		68-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		79-117		
Di-n-butylphthalate	17	U	17.	170	ug/kg	88		79-112		
Carbazole	17	U	17.	170	ug/kg	90		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	80		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	51		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	79		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	78		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	64*		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	90		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	89		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	63		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	80		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	90		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	87		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	71		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	85		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	86		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	77		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	72		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Isophorone	17	U	17.	170	ug/kg	73		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	84		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	88		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	87		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	61		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	70*		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	92		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	65		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	66		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	76		51-117		
Phenol	17	U	17.	170	ug/kg	80		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	89		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	88		78-111		
Batch number: 11092SLB026	Sample number(s): 6241846-6241847,6241851									
N-Nitrosodimethylamine	21.5	J	16.7	33.3	ng/kg	76		70-130		
Batch number: 11094SLC026	Sample number(s): 6241846-6241851									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Anthracene	0.33	U	0.33	1.7	ug/kg	90		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	71		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	77		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	88		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	80		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	90		65-131		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	88		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	92		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	104		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	91		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	87		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	88		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	91		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	89		56-121		
Batch number: 11091A34A	Sample number(s): 6241846-6241847,6241851									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68		67-119		
Batch number: 11094A20A	Sample number(s): 6241852									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 110900049A	Sample number(s): 6241846-6241847,6241851									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	95	107	54-134	13	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	94	107	54-134	13	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	106		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	101		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
HMX	100 U		100.	300	ug/kg	97		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	99		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	89		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	106		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	105		80-120		
PETN	800 U		800.	2,400	ug/kg	110		80-120		
RDX	50	U	50.	120	ug/kg	96		75-131		
Tetryl	61	U	61.	120	ug/kg	89		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	107		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 110900006A	Sample number(s): 6241846-6241847,6241851									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	93		80-126		
Batch number: 110900028A	Sample number(s): 6241848-6241850									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		70-130		
Batch number: 110940035A	Sample number(s): 6241846-6241851									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	77	83	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	105		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110900035A	Sample number(s): 6241846-6241847,6241851									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	95		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	85		66-113		
Batch number: 110880031A	Sample number(s): 6241846-6241847,6241851									
Ethanol	100 U		100.	500	ug/kg	94		71-129		
Isopropanol	100 U		100.	500	ug/kg	97		75-125		
Methanol	100 U		100.	500	ug/kg	92		68-129		
Batch number: 110890005A	Sample number(s): 6241846-6241847,6241851									
Diethylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	112		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Batch number: 110920003A	Sample number(s): 6241846-6241847,6241851									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 110891026003A	Sample number(s): 6241846-6241851									
Antimony	0.0583	U	0.0583	0.194	mg/kg	60		27-181		
Arsenic	0.0777	U	0.0777	0.388	mg/kg	104		83-113		
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	99		86-111		
Cadmium	0.0388	U	0.0388	0.0971	mg/kg	101		82-118		
Chromium	0.117	U	0.117	0.388	mg/kg	110		80-120		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	93		82-118		
Copper	0.218	J	0.0641	0.388	mg/kg	91		83-110		
Lead	0.0131	J	0.0101	0.194	mg/kg	104		83-110		
Nickel	0.0971	U	0.0971	0.388	mg/kg	98		81-110		
Silver	0.0117	U	0.0117	0.0971	mg/kg	102		81-111		
Thallium	0.0291	U	0.0291	0.0971	mg/kg	103		83-110		
Vanadium	0.0214	U	0.0214	0.0971	mg/kg	117		87-117		
Zinc	0.544	U	0.544	2.91	mg/kg	101		81-112		
Batch number: 110891026003B	Sample number(s): 6241846-6241851									
Selenium	0.0388	U	0.0388	0.388	mg/kg	105		83-111		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110891026003C	Sample number(s): 6241846-6241851									
Molybdenum	0.0485	U	0.0485	0.0971	mg/kg	105		78-122		
Batch number: 110891026003D	Sample number(s): 6241846-6241851									
Barium	0.105	U	0.105	0.388	mg/kg	96		81-980		
Batch number: 110895708003	Sample number(s): 6241846-6241851									
Aluminum	5.03	U	5.03	20.0	mg/kg	96		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	97		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	100		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	86		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	99		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	102		89-112		
Phosphorus	1.48	J	0.560	10.0	mg/kg	102		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	100		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	99		86-110		
Tin	2.21	J	1.00	10.0	mg/kg	103		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	88		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	98		80-120		
Batch number: 110895711004	Sample number(s): 6241846-6241851									
Mercury	0.0028	U	0.0028	0.0971	mg/kg	94		88-123		
Batch number: 11094094201B	Sample number(s): 6241846-6241851									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	90		85-115		
Batch number: 11097102201A	Sample number(s): 6241846-6241847,6241851									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	101		80-120		
Batch number: 11102102201A	Sample number(s): 6241846-6241848,6241850-6241851									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11103243201A	Sample number(s): 6241846-6241851									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11105105201B	Sample number(s): 6241849									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
Batch number: 11094039401A	Sample number(s): 6241846-6241851									
18a pH by 9045C						100		95-105		
Batch number: 11094182101A	Sample number(s): 6241846-6241851									
32a OR Potential						101		98-102		
Batch number: 11096162401A	Sample number(s): 6241848-6241850									
Moisture Content by 160.3						100		80-120		
Batch number: 11101162401A	Sample number(s): 6241846-6241847									
Moisture Content by 160.3						100		80-120		
Batch number: 11102162401A	Sample number(s): 6241851									
Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11091SLC026	Sample number(s): 6241846-6241851 UNSPK: P239176								
Aniline	63	66	35-95	7	30				
Benzidine	43	43	35-141	0	30				
Benzoic acid	72	67	10-173	6	30				
Benzyl alcohol	82	82	67-115	2	30				
4-Bromophenyl-phenylether	96	97	67-129	2	30				
Di-n-butylphthalate	87	88	67-123	2	30				
Carbazole	86	88	64-120	3	30				
4-Chloro-3-methylphenol	78	76	76-110	1	30				
4-Chloroaniline	36	47	23-95	28	30				
bis(2-Chloroethoxy)methane	78	79	75-104	2	30				
bis(2-Chloroethyl)ether	79	79	60-116	2	30				
bis(2-Chloroisopropyl)ether	64	64	55-142	1	30				
2-Chloronaphthalene	94	70	50-141	27	30				
2-Chlorophenol	90	91	73-121	2	30				
4-Chlorophenyl-phenylether	89	90	80-109	3	30				
Dibenzofuran	89	89	71-112	1	30				
1,2-Dichlorobenzene	87	86	66-108	0	30				
1,3-Dichlorobenzene	83	84	63-109	2	30				
1,4-Dichlorobenzene	84	86	70-100	4	30				
3,3'-Dichlorobenzidine	63	68	16-119	10	30				
2,4-Dichlorophenol	93	93	78-117	1	30				
2,4-Dimethylphenol	80	79	78-110	0	30				
3,5-Dimethylphenol	86	87	70-130	2	30				
4,6-Dinitro-2-methylphenol	81	76	24-116	4	30				
2,4-Dinitrophenol	62	57	20-143	8	30				
2,4-Dinitrotoluene	82	84	73-113	4	30				
2,6-Dinitrotoluene	85	86	69-123	3	30				
1,2-Diphenylhydrazine	78	79	71-129	3	30				
Hexachlorobenzene	93	95	77-114	3	30				
Hexachlorobutadiene	88	89	62-120	2	30				
Hexachlorocyclopentadiene	64	67	10-153	6	30				
Hexachloroethane	74	77	57-109	4	30				
Isophorone	73	72*	73-102	1	30				
2-Methylphenol	83	83	75-111	2	30				
4-Methylphenol	85	86	71-111	3	30				
2-Nitroaniline	86	87	67-125	2	30				
3-Nitroaniline	81	80	59-122	0	30				
4-Nitroaniline	59	60	52-112	4	30				
Nitrobenzene	70*	70*	72-106	2	30				
2-Nitrophenol	92	92	74-115	1	30				
4-Nitrophenol	64	58	54-113	8	30				
N-Nitroso-di-n-propylamine	66	67	60-116	4	30				
N-Nitrosodiphenylamine	99	100	86-145	2	30				
Pentachlorophenol	81	80	28-127	1	30				
Phenol	78	79	58-126	3	30				
1,2,4-Trichlorobenzene	93	91	72-115	1	30				
2,4,5-Trichlorophenol	89	90	78-109	3	30				
2,4,6-Trichlorophenol	92	91	77-115	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11092SLB026	Sample number(s): 6241846-6241847,6241851 UNSPK: P239176								
N-Nitrosodimethylamine	132*	140*	70-130	6	30				
Batch number: 11094SLC026	Sample number(s): 6241846-6241851 UNSPK: P244296								
Acenaphthene	94	96	63-105	3	30				
Acenaphthylene	95	96	67-114	2	30				
Anthracene	99	98	60-122	0	30				
Benzo(a)anthracene	100	96	59-128	3	30				
Benzo(a)pyrene	79	76	45-138	3	30				
Benzo(b)fluoranthene	78	76	43-155	1	30				
Benzo(g,h,i)perylene	90	89	33-141	0	30				
Benzo(k)fluoranthene	81	78	42-144	2	30				
Butylbenzylphthalate	105	102	57-173	2	30				
Chrysene	101	101	48-134	1	30				
Dibenz(a,h)anthracene	89	89	22-133	1	30				
Diethylphthalate	100	97	70-136	2	30				
Dimethylphthalate	105	106	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	127	117	39-167	7	30				
Fluoranthene	103	101	26-166	0	30				
Fluorene	99	99	66-122	2	30				
Indeno(1,2,3-cd)pyrene	90	90	21-143	1	30				
1-Methylnaphthalene	94	95	72-123	2	30				
2-Methylnaphthalene	88	88	64-103	1	30				
Naphthalene	94	94	61-102	2	30				
N-Nitrosodimethylamine	93	93	48-113	1	30				
Di-n-octylphthalate	106	92	40-192	13	30				
Phenanthrene	97	95	12-165	0	30				
Pyrene	89	85	15-153	3	30				
Batch number: 11091A34A	Sample number(s): 6241846-6241847,6241851 UNSPK: P244296								
9a TPH by EPA 8015B Gas C5-C12	70	79	39-118	2	30				
Batch number: 110900049A	Sample number(s): 6241846-6241847,6241851 UNSPK: P239176								
4-Amino-2,6-Dinitrotoluene	106	103	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	103	103	80-137	0	50				
1,3-Dinitrobenzene	104	101	38-166	2	50				
2,4-Dinitrotoluene	99	97	80-131	1	50				
2,6-Dinitrotoluene	104	103	80-127	1	50				
HMX	96	94	63-128	2	50				
Nitrobenzene	92	90	80-125	2	50				
Nitroglycerin	95	93	80-120	1	50				
2-Nitrotoluene	103	102	80-122	1	50				
3-Nitrotoluene	104	102	72-119	2	50				
4-Nitrotoluene	102	101	80-125	1	50				
PETN	112	110	80-121	2	50				
RDX	99	99	75-129	1	50				
Tetryl	81	87	55-174	8	50				
1,3,5-Trinitrobenzene	98	100	82-126	2	50				
2,4,6-Trinitrotoluene	105	104	82-130	1	50				
Batch number: 110900006A	Sample number(s): 6241846-6241847,6241851 UNSPK: 6241846								
25a Formaldehyde 8315A	92	93	80-120	1	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110900028A	Sample number(s): 6241848-6241850 UNSPK: P235704								
6a Perchlorate EPA 6850	106	103	80-120	3	20				
Batch number: 110940035A	Sample number(s): 6241846-6241851 UNSPK: P244296								
PCB-1016	90	90	29-146	0	50				
PCB-1260	102	98	39-149	3	50				
Batch number: 110900035A	Sample number(s): 6241846-6241847,6241851 UNSPK: P239176								
EFH (C12-C14)	100	92	49-123	9	20				
EFH (C15-C20)	234*	114	49-123	69*	20				
EFH (C21-C30)	1671*	-112*	49-123	167*	20				
EFH (C30 - C40)	2421 (2)	-308 (2)	49-123	168*	20				
EFH (C8-C11)	79	67	49-123	10	20				
Batch number: 110880031A	Sample number(s): 6241846-6241847,6241851 UNSPK: P239176								
Ethanol	77	80	48-130	4	20				
Isopropanol	79	82	12-149	4	20				
Methanol	78	81	43-138	4	20				
Batch number: 110890005A	Sample number(s): 6241846-6241847,6241851 UNSPK: 6241846								
Diethylene glycol	46*	75	59-109	47*	20				
Ethylene glycol	74	87	63-107	16	20				
Propylene glycol	78	87	63-107	12	20				
Batch number: 110920003A	Sample number(s): 6241846-6241847,6241851 UNSPK: P239176								
m-Terphenyl	72*	80	75-125	10	20				
o-Terphenyl	88	97	75-125	10	20				
p-Terphenyl	71*	77	75-125	9	20				
Batch number: 110891026003A	Sample number(s): 6241846-6241851 UNSPK: P242770 BKG: P242770								
Antimony	197*	252*	75-125	15	20	1.50	2.71	57*	20
Arsenic	251 (2)	414 (2)	75-125	18	20	10.4	11.5	11	20
Beryllium	137*	173*	75-125	17	20	0.370	0.424	14 (1)	20
Cadmium	-555 (2)	-83 (2)	75-125	38*	20	15.7	12.4	23*	20
Chromium	-4689 (2)	-4474 (2)	75-125	24*	20	582	81.2	151*	20
Cobalt	88	120	75-125	22*	20	16.4	12.1	30*	20
Copper	408 (2)	321 (2)	75-125	1	20	587	3,030	135*	20
Lead	-72455 (2)	-68079 (2)	75-125	51*	20	2,430	416	141*	20
Nickel	-2148 (2)	-2361 (2)	75-125	7	20	452	169	91*	20
Silver	168*	162*	75-125	5	20	3.74	6.11	48*	20
Thallium	146*	132*	75-125	12	20	0.144 U	0.150 U	0 (1)	20
Vanadium	134*	201*	75-125	14	20	28.8	26.7	8	20
Zinc	-188 (2)	382 (2)	75-125	11	20	517	656	24*	20
Batch number: 110891026003B	Sample number(s): 6241846-6241851 UNSPK: P242770 BKG: P242770								
Selenium	95	109	75-125	11	20	0.275 J	0.266 J	3 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 110891026003C	Sample number(s): 6241846-6241851 UNSPK: P242770 BKG: P242770										
Molybdenum	160*	373*	75-125	48*	20	16.3		18.8		14	20
Batch number: 110891026003D	Sample number(s): 6241846-6241851 UNSPK: P242770 BKG: P242770										
Barium	558 (2)	761 (2)	75-125	13	20	75.9		99.8		27*	20
Batch number: 110895708003	Sample number(s): 6241846-6241851 UNSPK: P242770 BKG: P242770										
Aluminum	1238 (2)	890 (2)	75-125	7	20	8,200		9,610		16	20
Boron	100	98	84-115	1	20	23.3		24.3		5 (1)	20
Calcium	-188 (2)	365 (2)	75-125	4	20	51,400		52,000		1	20
Iron	11127 (2)	10148 (2)	75-125	2	20	36,600		40,400		10	20
Lithium	106	107	82-114	1	20	16.4		18.6		13	20
Magnesium	1343 (2)	572 (2)	75-125	20	20	5,830		6,850		16	20
Manganese	150 (2)	145 (2)	75-125	0	20	483		492		2	20
Phosphorus	-57 (2)	-22 (2)	75-125	7	20	569		401		34*	20
Potassium	116	125	75-125	3	20	2,030		2,280		12	20
Sodium	102	107	75-125	3	20	304		292		4 (1)	20
Strontium	87	84	75-115	2	20	82.7		67.9		20	20
Tin	91	97	80-110	6	20	35.9		40.3		11 (1)	20
Titanium	126 (2)	262 (2)	75-125	16	20	677		767		12	20
Zirconium	93	98	75-125	5	20	2.94	J	5.19		55* (1)	20
Batch number: 110895711004	Sample number(s): 6241846-6241851 UNSPK: P242770 BKG: P242770										
Mercury	39*	21*	65-135	8	20	0.317		0.212		40* (1)	20
Batch number: 11094094201B	Sample number(s): 6241846-6241851 UNSPK: P240608 BKG: P240608										
7a Perchlorate EPA 314.0	107		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11097102201A	Sample number(s): 6241846-6241847,6241851 UNSPK: P240607 BKG: P240607										
17a Cyanide by 9012B	103		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11102102201A	Sample number(s): 6241846-6241848,6241850-6241851 UNSPK: 6241846 BKG: 6241846										
11a Anions by 300.0 - Fluoride	57*		80-120			1.8		1.3		32* (1)	20
11a Anions by 300.0 - Nitrate	109		80-120			1.1	J	1.1	J	4 (1)	20
Batch number: 11103243201A	Sample number(s): 6241846-6241851 UNSPK: P244296 BKG: P244296										
3a Cr VI by EPA 7199	92		75-125			0.20	U	0.42	J	200* (1)	20
Batch number: 11105105201B	Sample number(s): 6241849 UNSPK: P250041 BKG: P250041										
11a Anions by 300.0 - Fluoride	67*		80-120			2.2		2.3		3 (1)	20
Batch number: 11094039401A	Sample number(s): 6241846-6241851 BKG: P244291										
18a pH by 9045C						8.11		8.13		0	1
Batch number: 11094182101A	Sample number(s): 6241846-6241851 BKG: P244291										
32a OR Potential						393		403		3	6
Batch number: 11096162401A	Sample number(s): 6241848-6241850 BKG: P240605										
Moisture Content by 160.3						15.5		15.0		3	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11101162401A Sample number(s): 6241846-6241847 BKG: P239176									
Moisture Content by 160.3						12.0	11.0	9	20
Batch number: 11102162401A Sample number(s): 6241851 BKG: P242769									
Moisture Content by 160.3						13.3	13.7	3	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110901AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6241846	100	103	100	93
Blank	98	102	99	93
LCS	99	100	102	100
LCSD	99	101	102	99
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110911AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6241847	99	106	99	95
6241848	97	98	100	92
6241850	98	100	99	93
6241851	96	95	101	91
Blank	99	99	99	93
LCS	99	104	102	98
LCSD	99	104	101	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110891AA

	Toluene-d8
6241846	96
6241847	97
6241848	97
6241850	97
6241851	97
Blank	97
LCS	97
LCSD	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Surrogate Quality Control

Limits: 70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110901AA

	Toluene-d8
6241852	98
Blank	99
LCS	99
LCSD	99
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110883AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6241852	109	103	99	94
Blank	106	100	98	93
LCS	107	105	99	99
LCSD	106	105	99	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11091SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6241846	71	76	84	62	83	89
6241847	77	83	85	67	90	93
6241848	80	85	86	67	92	88
6241849	80	86	83	70	91	91
6241850	81	86	83	69	90	93
6241851	78	83	81	68	89	94
Blank	81	87	89	71	91	95
LCS	80	85	89	69	88	93
MS	79	85	85	69	89	96
MSD	81	87	86	68	90	97
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11092SLB026

	N-Nitrosodimethylamine-d6
6241846	109
6241847	101
6241851	123
Blank	94
LCS	96
MS	94
MSD	102
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM

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Quality Control Summary

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Reported: 04/19/11 at 01:36 PM

Surrogate Quality Control

Batch number: 11094SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6241846	91	89	86
6241847	96	92	86
6241848	94	90	80
6241849	71	72	63
6241850	94	95	87
6241851	90	67	84
Blank	109	107	113
LCS	97	92	88
MS	94	96	87
MSD	93	94	81
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11091A34A

	Trifluorotoluene-F
6241846	82
6241847	81
6241851	74
Blank	80
LCS	85
MS	79
MSD	85
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11094A20A

	Trifluorotoluene-F
6241852	77
Blank	75
LCS	112
LCSD	115
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110900006A

	Butyraldehyde
6241846	101
6241847	100
6241851	99
Blank	100
LCS	98
MS	92
MSD	101
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 110900049A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Surrogate Quality Control

	2-Nitro-m-xylene
6241846	109
6241847	107
6241851	112
Blank	108
LCS	285*
LCSD	97
MS	111
MSD	108
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110940035A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6241846	94	100
6241847	98	97
6241848	94	96
6241849	105	114
6241850	94	114
6241851	92	99
Blank	86	101
LCS	92	109
LCSD	93	110
MS	90	102
MSD	83	103
Limits:	53-139	45-120

Analysis Name: 19a Alcohols by 8015B
Batch number: 110880031A

	Acetone
6241846	81
6241847	83
6241851	76
Blank	95
LCS	95
MS	78
MSD	79
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 110890005A

	Tetramethylene glycol
6241846	46
6241847	69
6241851	41
Blank	104
LCS	101
MS	87
MSD	82

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239325
Reported: 04/19/11 at 01:36 PM

Surrogate Quality Control

Limits: 29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110900035A

	Chlorobenzene	Orthoterphenyl
6241846	74	84
6241847	86	93
6241851	80	90
Blank	90	99
LCS	86	97
MS	90	92
MSD	85	94
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110920003A

	n-Triacontane-d62
6241846	69
6241847	138
6241851	71
Blank	69
LCS	68
MS	72
MSD	88
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

B013/1239325/6241846-52

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 18 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Amended COC
SL-209-SA5A-SB-4.5	03.28.11	1543	SOIL	NONE	5-Encores										X	X	X										
SL-209-SA5A-SB-4.0-5.0	03.28.11	1548	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-211-SA5A-SB-3.0	03.28.11	0945	SOIL	NONE	5-Encores										X	X	X										
SL-211-SA5A-SB-2.5-3.5	03.28.11	0950	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-214-SA5A-SB-4.5	03.28.11	1158	SOIL	NONE	4-Encores										X	X											
SL-214-SA5A-SB-4.0-5.0	03.28.11	1203	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-214-SA5A-SB-0.5-0.5	03.28.11	1205	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-215-SA5A-SB-4.5	03.28.11	1447	SOIL	NONE	4-Encores										X	X											
SL-215-SA5A-SB-4.0-5.0	03.28.11	1452	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-216-SA5A-SB-4.5	03.28.11	1125	SOIL	NONE	5-Encores										X	X	X										
SL-216-SA5A-SB-4.0-5.0	03.28.11	1130	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-032811	03.28.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8695 1432 3806

Laboratory:

Lancaster Laboratories, Inc.

Natalie R. Luciano

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Tuesday, March 29, 2011 11:53 AM
To: Natalie R. Luciano
Subject: RE: SSFL-Monday 032811 COC

Attachments: COC_subsurface_samples_03_28_11PH.xls(1).xlsx

COC_subsurface_samples_03_28_1...

Please ignore the last email! This one has the corrected COC for 03282011.

Thanks!

From: Natalie R. Luciano [NLuciano@lancasterlabs.com]
Sent: Tuesday, March 29, 2011 8:33 AM
To: Hartman, Pamela; Bloisa, Peggy
Cc: Burgesser, Todd; Zakowski, Cherie
Subject: RE: SSFL-Monday 032811 COC

Pam,

Thank you for sending the COC. For the first sample listed, we received
5 encores and 4 jars, but the COC lists 4 Encores and 2 16 oz jars.

Please let me know if I should update the COC or if you will be sending a revised copy.

Thank you,
Natalie
Environmental Client Services

Please consider the environment before printing this e-mail.

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Tuesday, March 29, 2011 10:25 AM
To: Burgesser, Todd; Bloisa, Peggy; 'Laura Rainey'; Natalie R. Luciano; SA Env Entry; Zakowski, Cherie
Subject: SSFL-Monday 032811 COC

Hello Everyone,

I will be taking over for Ann Marie at FTL when Peggy is not onsite.
Sorry I did not send yesterday's COC at the end of the day!

Thank you

Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is

addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments. Thank you.

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13013 1239325 624184-52

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals: EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TRH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: AMCnles																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-209-SA5A-SB-4.5	03.28.11	1543	SOIL	NONE	4-Encores										X	X	X										
SL-209-SA5A-SB-4.0-5.0	03.28.11	1548	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-211-SA5A-SB-3.0	03.28.11	0945	SOIL	NONE	5-Encores										X	X	X										
SL-211-SA5A-SB-2.5-3.5	03.28.11	0950	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-214-SA5A-SB-4.5	03.28.11	1158	SOIL	NONE	4-Encores										X	X											
SL-214-SA5A-SB-4.0-5.0	03.28.11	1203	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-214-SA5A-SB-8.5-9.5	03.28.11	1205	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-215-SA5A-SB-4.5	03.28.11	1447	SOIL	NONE	4-Encores										X	X											
SL-215-SA5A-SB-4.0-5.0	03.28.11	1452	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-216-SA5A-SB-4.5	03.28.11	1125	SOIL	NONE	5-Encores										X	X	X										
SL-216-SA5A-SB-4.0-5.0	03.28.11	1130	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-032811	03.28.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 03/28/11 1630		Received for Laboratory by: (Signature)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 3/28/11 1645		Airbill No.(s) 8695 1432 3806																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/29/2011
Group Number: 1239327
SDG: DX065
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-209-SA5A-SB-4.0-5.0 Soil	6241897
SL-211-SA5A-SB-2.5-3.5 Soil	6241898
SL-214-SA5A-SB-4.0-5.0 Soil	6241899
SL-214-SA5A-SB-8.5-9.5 Soil	6241900
SL-215-SA5A-SB-4.0-5.0 Soil	6241901
SL-216-SA5A-SB-4.0-5.0 Soil	6241902

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-209-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5A-SB-4.0-5.0

LLI Sample # SW 6241897
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 15:48

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD209 SDG#: DX065-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-209-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5A-SB-4.0-5.0

LLI Sample # SW 6241897
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 15:48

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD209 SDG#: DX065-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0948 JQ	0.0412	1.11	1
11031	12378-PeCDD	40321-76-4	0.121 JBQ	0.0400	5.57	1
11031	123478-HxCDD	39227-28-6	0.148 JB	0.0296	5.57	1
11031	123678-HxCDD	57653-85-7	0.138 JBQ	0.0290	5.57	1
11031	123789-HxCDD	19408-74-3	0.210 JBQ	0.0283	5.57	1
11031	1234678-HpCDD	35822-46-9	0.302 JB	0.0276	5.57	1
11031	OCDD	3268-87-9	0.857 JB	0.0246	11.1	1
11031	2378-TCDF	51207-31-9	0.0572 JBQ	0.0368	1.11	1
11031	12378-PeCDF	57117-41-6	0.172 JBQ	0.0194	5.57	1
11031	23478-PeCDF	57117-31-4	0.187 JBQ	0.0189	5.57	1
11031	123478-HxCDF	70648-26-9	0.216 JBQ	0.0320	5.57	1
11031	123678-HxCDF	57117-44-9	0.167 JBQ	0.0230	5.57	1
11031	123789-HxCDF	72918-21-9	0.166 JB	0.0200	5.57	1
11031	234678-HxCDF	60851-34-5	0.106 JBQ	0.0191	5.57	1
11031	1234678-HpCDF	67562-39-4	0.145 JB	0.0143	5.57	1
11031	1234789-HpCDF	55673-89-7	0.142 JBQ	0.0153	5.57	1
11031	OCDF	39001-02-0	0.206 JBQ	0.0283	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	82	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-209-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5A-SB-4.0-5.0

LLI Sample # SW 6241897
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 15:48

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD209 SDG#: DX065-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-209-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5A-SB-4.0-5.0

LLI Sample # SW 6241897
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 15:48

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD209 SDG#: DX065-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 02:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-211-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SB-2.5-3.5

LLI Sample # SW 6241898
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 09:50

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD211 SDG#: DX065-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SB-2.5-3.5

LLI Sample # SW 6241898
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 09:50

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD211 SDG#: DX065-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0708	JQ	0.0599	1.08	1
11031	12378-PeCDD	40321-76-4	0.177	JBQ	0.0551	5.41	1
11031	123478-HxCDD	39227-28-6	0.213	JB	0.0507	5.41	1
11031	123678-HxCDD	57653-85-7	0.244	JBQ	0.0510	5.41	1
11031	123789-HxCDD	19408-74-3	0.200	JB	0.0508	5.41	1
11031	1234678-HpCDD	35822-46-9	0.288	JBQ	0.0481	5.41	1
11031	OCDD	3268-87-9	0.903	JBQ	0.0533	10.8	1
11031	2378-TCDF	51207-31-9	0.0921	JB	0.0552	1.08	1
11031	12378-PeCDF	57117-41-6	0.266	JBQ	0.0284	5.41	1
11031	23478-PeCDF	57117-31-4	0.318	JB	0.0287	5.41	1
11031	123478-HxCDF	70648-26-9	0.282	JB	0.0538	5.41	1
11031	123678-HxCDF	57117-44-9	0.249	JBQ	0.0377	5.41	1
11031	123789-HxCDF	72918-21-9	0.383	JB	0.0420	5.41	1
11031	234678-HxCDF	60851-34-5	0.186	JBQ	0.0324	5.41	1
11031	1234678-HpCDF	67562-39-4	0.214	JB	0.0290	5.41	1
11031	1234789-HpCDF	55673-89-7	0.237	JB	0.0322	5.41	1
11031	OCDF	39001-02-0	0.358	JB	0.0643	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-211-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SB-2.5-3.5

LLI Sample # SW 6241898
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 09:50

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD211 SDG#: DX065-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-211-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5A-SB-2.5-3.5

LLI Sample # SW 6241898
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 09:50

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD211 SDG#: DX065-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 03:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401A	04/11/2011 21:23	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-214-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-4.0-5.0

LLI Sample # SW 6241899
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:03

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2144 SDG#: DX065-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-214-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-4.0-5.0

LLI Sample # SW 6241899
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:03

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2144 SDG#: DX065-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0660	J	0.0304	1.09	1
11031	12378-PeCDD	40321-76-4	0.158	JBQ	0.0301	5.43	1
11031	123478-HxCDD	39227-28-6	0.113	JBQ	0.0264	5.43	1
11031	123678-HxCDD	57653-85-7	0.307	JB	0.0252	5.43	1
11031	123789-HxCDD	19408-74-3	0.367	JBQ	0.0224	5.43	1
11031	1234678-HpCDD	35822-46-9	0.319	JB	0.0221	5.43	1
11031	OCDD	3268-87-9	1.28	JB	0.0209	10.9	1
11031	2378-TCDF	51207-31-9	0.0279	JB	0.0270	1.09	1
11031	12378-PeCDF	57117-41-6	0.138	JBQ	0.0130	5.43	1
11031	23478-PeCDF	57117-31-4	0.121	JBQ	0.0136	5.43	1
11031	123478-HxCDF	70648-26-9	0.168	JBQ	0.0276	5.43	1
11031	123678-HxCDF	57117-44-9	0.155	JBQ	0.0193	5.43	1
11031	123789-HxCDF	72918-21-9	0.311	JB	0.0167	5.43	1
11031	234678-HxCDF	60851-34-5	0.121	JBQ	0.0142	5.43	1
11031	1234678-HpCDF	67562-39-4	0.182	JB	0.0130	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0689	JB	0.0132	5.43	1
11031	OCDF	39001-02-0	0.294	JBQ	0.0263	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-214-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-4.0-5.0

LLI Sample # SW 6241899
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:03

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2144 SDG#: DX065-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-214-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-4.0-5.0

LLI Sample # SW 6241899
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:03

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2144 SDG#: DX065-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 04:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-214-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-8.5-9.5

LLI Sample # SW 6241900
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:05

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2148 SDG#: DX065-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-214-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-8.5-9.5

LLI Sample # SW 6241900
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:05

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2148 SDG#: DX065-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0272 JQ	0.0252	1.12	1
11031	12378-PeCDD	40321-76-4	0.109 JBQ	0.0252	5.58	1
11031	123478-HxCDD	39227-28-6	0.0674 JBQ	0.0233	5.58	1
11031	123678-HxCDD	57653-85-7	0.0682 JB	0.0227	5.58	1
11031	123789-HxCDD	19408-74-3	0.113 JB	0.0213	5.58	1
11031	1234678-HpCDD	35822-46-9	0.172 JBQ	0.0215	5.58	1
11031	OCDD	3268-87-9	0.458 JB	0.0214	11.2	1
11031	2378-TCDF	51207-31-9	0.0252 U	0.0252	1.12	1
11031	12378-PeCDF	57117-41-6	0.131 JB	0.0131	5.58	1
11031	23478-PeCDF	57117-31-4	0.122 JB	0.0129	5.58	1
11031	123478-HxCDF	70648-26-9	0.196 JBQ	0.0262	5.58	1
11031	123678-HxCDF	57117-44-9	0.114 JBQ	0.0174	5.58	1
11031	123789-HxCDF	72918-21-9	0.0946 JBQ	0.0161	5.58	1
11031	234678-HxCDF	60851-34-5	0.0848 JB	0.0139	5.58	1
11031	1234678-HpCDF	67562-39-4	0.137 JBQ	0.0117	5.58	1
11031	1234789-HpCDF	55673-89-7	0.0948 JBQ	0.0135	5.58	1
11031	OCDF	39001-02-0	0.176 JB	0.0253	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-214-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-8.5-9.5

LLI Sample # SW 6241900
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:05

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2148 SDG#: DX065-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-214-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5A-SB-8.5-9.5

LLI Sample # SW 6241900
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 12:05

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2148 SDG#: DX065-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 05:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-215-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SB-4.0-5.0

LLI Sample # SW 6241901
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 14:52

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2154 SDG#: DX065-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-215-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SB-4.0-5.0

LLI Sample # SW 6241901
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 14:52

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2154 SDG#: DX065-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0358	JQ	0.0331	1.08	1
11031	12378-PeCDD	40321-76-4	0.181	JB	0.0355	5.42	1
11031	123478-HxCDD	39227-28-6	0.140	JB	0.0336	5.42	1
11031	123678-HxCDD	57653-85-7	0.510	JB	0.0337	5.42	1
11031	123789-HxCDD	19408-74-3	0.728	JB	0.0319	5.42	1
11031	1234678-HpCDD	35822-46-9	1.53	JBQ	0.0314	5.42	1
11031	OCDD	3268-87-9	18.8	B	0.0352	10.8	1
11031	2378-TCDF	51207-31-9	0.0821	JBQ	0.0556	1.08	1
11031	12378-PeCDF	57117-41-6	0.229	JBQ	0.0222	5.42	1
11031	23478-PeCDF	57117-31-4	0.350	JBQ	0.0225	5.42	1
11031	123478-HxCDF	70648-26-9	0.378	JB	0.0394	5.42	1
11031	123678-HxCDF	57117-44-9	0.180	JB	0.0275	5.42	1
11031	123789-HxCDF	72918-21-9	0.431	JB	0.0232	5.42	1
11031	234678-HxCDF	60851-34-5	0.151	JBQ	0.0228	5.42	1
11031	1234678-HpCDF	67562-39-4	0.479	JBQ	0.0160	5.42	1
11031	1234789-HpCDF	55673-89-7	0.126	JBQ	0.0183	5.42	1
11031	OCDF	39001-02-0	0.729	JB	0.0326	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-215-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SB-4.0-5.0

LLI Sample # SW 6241901
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 14:52

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2154 SDG#: DX065-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-215-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5A-SB-4.0-5.0

LLI Sample # SW 6241901
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 14:52

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2154 SDG#: DX065-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 06:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-216-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-216-SA5A-SB-4.0-5.0

LLI Sample # SW 6241902
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 11:30

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD216 SDG#: DX065-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-216-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-216-SA5A-SB-4.0-5.0

LLI Sample # SW 6241902
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 11:30

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD216 SDG#: DX065-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0450	JQ	0.0332	1.12	1
11031	12378-PeCDD	40321-76-4	0.145	JBQ	0.0358	5.61	1
11031	123478-HxCDD	39227-28-6	0.130	JB	0.0258	5.61	1
11031	123678-HxCDD	57653-85-7	0.324	JB	0.0277	5.61	1
11031	123789-HxCDD	19408-74-3	0.362	JB	0.0247	5.61	1
11031	1234678-HpCDD	35822-46-9	0.214	JB	0.0240	5.61	1
11031	OCDD	3268-87-9	0.704	JB	0.0253	11.2	1
11031	2378-TCDF	51207-31-9	0.0311	U	0.0311	1.12	1
11031	12378-PeCDF	57117-41-6	0.209	JB	0.0163	5.61	1
11031	23478-PeCDF	57117-31-4	0.199	JB	0.0161	5.61	1
11031	123478-HxCDF	70648-26-9	0.181	JBQ	0.0202	5.61	1
11031	123678-HxCDF	57117-44-9	0.145	JBQ	0.0146	5.61	1
11031	123789-HxCDF	72918-21-9	0.282	JB	0.0172	5.61	1
11031	234678-HxCDF	60851-34-5	0.0901	JBQ	0.0139	5.61	1
11031	1234678-HpCDF	67562-39-4	0.0937	JBQ	0.0113	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0506	JBQ	0.0172	5.61	1
11031	OCDF	39001-02-0	0.201	JB	0.0301	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-216-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-216-SA5A-SB-4.0-5.0

LLI Sample # SW 6241902
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 11:30

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD216 SDG#: DX065-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-216-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-216-SA5A-SB-4.0-5.0

LLI Sample # SW 6241902
LLI Group # 1239327
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/28/2011 11:30

Submitted: 03/29/2011 09:45
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD216 SDG#: DX065-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 07:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239327
Reported: 05/09/11 at 11:44 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11096162401A	Sample number(s): 6241899-6241901								
Moisture Content by 160.3					100		80-120		
Batch number: 11101162401A	Sample number(s): 6241897-6241898								
Moisture Content by 160.3					100		80-120		
Batch number: 11102162401A	Sample number(s): 6241902								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11095001	Sample number(s): 6241897-6241902								
2378-TCDD	0.0273 U	0.0273	1.00	ng/kg	98		67-158		
12378-PeCDD	0.131 J	0.0316	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0888 J	0.0197	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0837 J	0.0197	5.00	ng/kg	105		76-134		
123789-HxCDD	0.115 J	0.0192	5.00	ng/kg	105		64-162		
1234678-HpCDD	0.280 J	0.0231	5.00	ng/kg	104		70-140		
OCDD	1.16 J	0.0205	10.0	ng/kg	102		78-144		
2378-TCDF	0.0414 J	0.0248	1.00	ng/kg	113		75-158		
12378-PeCDF	0.130 J	0.0133	5.00	ng/kg	103		80-134		
23478-PeCDF	0.187 J	0.0130	5.00	ng/kg	104		68-160		
123478-HxCDF	0.170 J	0.0200	5.00	ng/kg	103		72-134		
123678-HxCDF	0.123 J	0.0163	5.00	ng/kg	106		84-130		
123789-HxCDF	0.140 J	0.0167	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0964 J	0.0153	5.00	ng/kg	104		70-156		
1234678-HpCDF	0.140 J	0.0103	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.105 J	0.0134	5.00	ng/kg	104		78-138		
OCDF	0.274 J	0.0243	10.0	ng/kg	104		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11096162401A	Sample number(s): 6241899-6241901					BKG: P240605			
Moisture Content by 160.3						15.5	15.0	3	20
Batch number: 11101162401A	Sample number(s): 6241897-6241898					BKG: P239176			
Moisture Content by 160.3						12.0	11.0	9	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239327
Reported: 05/09/11 at 11:44 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11102162401A	Sample number(s): 6241902			BKG: P242769					
Moisture Content by 160.3						13.3	13.7	3	20
Batch number: 11095001	Sample number(s): 6241897-6241902 UNSPK: P244313								
2378-TCDD	80	79	67-158	1	25				
12378-PeCDD	73	70	70-142	3	25				
123478-HxCDD	70	68*	70-164	2	25				
123678-HxCDD	27*	20*	76-134	6	25				
123789-HxCDD	49*	44*	64-162	6	25				
1234678-HpCDD	-652 (2)	-723 (2)	70-140	50*	25				
OCDD	-897 (2)	-1012 (2)	78-144	71*	25				
2378-TCDF	-124*	-134*	75-158	9	25				
12378-PeCDF	23*	21*	80-134	2	25				
23478-PeCDF	-66*	-69*	68-160	2	25				
123478-HxCDF	-100*	-104*	72-134	4	25				
123678-HxCDF	-75*	-79*	84-130	4	25				
123789-HxCDF	29*	27*	78-130	2	25				
234678-HxCDF	-232*	-236*	70-156	4	25				
1234678-HpCDF	-775 (2)	-786 (2)	82-122	9	25				
1234789-HpCDF	-20*	-19*	78-138	1	25				
OCDF	-179*	-184*	63-170	5	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11095001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6241897	67	72	44	60	72	80
6241898	76	72	48	66	76	71
6241899	75	78	39	57	77	74
6241900	79	79	40	59	74	76
6241901	75	76	46	65	76	84
6241902	71	73	53	71	71	67
Blank	73	75	59	71	76	77
MS	83	85	47	66	78	84
MSD	68	79	53	68	72	72
OPR	75	71	44	62	73	78
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239327
Reported: 05/09/11 at 11:44 PM

Surrogate Quality Control

6241897	71	80	82	85	75	71
6241898	70	73	69	91	75	76
6241899	64	76	74	86	85	70
6241900	70	73	67	87	85	76
6241901	76	78	76	84	82	77
6241902	90	68	68	91	78	78
Blank	87	77	79	95	80	79
MS	76	81	86	94	90	79
MSD	88	72	71	89	82	74
OPR	70	70	67	88	75	75
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6241897	75	76	86	91	65	74
6241898	79	79	79	78	73	76
6241899	77	84	87	92	74	87
6241900	80	84	87	87	71	86
6241901	82	83	91	94	71	85
6241902	76	83	87	88	66	80
Blank	81	82	89	94	71	80
MS	82	83	93	100	79	92
MSD	75	80	84	87	63	78
OPR	78	78	82	80	70	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 / 1239327 / 6241897-902

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other instructions and Notes
																											Amended COC
SL-209-SA5A-SB-4.5	03.28.11	1543	SOIL	NONE	5-Encores										X	X	X										
SL-209-SA5A-SB-4.0-5.0	03.28.11	1548	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-211-SA5A-SB-3.0	03.28.11	0945	SOIL	NONE	5-Encores										X	X	X										
SL-211-SA5A-SB-2.5-3.5	03.28.11	0950	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-214-SA5A-SB-4.5	03.28.11	1158	SOIL	NONE	4-Encores										X	X											
SL-214-SA5A-SB-4.0-5.0	03.28.11	1203	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-214-SA5A-SB-8.5-9.5	03.28.11	1205	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-215-SA5A-SB-4.5	03.28.11	1447	SOIL	NONE	4-Encores										X	X											
SL-215-SA5A-SB-4.0-5.0	03.28.11	1452	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-216-SA5A-SB-4.5	03.28.11	1125	SOIL	NONE	5-Encores										X	X	X										
SL-216-SA5A-SB-4.0-5.0	03.28.11	1130	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-032811	03.28.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	**Date/Time**	**Received for Laboratory by: (*Signature*)**
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)** 8695 1432 3806

Laboratory:

Lancaster Laboratories, Inc.

Natalie R. Luciano

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Tuesday, March 29, 2011 11:53 AM
To: Natalie R. Luciano
Subject: RE: SSFL-Monday 032811 COC

Attachments: COC_subsurface_samples_03_28_11PH.xls(1).xlsx

COC_subsurface_samples_03_28_1...

Please ignore the last email! This one has the corrected COC for 03282011.

Thanks!

From: Natalie R. Luciano [NLuciano@lancasterlabs.com]
Sent: Tuesday, March 29, 2011 8:33 AM
To: Hartman, Pamela; Bloisa, Peggy
Cc: Burgesser, Todd; Zakowski, Cherie
Subject: RE: SSFL-Monday 032811 COC

Pam,

Thank you for sending the COC. For the first sample listed, we received
5 encores and 4 jars, but the COC lists 4 Encores and 2 16 oz jars.

Please let me know if I should update the COC or if you will be sending a revised copy.

Thank you,
Natalie
Environmental Client Services

Please consider the environment before printing this e-mail.

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Tuesday, March 29, 2011 10:25 AM
To: Burgesser, Todd; Bloisa, Peggy; 'Laura Rainey'; Natalie R. Luciano; SA Env Entry; Zakowski, Cherie
Subject: SSFL-Monday 032811 COC

Hello Everyone,

I will be taking over for Ann Marie at FTL when Peggy is not onsite.
Sorry I did not send yesterday's COC at the end of the day!

Thank you

Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is

addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments. Thank you.

If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

13013 1239327 6241897-902

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Sampler's Signatures: AMCales

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahymyle EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-209-SA5A-SB-4.5	03.28.11	1543	SOIL	NONE	4-Encores										X	X	X										
SL-209-SA5A-SB-4.0-5.0	03.28.11	1548	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-211-SA5A-SB-3.0	03.28.11	0945	SOIL	NONE	5-Encores										X	X	X										
SL-211-SA5A-SB-2.5-3.5	03.28.11	0950	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-214-SA5A-SB-4.5	03.28.11	1158	SOIL	NONE	4-Encores										X	X											
SL-214-SA5A-SB-4.0-5.0	03.28.11	1203	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-214-SA5A-SB-8.5-9.5	03.28.11	1205	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-215-SA5A-SB-4.5	03.28.11	1447	SOIL	NONE	4-Encores										X	X											
SL-215-SA5A-SB-4.0-5.0	03.28.11	1452	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-216-SA5A-SB-4.5	03.28.11	1125	SOIL	NONE	5-Encores										X	X	X										
SL-216-SA5A-SB-4.0-5.0	03.28.11	1130	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-032811	03.28.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/28/11 1630 — Received for Laboratory by: (*Signature*) — Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) — Date/Time: 3/28/11 1645 — Airbill No.(s): 8695 1432 3806

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/30/2011
Group Number: 1239542
SDG: DE114
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-091-SA5A-SB-3.0-4.0 Soil	6242767
SL-208-SA5A-SB-4.0-5.0 Soil	6242768
SL-208-SA5A-SB-7.5-8.5 Soil	6242769
SL-221-SA5A-SB-3.0-4.0 Soil	6242770
EB10-SA5A-032911 Water	6242771
TB-032911 Water	6242772

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-091-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5A-SB-3.0-4.0

LLI Sample # SW 6242767
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 10:59

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1141 SDG#: DE114-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.94
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.94
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.94
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.94
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.94
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.94
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.94
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.94
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.94
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.94
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.94
06192	Methylene Chloride	75-09-2	3.2	J	0.25	4.2		0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.94

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-091-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5A-SB-3.0-4.0

LLI Sample # SW 6242767
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 10:59

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1141 SDG#: DE114-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.94
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.94
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		24.8
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	465		18.5	37.0		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-091-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5A-SB-3.0-4.0

LLI Sample # SW 6242767
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 10:59

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Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1141 SDG#: DE114-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1

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Sample Description: **SL-091-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5A-SB-3.0-4.0

LLI Sample # SW 6242767
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 10:59

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1141 SDG#: DE114-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.23
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1

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Sample Description: **SL-091-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5A-SB-3.0-4.0

LLI Sample # SW 6242767
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 10:59

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1141 SDG#: DE114-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.51	J	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.87	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	J	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,300		5.47	21.8		1

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Sample Description: **SL-091-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5A-SB-3.0-4.0

LLI Sample # SW 6242767
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 10:59

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E1141 SDG#: DE114-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	10.3		0.968	5.44		1
01650	Calcium	7440-70-2	2,320		6.67	21.8		1
01654	Iron	7439-89-6	19,700		5.13	21.8		1
01656	Lithium	7439-93-2	25.3		0.24	2.2		1
01657	Magnesium	7439-95-4	4,690		2.76	10.9		1
06958	Manganese	7439-96-5	281		0.0849	0.544		1
10145	Phosphorus	7723-14-0	353		0.609	10.9		1
01662	Potassium	7440-09-7	3,370		19.6	54.4		1
01667	Sodium	7440-23-5	91.1	J	40.6	109		1
07968	Strontium	7440-24-6	15.3		0.0675	0.544		1
06969	Tin	7440-31-5	3.29	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,140		0.413	1.09		1
10146	Zirconium	7440-67-7	1.30	J	0.914	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0828	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.52		0.0879	0.440		2
06126	Barium	7440-39-3	108		0.119	0.440		2
06127	Beryllium	7440-41-7	0.649		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.195		0.0440	0.110		2
06131	Chromium	7440-47-3	20.1		0.132	0.440		2
06132	Cobalt	7440-48-4	6.50		0.0220	0.110		2
06133	Copper	7440-50-8	8.71		0.0725	0.440		2
06135	Lead	7439-92-1	5.42		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.512		0.0549	0.110		2
06139	Nickel	7440-02-0	13.8		0.110	0.440		2
06141	Selenium	7782-49-2	0.236	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0413	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.291		0.0330	0.110		2
06148	Vanadium	7440-62-2	39.7		0.0242	0.110		2
06149	Zinc	7440-66-6	57.7		0.615	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.22	1.1		1

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Sample Description: **SL-091-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5A-SB-3.0-4.0

LLI Sample # SW 6242767
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 10:59

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1141 SDG#: DE114-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	301		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.31		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-091-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110911AA	04/01/2011	07:36	Angela D Sneeringer	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110891AA	03/30/2011	23:12	Sara E Johnson	24.8
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108923972	03/30/2011	12:29	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108923969	03/30/2011	12:46	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108923969	03/30/2011	12:46	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108923969	03/30/2011	12:30	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/14/2011	14:51	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011	05:12	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011	00:52	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011	14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011	08:00	Olivia Arosemena	1

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Sample Description: **SL-091-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5A-SB-3.0-4.0

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E1141 SDG#: DE114-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 15:05	Elizabeth J Marin	19.23
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108923969	03/30/2011 12:30	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011 01:55	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110900006A	04/01/2011 20:52	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 02:45	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110900006A	03/31/2011 16:45	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 09:11	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	03/31/2011 22:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011 15:48	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/05/2011 07:09	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110895708003	04/07/2011 02:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110895708003	04/08/2011 19:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	110895708003	04/07/2011 02:33	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110895708003	04/07/2011 02:33	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110895708003	04/07/2011 02:33	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110895708003	04/07/2011 02:33	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110895708003	04/07/2011 02:33	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110895708003	04/07/2011 02:33	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110895708003	04/07/2011 02:33	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110895708003	04/07/2011 02:33	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110895708003	04/07/2011 02:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110895708003	04/07/2011 02:33	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110895708003	04/07/2011 02:33	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110895708003	04/07/2011 02:33	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110891026003A	04/04/2011 13:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110891026003A	04/04/2011 13:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110891026003D	04/04/2011 13:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110891026003A	04/04/2011 13:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110891026003A	04/04/2011 13:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110891026003A	04/04/2011 13:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110891026003A	04/04/2011 13:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110891026003A	04/04/2011 13:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110891026003A	04/04/2011 13:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110891026003C	04/05/2011 23:17	David K Beck	2
06139	Nickel	SW-846 6020	1	110891026003A	04/04/2011 13:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110891026003B	04/04/2011 13:27	Choon Y Tian	2

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Sample Description: **SL-091-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5A-SB-3.0-4.0

LLI Sample # SW 6242767
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 10:59

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E1141 SDG#: DE114-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	110891026003A	04/04/2011 13:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110891026003A	04/04/2011 13:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110891026003A	04/04/2011 13:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110891026003A	04/04/2011 13:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110895711004	04/01/2011 08:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110895708003	03/31/2011 08:35	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110891026003	03/31/2011 08:50	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110895711004	03/31/2011 10:30	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11102102201A	04/13/2011 19:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11102102201A	04/13/2011 19:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201A	04/12/2011 02:45	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11103243201A	04/18/2011 19:24	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11097102201A	04/07/2011 19:14	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11102999201A	04/12/2011 13:25	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201A	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11097102201A	04/07/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182102A	04/04/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039402A	04/04/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-208-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-4.0-5.0

LLI Sample # SW 6242768
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:50

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1142 SDG#: DE114-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.4		0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.92
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.92
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.92
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.92
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.92
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.92
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.92
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.92
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.92
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.92
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.92
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.92
06192	Methylene Chloride	75-09-2	3.2	J	0.25	4.2		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.92

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Sample Description: SL-208-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-4.0-5.0

LLI Sample # SW 6242768
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:50

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1142 SDG#: DE114-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.92
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.92
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.92
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.92
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.92
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		19.94
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	137		19.1	38.1		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1

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Sample Description: **SL-208-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-4.0-5.0

LLI Sample # SW 6242768
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:50

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1142 SDG#: DE114-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1

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Sample Description: SL-208-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-4.0-5.0

LLI Sample # SW 6242768
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1142 SDG#: DE114-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.53
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1

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Sample Description: **SL-208-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-4.0-5.0

LLI Sample # SW 6242768
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:50

Submitted: 03/30/2011 09:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E1142 SDG#: DE114-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.86	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,800		5.64	22.4		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-208-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-4.0-5.0

LLI Sample # SW 6242768
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:50

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1142 SDG#: DE114-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	15.7		0.997	5.60		1
01650	Calcium	7440-70-2	2,540		6.87	22.4		1
01654	Iron	7439-89-6	22,100		5.28	22.4		1
01656	Lithium	7439-93-2	25.1		0.25	2.2		1
01657	Magnesium	7439-95-4	4,530		2.85	11.2		1
06958	Manganese	7439-96-5	378		0.0874	0.560		1
10145	Phosphorus	7723-14-0	206		0.627	11.2		1
01662	Potassium	7440-09-7	2,530		20.2	56.0		1
01667	Sodium	7440-23-5	85.3	J	41.8	112		1
07968	Strontium	7440-24-6	23.6		0.0695	0.560		1
06969	Tin	7440-31-5	3.76	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,170		0.426	1.12		1
10146	Zirconium	7440-67-7	1.99	J	0.941	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.64		0.0879	0.440		2
06126	Barium	7440-39-3	144		0.119	0.440		2
06127	Beryllium	7440-41-7	1.06		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.173		0.0440	0.110		2
06131	Chromium	7440-47-3	29.0		0.132	0.440		2
06132	Cobalt	7440-48-4	9.85		0.0220	0.110		2
06133	Copper	7440-50-8	11.8		0.0725	0.440		2
06135	Lead	7439-92-1	8.91		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.761		0.0549	0.110		2
06139	Nickel	7440-02-0	22.2		0.110	0.440		2
06141	Selenium	7782-49-2	0.221	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0461	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.401		0.0330	0.110		2
06148	Vanadium	7440-62-2	55.3		0.0242	0.110		2
06149	Zinc	7440-66-6	72.6		0.615	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.1		1

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Sample Description: **SL-208-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-4.0-5.0

LLI Sample # SW 6242768
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:50

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1142 SDG#: DE114-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	428		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-208-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110911AA	04/01/2011	07:58	Angela D Sneeringer	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110891AA	03/30/2011	23:32	Sara E Johnson	19.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108923969	03/30/2011	12:33	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108923969	03/30/2011	12:46	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108923969	03/30/2011	12:46	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108923969	03/30/2011	12:34	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/14/2011	15:08	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011	05:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011	01:23	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011	14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011	08:00	Olivia Arosemena	1

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Sample Description: **SL-208-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-4.0-5.0

LLI Sample # SW 6242768
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:50

Submitted: 03/30/2011 09:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1142 SDG#: DE114-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 15:42	Elizabeth J Marin	20.53
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108923969	03/30/2011 12:33	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011 02:37	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110900006A	04/01/2011 21:02	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 03:03	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110900006A	03/31/2011 16:45	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 09:36	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	03/31/2011 22:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011 17:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/05/2011 07:55	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110895708003	04/07/2011 02:37	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110895708003	04/08/2011 19:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	110895708003	04/07/2011 02:37	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110895708003	04/07/2011 02:37	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110895708003	04/07/2011 02:37	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110895708003	04/07/2011 02:37	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110895708003	04/07/2011 02:37	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110895708003	04/07/2011 02:37	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110895708003	04/07/2011 02:37	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110895708003	04/07/2011 02:37	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110895708003	04/07/2011 02:37	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110895708003	04/07/2011 02:37	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110895708003	04/07/2011 02:37	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110895708003	04/07/2011 02:37	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110891026003A	04/04/2011 13:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110891026003A	04/04/2011 13:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110891026003D	04/04/2011 13:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110891026003A	04/04/2011 13:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110891026003A	04/04/2011 13:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110891026003A	04/04/2011 13:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110891026003A	04/04/2011 13:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110891026003A	04/04/2011 13:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110891026003A	04/04/2011 13:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110891026003C	04/04/2011 13:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110891026003A	04/04/2011 13:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110891026003B	04/04/2011 13:30	Choon Y Tian	2

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Sample Description: **SL-208-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-4.0-5.0

LLI Sample # SW 6242768
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:50

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1142 SDG#: DE114-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	110891026003A	04/04/2011 13:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110891026003A	04/04/2011 13:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110891026003A	04/04/2011 13:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110891026003A	04/04/2011 13:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110895711004	04/01/2011 08:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110895708003	03/31/2011 08:35	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110891026003	03/31/2011 08:50	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110895711004	03/31/2011 10:30	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11102102201A	04/13/2011 20:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11102102201A	04/13/2011 20:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201A	04/12/2011 03:53	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11103243201A	04/18/2011 19:53	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11097102201A	04/07/2011 19:16	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11102999201A	04/12/2011 13:25	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201A	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11097102201A	04/07/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182102A	04/04/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039402A	04/04/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-208-SA5A-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-7.5-8.5

LLI Sample # SW 6242769
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:00

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1143 SDG#: DE114-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.96
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.96
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.96
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.96
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.96
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.96
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.96
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.96
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		0.96
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		0.96
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		0.96
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		0.96
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.96
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.96
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.4		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.96
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.96
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.96
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.96
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.96
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.96
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.96
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		0.96
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.96
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		0.96
06192	Methylene Chloride	75-09-2	2.7	J	0.27	4.4		0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.96

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Sample Description: SL-208-SA5A-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-7.5-8.5

LLI Sample # SW 6242769
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:00

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1143 SDG#: DE114-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.96
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.96
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.96
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.96
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.96
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.96
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.96
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		24.41
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	45.1		19.2	38.4		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1

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Sample Description: SL-208-SA5A-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-7.5-8.5

LLI Sample # SW 6242769
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:00

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1143 SDG#: DE114-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1

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Sample Description: **SL-208-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-7.5-8.5

LLI Sample # SW 6242769
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:00

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1143 SDG#: DE114-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1

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Sample Description: **SL-208-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-7.5-8.5

LLI Sample # SW 6242769
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:00

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1143 SDG#: DE114-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.1	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.49	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,900		5.80	23.1		1

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Sample Description: **SL-208-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-7.5-8.5

LLI Sample # SW 6242769
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:00

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1143 SDG#: DE114-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	13.7		1.03	5.77		1
01650	Calcium	7440-70-2	2,630		7.07	23.1		1
01654	Iron	7439-89-6	27,400		5.43	23.1		1
01656	Lithium	7439-93-2	35.7		0.25	2.3		1
01657	Magnesium	7439-95-4	5,860		2.93	11.5		1
06958	Manganese	7439-96-5	138		0.0900	0.577		1
10145	Phosphorus	7723-14-0	129		0.646	11.5		1
01662	Potassium	7440-09-7	1,840		20.8	57.7		1
01667	Sodium	7440-23-5	151		43.0	115		1
07968	Strontium	7440-24-6	22.6		0.0715	0.577		1
06969	Tin	7440-31-5	3.82	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,170		0.438	1.15		1
10146	Zirconium	7440-67-7	2.42	J	0.969	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0760	J	0.0685	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.93		0.0914	0.457		2
06126	Barium	7440-39-3	94.4		0.123	0.457		2
06127	Beryllium	7440-41-7	0.918		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.0967	J	0.0457	0.114		2
06131	Chromium	7440-47-3	25.2		0.137	0.457		2
06132	Cobalt	7440-48-4	4.38		0.0228	0.114		2
06133	Copper	7440-50-8	11.6		0.0754	0.457		2
06135	Lead	7439-92-1	6.63		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.663		0.0571	0.114		2
06139	Nickel	7440-02-0	15.9		0.114	0.457		2
06141	Selenium	7782-49-2	0.113	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.0568	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.293		0.0343	0.114		2
06148	Vanadium	7440-62-2	48.4		0.0251	0.114		2
06149	Zinc	7440-66-6	48.7		0.640	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0050	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-208-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-7.5-8.5

LLI Sample # SW 6242769
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:00

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1143 SDG#: DE114-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	439		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.13		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-208-SA5A-SB-8.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110911AA	04/01/2011 08:21	Angela D Sneeringer	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110891AA	03/30/2011 23:52	Sara E Johnson	24.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108923969	03/30/2011 12:36	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108923969	03/30/2011 12:46	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108923969	03/30/2011 12:46	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108923969	03/30/2011 12:37	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/14/2011 15:41	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011 06:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011 01:55	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011 08:00	Olivia Arosemena	1

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Sample Description: **SL-208-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-7.5-8.5

LLI Sample # SW 6242769
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:00

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1143 SDG#: DE114-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 16:18	Elizabeth J Marin	24.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108923969	03/30/2011 12:37	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011 03:20	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110900006A	04/01/2011 21:11	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 03:22	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110900006A	03/31/2011 16:45	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 10:01	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	03/31/2011 23:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011 17:51	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/05/2011 08:40	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110895708003	04/07/2011 02:41	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110895708003	04/08/2011 19:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	110895708003	04/07/2011 02:41	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110895708003	04/07/2011 02:41	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110895708003	04/07/2011 02:41	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110895708003	04/07/2011 02:41	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110895708003	04/07/2011 02:41	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110895708003	04/07/2011 02:41	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110895708003	04/07/2011 02:41	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110895708003	04/07/2011 02:41	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110895708003	04/07/2011 02:41	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110895708003	04/07/2011 02:41	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110895708003	04/07/2011 02:41	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110895708003	04/07/2011 02:41	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110891026003A	04/04/2011 13:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110891026003A	04/04/2011 13:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110891026003D	04/04/2011 13:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110891026003A	04/04/2011 13:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110891026003A	04/04/2011 13:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110891026003A	04/04/2011 13:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110891026003A	04/04/2011 13:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110891026003A	04/04/2011 13:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110891026003A	04/04/2011 13:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110891026003C	04/04/2011 13:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110891026003A	04/04/2011 13:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110891026003B	04/04/2011 13:33	Choon Y Tian	2

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Sample Description: **SL-208-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-7.5-8.5

LLI Sample # SW 6242769
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:00

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1143 SDG#: DE114-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	110891026003A	04/04/2011 13:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110891026003A	04/04/2011 13:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110891026003A	04/04/2011 13:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110891026003A	04/04/2011 13:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110895711004	04/01/2011 08:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110895708003	03/31/2011 08:35	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110891026003	03/31/2011 08:50	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110895711004	03/31/2011 10:30	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11102102201A	04/13/2011 20:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11102102201A	04/13/2011 20:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201A	04/12/2011 04:15	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11103243201A	04/18/2011 20:00	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11097102201A	04/07/2011 19:17	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11102999201A	04/12/2011 13:25	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201A	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11097102201A	04/07/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182102A	04/04/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039402A	04/04/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-221-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-221-SA5A-SB-3.0-4.0

LLI Sample # SW 6242770
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 14:19

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1144 SDG#: DE114-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6	U	7.6	9.1		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.95
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.95
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.95
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.95
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.95
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		0.95
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		0.95
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.95
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.95
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.95
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.5		0.95
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.95
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		0.95
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.95
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.95
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.95
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.95
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		0.95
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.95
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.95
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.95
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.95
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.5		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		0.95
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.95
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.95
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.95
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.95
06192	Freon 113	76-13-1	0.13	U	0.13	4.5		0.95
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		0.95
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.95
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		0.95
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.95
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.5		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		0.95
06192	Methylene Chloride	75-09-2	2.7	J	0.27	4.5		0.95
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.95

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-221-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-221-SA5A-SB-3.0-4.0

LLI Sample # SW 6242770
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 14:19

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1144 SDG#: DE114-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.5		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.95
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		0.95
06192	Toluene	108-88-3	0.09	U	0.09	4.5		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		0.95
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.95
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.95
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		0.95
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.95
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		22.89
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	139		19.8	39.7		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 21.5 ng/kg. The blank value was not subtracted from the analytical result.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(g,h,i)perylene	191-24-2	22	J	20	200		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1

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Sample Description: SL-221-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-221-SA5A-SB-3.0-4.0

LLI Sample # SW 6242770
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 14:19

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1144 SDG#: DE114-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	64	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.95	J	0.39	2.0		1
10138	Anthracene	120-12-7	0.77	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	5.1		0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	5.8		0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	15		0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	20	J	7.0	21		1
10138	Chrysene	218-01-9	14		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	1.5	J	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1

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Sample Description: SL-221-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-221-SA5A-SB-3.0-4.0

LLI Sample # SW 6242770
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 14:19

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1144 SDG#: DE114-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	8.2		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.1		0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	1.0	J	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	1.2	J	0.78	2.0		1
10138	Naphthalene	91-20-3	3.2		0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	6.4		0.78	2.0		1
10138	Pyrene	129-00-0	6.8		0.78	2.0		1
	Di-n-butylphthalate was detected in the method blank at a concentration of 11 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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Sample Description: SL-221-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-221-SA5A-SB-3.0-4.0

LLI Sample # SW 6242770
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E1144 SDG#: DE114-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	12	U	12	39		10
10225	Aroclor 5442	12642-23-8	12	U	12	39		10
10225	Aroclor 5460	11126-42-4	120		12	39		10
10225	PCB-1016	12674-11-2	3.9	U	3.9	20		10
10225	PCB-1221	11104-28-2	3.9	U	3.9	20		10
10225	PCB-1232	11141-16-5	3.9	U	3.9	20		10
10225	PCB-1242	53469-21-9	3.9	U	3.9	20		10
10225	PCB-1248	12672-29-6	3.9	U	3.9	20		10
10225	PCB-1254	11097-69-1	150		3.9	20		10
10225	PCB-1260	11096-82-5	4.6	U	4.6	20		10
10225	PCB-1262	37324-23-5	3.9	U	3.9	20		10
10225	PCB-1268	11100-14-4	3.9	U	3.9	20		10
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.54	J	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	2.9		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	4.8		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.58	J	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1

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Sample Description: SL-221-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-221-SA5A-SB-3.0-4.0

LLI Sample # SW 6242770
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 14:19

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E1144 SDG#: DE114-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,760		5.81	23.1		1
07914	Boron	7440-42-8	27.7		1.03	5.78		1
01650	Calcium	7440-70-2	61,200		7.09	23.1		1
01654	Iron	7439-89-6	43,500		27.2	116		5
01656	Lithium	7439-93-2	19.5		0.25	2.3		1
01657	Magnesium	7439-95-4	6,940		2.94	11.6		1
06958	Manganese	7439-96-5	575		0.0902	0.578		1
10145	Phosphorus	7723-14-0	677		0.647	11.6		1
01662	Potassium	7440-09-7	2,410		20.8	57.8		1
01667	Sodium	7440-23-5	362		43.1	116		1
07968	Strontium	7440-24-6	98.4		0.0717	0.578		1
06969	Tin	7440-31-5	42.8		1.16	11.6		1
06970	Titanium	7440-32-6	806		0.439	1.16		1
10146	Zirconium	7440-67-7	3.50	J	0.971	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.78		0.0687	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.4		0.0916	0.458		2
06126	Barium	7440-39-3	90.4		0.124	0.458		2
06127	Beryllium	7440-41-7	0.440		0.0183	0.114		2
06128	Cadmium	7440-43-9	18.6		0.0458	0.114		2
06131	Chromium	7440-47-3	693		0.687	2.29		10
06132	Cobalt	7440-48-4	19.5		0.0229	0.114		2
06133	Copper	7440-50-8	699		0.378	2.29		10
06135	Lead	7439-92-1	2,890		0.595	11.4		100
06138	Molybdenum	7439-98-7	19.5		0.0572	0.114		2
06139	Nickel	7440-02-0	538		0.572	2.29		10
06141	Selenium	7782-49-2	0.327	J	0.0458	0.458		2
06142	Silver	7440-22-4	4.45		0.0137	0.114		2
06145	Thallium	7440-28-0	0.172	U	0.172	0.572		10
	Reporting limits were raised due to interference from the sample matrix.							
06148	Vanadium	7440-62-2	34.3		0.0252	0.114		2
06149	Zinc	7440-66-6	616		3.21	17.2		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.377		0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.95	U	0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-221-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-221-SA5A-SB-3.0-4.0

LLI Sample # SW 6242770
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E1144 SDG#: DE114-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	434		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.29		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	16.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-221-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110911AA	04/01/2011	08:43	Angela D Sneeringer	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110891AA	03/31/2011	00:12	Sara E Johnson	22.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201108923969	03/30/2011	12:39	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201108923969	03/30/2011	12:46	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201108923969	03/30/2011	12:46	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201108923969	03/30/2011	12:41	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11092SLB026	04/14/2011	15:57	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011	06:28	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011	07:19	Joseph M Gambler	1

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Sample Description: **SL-221-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-221-SA5A-SB-3.0-4.0

LLI Sample # SW 6242770
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 14:19

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1144 SDG#: DE114-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11092SLB026	04/04/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011 08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 16:54	Elizabeth J Marin	21.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201108923969	03/30/2011 12:40	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011 04:02	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110900006A	04/01/2011 21:21	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 03:41	Richard A Shober	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110900006A	03/31/2011 16:45	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110900035A	04/02/2011 10:53	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	03/31/2011 23:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011 18:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110920003A	04/05/2011 10:10	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110900035A	04/01/2011 06:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110920003A	04/04/2011 07:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110895708003	04/07/2011 01:37	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110895708003	04/08/2011 17:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	110895708003	04/08/2011 17:58	John P Hook	1
01654	Iron	SW-846 6010B	1	110895708003	04/08/2011 21:35	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	110895708003	04/07/2011 01:37	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110895708003	04/07/2011 01:37	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110895708003	04/07/2011 01:37	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110895708003	04/07/2011 01:37	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110895708003	04/07/2011 01:37	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110895708003	04/07/2011 01:37	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110895708003	04/07/2011 01:37	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110895708003	04/07/2011 01:37	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110895708003	04/07/2011 01:37	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110895708003	04/07/2011 01:37	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110891026003A	04/04/2011 13:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110891026003A	04/04/2011 13:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110891026003D	04/04/2011 13:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110891026003A	04/04/2011 13:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110891026003A	04/04/2011 13:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110891026003A	04/04/2011 14:04	Choon Y Tian	10
06132	Cobalt	SW-846 6020	1	110891026003A	04/04/2011 13:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110891026003A	04/04/2011 14:04	Choon Y Tian	10
06135	Lead	SW-846 6020	1	110891026003A	04/04/2011 14:28	Choon Y Tian	100

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Sample Description: **SL-221-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-221-SA5A-SB-3.0-4.0

LLI Sample # SW 6242770
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 14:19

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1144 SDG#: DE114-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	110891026003C	04/04/2011 13:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110891026003A	04/04/2011 14:04	Choon Y Tian	10
06141	Selenium	SW-846 6020	1	110891026003B	04/04/2011 13:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110891026003A	04/04/2011 13:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110891026003A	04/04/2011 14:04	Choon Y Tian	10
06148	Vanadium	SW-846 6020	1	110891026003A	04/04/2011 13:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110891026003A	04/04/2011 14:04	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	110895711004	04/01/2011 08:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110895708003	03/31/2011 08:35	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110891026003	03/31/2011 08:50	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110895711004	03/31/2011 10:30	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11102102201A	04/13/2011 20:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11102102201A	04/13/2011 20:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201A	04/12/2011 04:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11103243201A	04/18/2011 20:22	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11097102201B	04/07/2011 19:18	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11102999201A	04/12/2011 13:25	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201A	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11097102201B	04/07/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182102A	04/04/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039402A	04/04/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB10-SA5A-032911 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5A-032911

LLI Sample # WW 6242771
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:30

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1145 SDG#: DE114-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: **EB10-SA5A-032911 Water**
SSFL Area IV Collocated Soil Sampling
EB10-SA5A-032911

LLI Sample # WW 6242771
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:30

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1145 SDG#: DE114-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	1.81		0.505	1.01		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 2.09 ug/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was again detected in the sample at a concentration of .81 ug/l. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	2	U	2	10		1
04678	Benzidine	92-87-5	40	U	40	120		1
04678	Benzoic acid	65-85-0	12	U	12	30		1
04678	Benzyl alcohol	100-51-6	10	U	10	30		1
04678	4-Bromophenyl-phenylether	101-55-3	2	U	2	10		1
04678	Carbazole	86-74-8	2	U	2	10		1
04678	4-Chloro-3-methylphenol	59-50-7	2	U	2	10		1
04678	4-Chloroaniline	106-47-8	2	U	2	10		1
04678	bis(2-Chloroethoxy)methane	111-91-1	2	U	2	10		1
04678	bis(2-Chloroethyl)ether	111-44-4	2	U	2	10		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	2	U	2	10		1
04678	2-Chloronaphthalene	91-58-7	4	U	4	10		1
04678	2-Chlorophenol	95-57-8	2	U	2	10		1
04678	4-Chlorophenyl-phenylether	7005-72-3	4	U	4	10		1
04678	Dibenzofuran	132-64-9	2	U	2	10		1
04678	1,2-Dichlorobenzene	95-50-1	2	U	2	10		1
04678	1,3-Dichlorobenzene	541-73-1	2	U	2	10		1

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Sample Description: **EB10-SA5A-032911 Water**
SSFL Area IV Collocated Soil Sampling
EB10-SA5A-032911

LLI Sample # WW 6242771
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:30

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1145 SDG#: DE114-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,4-Dichlorobenzene	106-46-7	2	U	2	10		1
04678	3,3'-Dichlorobenzidine	91-94-1	4	U	4	10		1
04678	2,4-Dichlorophenol	120-83-2	2	U	2	10		1
04678	2,4-Dimethylphenol	105-67-9	6	U	6	20		1
04678	3,5-Dimethylphenol	108-68-9	6	U	6	20		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	10	U	10	30		1
04678	2,4-Dinitrophenol	51-28-5	20	U	20	60		1
04678	2,4-Dinitrotoluene	121-14-2	2	U	2	10		1
04678	2,6-Dinitrotoluene	606-20-2	2	U	2	10		1
04678	1,2-Diphenylhydrazine	122-66-7	2	U	2	10		1
04678	Hexachlorobenzene	118-74-1	2	U	2	10		1
04678	Hexachlorobutadiene	87-68-3	2	U	2	10		1
04678	Hexachlorocyclopentadiene	77-47-4	10	U	10	30		1
04678	Hexachloroethane	67-72-1	2	U	2	10		1
04678	Isophorone	78-59-1	2	U	2	10		1
04678	2-Methylphenol	95-48-7	2	U	2	10		1
04678	4-Methylphenol	106-44-5	4	U	4	10		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	2	U	2	10		1
04678	3-Nitroaniline	99-09-2	2	U	2	10		1
04678	4-Nitroaniline	100-01-6	2	U	2	10		1
04678	Nitrobenzene	98-95-3	2	U	2	10		1
04678	2-Nitrophenol	88-75-5	2	U	2	10		1
04678	4-Nitrophenol	100-02-7	20	U	20	60		1
04678	N-Nitroso-di-n-propylamine	621-64-7	2	U	2	10		1
04678	N-Nitrosodiphenylamine	86-30-6	4	U	4	10		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	6	U	6	30		1
04678	Phenol	108-95-2	2	U	2	10		1
04678	1,2,4-Trichlorobenzene	120-82-1	2	U	2	10		1
04678	2,4,5-Trichlorophenol	95-95-4	2	U	2	10		1
04678	2,4,6-Trichlorophenol	88-06-2	2	U	2	10		1
	Reporting limits were raised due to limited sample volume.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053		1
10137	Butylbenzylphthalate	85-68-7	0.053	U	0.053	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.44	J	0.053	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053		1

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Sample Description: **EB10-SA5A-032911 Water**
SSFL Area IV Collocated Soil Sampling
EB10-SA5A-032911

LLI Sample # WW 6242771
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:30

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1145 SDG#: DE114-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053		1
10137	Diethylphthalate	84-66-2	0.091	J	0.053	1.1		1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.23	J	0.053	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.053		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.053		1
10137	Naphthalene	91-20-3	0.032	U	0.032	0.053		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053		1
10137	Di-n-octylphthalate	117-84-0	0.12	J	0.053	1.1		1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.053		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .12 ug/l
di-n-octylphthalate .074 ug/l
These blank values were not subtracted from the analytical results.

Reporting limits were raised due to limited sample volume.

GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1

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Sample Description: EB10-SA5A-032911 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5A-032911

LLI Sample # WW 6242771
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:30

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1145 SDG#: DE114-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.37	U	0.37	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
	Reporting limits were raised due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.50		1
10227	PCB-1260	11096-82-5	0.10	U	0.10	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.60		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1

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Sample Description: **EB10-SA5A-032911 Water**
SSFL Area IV Collocated Soil Sampling
EB10-SA5A-032911

LLI Sample # WW 6242771
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:30

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1145 SDG#: DE114-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		mg/l		mg/l	mg/l	mg/l	
10319	m-Terphenyl	92-06-8	0.081	U	0.081	0.25		1
10319	o-Terphenyl	84-15-1	0.081	U	0.081	0.25		1
10319	p-Terphenyl	92-94-4	0.081	U	0.081	0.25		1
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		mg/l		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		mg/l		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000050	U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	mg/l	

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Sample Description: **EB10-SA5A-032911 Water**
SSFL Area IV Collocated Soil Sampling
EB10-SA5A-032911

LLI Sample # WW 6242771
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:30

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1145 SDG#: DE114-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	mg/l	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	EPA 314.0		ug/l		ug/l	ug/l	ug/l	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		ug/l		ug/l	ug/l	ug/l	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	SW-846 9012B		mg/l		mg/l	mg/l	mg/l	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1
	SW-846 9040B		Std. Units		Std. Units	Std. Units	Std. Units	
00200	18b pH by 9040B	n.a.	5.5		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110942AA	04/04/2011 16:46	Chelsea B Eastep	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110901AA	03/31/2011 10:38	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110901AA	03/31/2011 10:38	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110942AA	04/04/2011 16:46	Chelsea B Eastep	1
10962	15b NDMA by 1625C	EPA 1625C	1	11092WAD026	04/06/2011 09:25	Timothy J Trees	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11094WAD026	04/08/2011 01:03	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11090WAG026	04/03/2011 20:35	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11094WAD026	04/05/2011 07:00	Olivia Arosemena	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11090WAG026	04/01/2011 17:00	Timothy J Attenberger	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11092WAD026	04/04/2011 13:25	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11094A20A	04/04/2011 15:17	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11094A20A	04/04/2011 15:17	Laura M Krieger	1
10131	16b Energetics by 8330A	SW-846 8330A	1	110900054A	04/05/2011 20:58	James H Place	1

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Sample Description: EB10-SA5A-032911 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5A-032911

LLI Sample # WW 6242771
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:30

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CDM Federal Programs Corp.
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E1145 SDG#: DE114-05EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	25b Formaldehyde 8315A	SW-846 8315A	1	110900027A	04/01/2011 19:26	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110940029A	04/06/2011 23:02	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	110940029A	04/05/2011 14:30	Kelli M Barto	1
01013	Formaldehyde Extraction	SW-846 8315A	1	110900027A	04/01/2011 09:00	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	110900054A	04/02/2011 08:30	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110890026A	04/02/2011 18:33	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	110910017A	04/01/2011 18:15	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	110940001A	04/05/2011 16:49	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	110900003A	04/01/2011 19:47	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	110890026A	03/31/2011 10:10	Denise L Trimby	1
10304	Terphenyls water prep	SW-846 3510C	1	110900003A	03/31/2011 10:10	Roza S Goslawska	1
01743	Aluminum	SW-846 6010B	1	110941848004	04/07/2011 05:34	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	110941848004	04/07/2011 05:34	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	110941848004	04/07/2011 05:34	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	110941848004	04/07/2011 05:34	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	110941848004	04/11/2011 00:58	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	110941848004	04/07/2011 05:34	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	110941848004	04/07/2011 05:34	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	110941848004	04/11/2011 00:58	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	110941848004	04/07/2011 05:34	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	110941848004	04/07/2011 05:34	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	110941848004	04/07/2011 05:34	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	110941848004	04/07/2011 05:34	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	110941848004	04/07/2011 05:34	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	110941848004	04/07/2011 05:34	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	110946050006A	04/06/2011 08:37	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	110946050006A	04/06/2011 08:37	Choon Y Tian	1
06026	Barium	SW-846 6020	1	110946050006D	04/06/2011 08:37	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	110946050006A	04/06/2011 08:37	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	110946050006A	04/06/2011 08:37	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	110946050006A	04/06/2011 08:37	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	110946050006A	04/06/2011 08:37	Choon Y Tian	1
06033	Copper	SW-846 6020	1	110946050006A	04/06/2011 08:37	Choon Y Tian	1
06035	Lead	SW-846 6020	1	110946050006A	04/06/2011 08:37	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	110946050006C	04/06/2011 08:37	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	110946050006A	04/06/2011 08:37	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	110946050006B	04/06/2011 08:37	Choon Y Tian	1
06042	Silver	SW-846 6020	1	110946050006A	04/06/2011 08:37	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	110946050006A	04/06/2011 08:37	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	110946050006A	04/06/2011 08:37	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	110946050006A	04/06/2011 08:37	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	110905713003	04/01/2011 09:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110941848004	04/05/2011 12:53	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110946050006	04/05/2011 13:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110905713003	03/31/2011 15:40	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB10-SA5A-032911 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5A-032911

LLI Sample # WW 6242771
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:30

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1145 SDG#: DE114-05EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11089196602C	03/30/2011 21:04	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11089196602C	03/30/2011 21:04	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11088196701A	03/30/2011 12:15	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11089196401C	03/30/2011 10:37	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11101117101B	04/12/2011 09:18	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11101117101B	04/11/2011 10:05	Nancy J Shoop	1
00200	18b pH by 9040B	SW-846 9040B	1	11089020001A	03/30/2011 21:20	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-032911 Water
SSFL Area IV Collocated Soil Sampling
TB-032911

LLI Sample # WW 6242772
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:00

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1146 SDG#: DE114-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-032911 Water**
SSFL Area IV Collocated Soil Sampling
TB-032911

LLI Sample # WW 6242772
LLI Group # 1239542
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:00

Submitted: 03/30/2011 09:30
Reported: 04/20/2011 09:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E1146 SDG#: DE114-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110942AA	04/04/2011	17:07	Chelsea B Eastep	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110901AA	03/31/2011	10:58	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110901AA	03/31/2011	10:58	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110942AA	04/04/2011	17:07	Chelsea B Eastep	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11094A20A	04/04/2011	15:39	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11094A20A	04/04/2011	15:39	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110911AA	Sample number(s): 6242767-6242770									
Acetone	6.7	U	6.7	8.0	ug/kg	180	170	32-209	6	30
Benzene	0.10	U	0.10	4.0	ug/kg	104	105	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	100	103	79-120	3	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	122	122	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94	95	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	85	84	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	101	101	32-162	0	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	138	132	46-153	4	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	109	108	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	112	111	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	101	103	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	88	90	69-122	3	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	98	98	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	99	100	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	97	96	43-146	1	30
Chloroform	0.12	U	0.12	4.0	ug/kg	101	102	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	97	99	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104	103	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100	100	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	109	106	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	98	95	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	88	88	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100	100	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102	100	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	98	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99	100	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	99	79-120	0	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	81	82	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	102	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	100	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	102	104	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	103	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	101	103	79-120	1	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	102	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	101	101	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	89	91	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100	102	77-120	2	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91	92	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	88	87	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101	100	80-120	0	30
Freon 113	0.11	U	0.11	4.0	ug/kg	108	108	61-126	0	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	107	107	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101	97	57-120	3	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	127	119	45-155	6	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101	100	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	109	108	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	98	99	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	112	109	61-134	3	30
Methylene Chloride	0.83	J	0.24	4.0	ug/kg	106	107	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	110	111	77-120	0	30
Styrene	0.10	U	0.10	4.0	ug/kg	94	95	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	90	91	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	108	108	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	97	95	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	100	100	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	97	97	64-120	0	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	97	95	68-120	2	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	83	84	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102	100	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99	99	80-120	0	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	99	99	58-133	0	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	108	107	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	107	106	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	106	107	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	94	96	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99	98	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	97	97	80-120	0	30
Batch number: E110891AA	Sample number(s): 6242767-6242770									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	106	110	70-130	3	30
Batch number: E110901AA	Sample number(s): 6242771-6242772									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	112	116	80-123	3	30
Batch number: Y110942AA	Sample number(s): 6242771-6242772									
Acetone	6	U	6.	20	ug/l	101	99	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	102	99	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	105	100	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	109	105	80-120	5	30
Bromodichloromethane	1	U	1.	5	ug/l	107	101	80-120	6	30
Bromoform	1	U	1.	5	ug/l	90	87	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	113	111	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	99	97	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	93	87	74-120	7	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	91	78-120	8	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	91	80-120	4	30
Carbon Tetrachloride	1	U	1.	5	ug/l	118	109	75-123	8	30
Chlorobenzene	0.8	U	0.8	5	ug/l	103	97	80-120	6	30
Chloroethane	1	U	1.	5	ug/l	104	103	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	89	89	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	112	107	77-122	5	30
Chloromethane	1	U	1.	5	ug/l	80	77	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	100	94	80-120	6	30
4-Chlorotoluene	1	U	1.	5	ug/l	99	95	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	81	81	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	94	89	56-126	5	30
Dibromochloromethane	1	U	1.	5	ug/l	101	96	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	100	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	104	105	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	94	80-120	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	96	80-120	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	95	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	93	86	47-120	8	30
1,1-Dichloroethane	1	U	1.	5	ug/l	104	100	79-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	121	118	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	108	103	74-123	5	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	99	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	96	80-120	4	30
1,2-Dichloropropane	1	U	1.	5	ug/l	97	95	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	99	96	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	103	98	77-124	5	30
1,1-Dichloropropene	1	U	1.	5	ug/l	106	101	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	97	95	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	90	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	101	96	79-120	5	30
Freon 113	2	U	2.	10	ug/l	123	113	69-128	9	30
Freon 133a	2	U	2.	5	ug/l	117	110	77-120	6	30
Hexachlorobutadiene	2	U	2.	5	ug/l	91	90	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	93	89	65-136	5	30
Isopropylbenzene	1	U	1.	5	ug/l	103	96	77-120	7	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	92	80-120	6	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	103	101	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	100	97	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	103	110	80-120	7	30
n-Propylbenzene	1	U	1.	5	ug/l	100	94	80-120	6	30
Styrene	1	U	1.	5	ug/l	96	91	80-120	6	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	103	100	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	91	91	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	109	103	80-121	6	30
Toluene	0.7	U	0.7	5	ug/l	99	94	79-120	5	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	96	93	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	84	67-120	6	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	113	109	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	97	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	106	101	80-120	5	30
Trichlorofluoromethane	2	U	2.	5	ug/l	134*	123	64-129	9	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	104	101	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	100	94	74-120	6	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	94	75-120	7	30
Vinyl Chloride	1	U	1.	5	ug/l	89	83	65-125	7	30
m+p-Xylene	0.8	U	0.8	5	ug/l	100	95	80-120	5	30
o-Xylene	0.8	U	0.8	5	ug/l	99	93	80-120	6	30
Batch number: 11090WAG026	Sample number(s): 6242771									
Acenaphthene	0.010	U	0.010	0.050	ug/l	99	94	74-109	5	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	107	103	70-110	3	30
Anthracene	0.010	U	0.010	0.050	ug/l	106	105	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	106	106	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	81	82	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	84	83	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	78	78	57-131	0	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	86	86	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	104	101	40-138	3	30
Di-n-butylphthalate	0.12	J	0.050	1.0	ug/l	113	114	74-131	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	97	96	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	80	80	55-134	0	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	117	116	57-134	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	99	95	40-119	4	30
Bis(2-Ethylhexyl)phthalate	0.074	J	0.050	1.0	ug/l	115	117	57-154	2	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	108	108	75-116	0	30
Fluorene	0.010	U	0.010	0.050	ug/l	109	107	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	80	80	69-124	0	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	96	97	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	114	114	75-115	0	30
Naphthalene	0.030	U	0.030	0.050	ug/l	100	98	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	55	59	36-89	6	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	86	89	57-145	3	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	102	102	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	99	99	69-118	1	30
Batch number: 11092SLB026	Sample number(s): 6242767-6242770									
N-Nitrosodimethylamine	21.5	J	16.7	33.3	ng/kg	76		70-130		
Batch number: 11092WAD026	Sample number(s): 6242771									
N-Nitrosodimethylamine	2.09		0.500	1.00	ng/l	87	86	70-130	0	30
Batch number: 11094SLC026	Sample number(s): 6242767-6242770									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	90		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	71		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	77		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	88		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	80		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	90		65-131		
Di-n-butylphthalate	11	J	6.0	18	ug/kg	98		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	88		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	92		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	104		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	91		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	87		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	88		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	91		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	89		56-121		
Batch number: 11094WAD026	Sample number(s): 6242771									
Aniline	1	U	1.	5	ug/l	82	84	49-101	3	30
Benzidine	20	U	20.	60	ug/l	82	82	34-117	0	30
Benzoic acid	6	U	6.	15	ug/l	46	46	10-69	0	30
Benzyl alcohol	5	U	5.	15	ug/l	84	90	66-97	6	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	101	100	82-117	0	30
Carbazole	1	U	1.	5	ug/l	102	100	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	92	93	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	83	79	42-124	6	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	98	98	74-124	0	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	94	96	77-108	1	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	87	91	62-127	5	30
2-Chloronaphthalene	2	U	2.	5	ug/l	83	83	54-132	1	30
2-Chlorophenol	1	U	1.	5	ug/l	91	97	77-108	6	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	99	101	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	100	100	83-108	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	86	87	55-118	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3-Dichlorobenzene	1	U	1.	5	ug/l	85	85	50-119	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	84	85	53-119	1	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	83	78	49-111	7	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	97	100	80-109	4	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	96	72-110	0	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	90	94	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	84	86	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	79	83	52-131	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	97	99	81-115	2	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	97	98	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	104	104	78-116	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	102	99	81-118	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	79	78	57-124	2	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	69	70	36-118	0	30
Hexachloroethane	1	U	1.	5	ug/l	72	73	52-113	1	30
Isophorone	1	U	1.	5	ug/l	96	96	74-117	1	30
2-Methylphenol	1	U	1.	5	ug/l	81	87	64-101	7	30
4-Methylphenol	2	U	2.	5	ug/l	77	81	61-103	6	30
2-Nitroaniline	1	U	1.	5	ug/l	99	100	83-116	0	30
3-Nitroaniline	1	U	1.	5	ug/l	98	97	74-113	1	30
4-Nitroaniline	1	U	1.	5	ug/l	83	83	59-100	0	30
Nitrobenzene	1	U	1.	5	ug/l	95	96	75-109	1	30
2-Nitrophenol	1	U	1.	5	ug/l	95	99	86-120	4	30
4-Nitrophenol	10	U	10.	30	ug/l	46	45	16-78	2	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	88	93	69-110	5	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	104	104	67-136	0	30
Pentachlorophenol	3	U	3.	15	ug/l	84	91	53-110	9	30
Phenol	1	U	1.	5	ug/l	42	44	21-67	5	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	94	71-112	2	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	94	97	79-107	3	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	100	107	81-113	7	30
Batch number: 11095SLA026	Sample number(s): 6242767-6242770									
Aniline	170 U		170.	500	ug/kg	81		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	101		65-122		
Benzoic acid	170 U		170.	500	ug/kg	95		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	93		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		79-117		
Di-n-butylphthalate	17	U	17.	170	ug/kg	100		79-112		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	89		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	63		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	72		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100		100.	330	ug/kg	80		24-101		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	90		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	85		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	73		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	91		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	92		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	104		77-111		
bis(2-Ethylhexyl)phthalate	17	J	17.	330	ug/kg	103		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	93		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	80		68-105		
Isophorone	17	U	17.	170	ug/kg	90		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	87		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	87		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	90		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	80		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	83		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	105		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	91		51-117		
Phenol	17	U	17.	170	ug/kg	81		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	103		78-111		
Batch number: 11091A34A	Sample number(s): 6242767-6242770									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68		67-119		
Batch number: 11094A20A	Sample number(s): 6242771-6242772									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 110900050A	Sample number(s): 6242767-6242770									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	92	95	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	91	94	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	106		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	102		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	104		80-120		
HMX	100	U	100.	300	ug/kg	98		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	103		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	85		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	106		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	104		73-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80	U	80.	120	ug/kg	104		80-120		
PETN	800 U		800.	2,400	ug/kg	109		80-120		
RDX	50	U	50.	120	ug/kg	112		75-131		
Tetryl	61	U	61.	120	ug/kg	79		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	108		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
Batch number: 110900054A	Sample number(s): 6242771									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	110	80-120	10	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	107	97	50-122	10	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	107	97	50-122	10	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	98	98	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	100	80-120	10	30
HMX	0.65	U	0.65	2.0	ug/l	100	100	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	89	88	75-121	1	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	100	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	100	100	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	108	108	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	100	100	70-125	0	30
Tetryl	0.40	U	0.40	0.60	ug/l	99	100	72-141	1	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	99	100	53-129	1	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 110900006A	Sample number(s): 6242767-6242770									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	93		80-126		
Batch number: 110900027A	Sample number(s): 6242771									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	96	98	69-130	2	30
Batch number: 110940029A	Sample number(s): 6242771									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	78	80	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	96	88	51-128	9	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	92	88	56-135	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110940035A	Sample number(s): 6242767-6242770									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	77	83	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	105		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110890026A	Sample number(s): 6242771									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	110	92	60-120	18	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	109	104	60-120	5	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	100	100	60-120	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	107	100	60-120	6	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	92	74	60-120	22	30
Batch number: 110900035A	Sample number(s): 6242767-6242770									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	95		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	85		66-113		
Batch number: 110900014A	Sample number(s): 6242767-6242770									
Diethylene glycol	5.0	U	5.0	13	mg/kg	107		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	109		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Batch number: 110900036A	Sample number(s): 6242767-6242770									
Ethanol	100 U		100.	500	ug/kg	91		71-129		
Isopropanol	100 U		100.	500	ug/kg	94		75-125		
Methanol	100 U		100.	500	ug/kg	90		68-129		
Batch number: 110910017A	Sample number(s): 6242771									
Ethanol	200 U		200.	1,000	ug/l	100		66-132		
Isopropanol	200 U		200.	1,000	ug/l	104		75-125		
Methanol	200 U		200.	1,000	ug/l	100		71-140		
Batch number: 110940001A	Sample number(s): 6242771									
Diethylene glycol	10	U	10.	100	mg/l	95		78-126		
Ethylene glycol	10	U	10.	100	mg/l	90		80-124		
Propylene glycol	10	U	10.	100	mg/l	95		80-120		
Batch number: 110900003A	Sample number(s): 6242771									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	81	84	75-125	4	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	94	96	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	78	81	75-125	4	20
Batch number: 110920003A	Sample number(s): 6242767-6242770									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 110891026003A	Sample number(s): 6242767-6242770									
Antimony	0.0583	U	0.0583	0.194	mg/kg	60		27-181		
Arsenic	0.0777	U	0.0777	0.388	mg/kg	104		83-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beryllium	0.0155 U	0.0155	0.0971	mg/kg	99		86-111		
Cadmium	0.0388 U	0.0388	0.0971	mg/kg	101		82-118		
Chromium	0.117 U	0.117	0.388	mg/kg	110		80-120		
Cobalt	0.0194 U	0.0194	0.0971	mg/kg	93		82-118		
Copper	0.218 J	0.0641	0.388	mg/kg	91		83-110		
Lead	0.0131 J	0.0101	0.194	mg/kg	104		83-110		
Nickel	0.0971 U	0.0971	0.388	mg/kg	98		81-110		
Silver	0.0117 U	0.0117	0.0971	mg/kg	102		81-111		
Thallium	0.0291 U	0.0291	0.0971	mg/kg	103		83-110		
Vanadium	0.0214 U	0.0214	0.0971	mg/kg	117		87-117		
Zinc	0.544 U	0.544	2.91	mg/kg	101		81-112		
Batch number: 110891026003B	Sample number(s): 6242767-6242770								
Selenium	0.0388 U	0.0388	0.388	mg/kg	105		83-111		
Batch number: 110891026003C	Sample number(s): 6242767-6242770								
Molybdenum	0.0485 U	0.0485	0.0971	mg/kg	105		78-122		
Batch number: 110891026003D	Sample number(s): 6242767-6242770								
Barium	0.105 U	0.105	0.388	mg/kg	96		81-980		
Batch number: 110895708003	Sample number(s): 6242767-6242770								
Aluminum	5.03 U	5.03	20.0	mg/kg	96		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	97		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	100		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	86		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	99		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	102		89-112		
Phosphorus	1.48 J	0.560	10.0	mg/kg	102		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	100		78-110		
Sodium	37.3 U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	99		86-110		
Tin	2.21 J	1.00	10.0	mg/kg	103		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	88		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	98		80-120		
Batch number: 110895711004	Sample number(s): 6242767-6242770								
Mercury	0.0028 U	0.0028	0.0971	mg/kg	94		88-123		
Batch number: 110905713003	Sample number(s): 6242771								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	93	87	80-120	7	20
Batch number: 110941848004	Sample number(s): 6242771								
Aluminum	0.0834 U	0.0834	0.200	mg/l	98	99	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	93	95	89-110	3	20
Calcium	0.0702 U	0.0702	0.200	mg/l	103	104	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	101	102	90-112	2	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	100	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	101	103	89-110	2	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	101	103	90-110	2	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	103	104	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	101	103	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	101	104	87-114	2	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	104	90-110	4	20
Tin	0.0098 U	0.0098	0.0200	mg/l	95	97	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	99	102	90-113	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Zirconium	0.0206 U	0.0206	0.0500	mg/l	100	103	80-120	3	20
Batch number: 110946050006A	Sample number(s): 6242771								
Antimony	0.00030 U	0.00030	0.0010	mg/l	93	98	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	111	100	86-111	10	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	101	104	90-112	3	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	101	105	90-114	3	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	98	102	90-118	3	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	94	94	87-113	0	20
Copper	0.00038 U	0.00038	0.0020	mg/l	101	104	90-113	2	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	102	102	90-115	0	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	106	90-113	3	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	104	102	90-115	3	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	100	99	89-116	1	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	98	101	89-116	4	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	99	103	90-116	4	20
Batch number: 110946050006B	Sample number(s): 6242771								
Selenium	0.00025 U	0.00025	0.0020	mg/l	99	102	85-114	3	20
Batch number: 110946050006C	Sample number(s): 6242771								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	101	98	89-115	2	20
Batch number: 110946050006D	Sample number(s): 6242771								
Barium	0.00053 U	0.00053	0.0020	mg/l	98	102	88-113	4	20
Batch number: 11088196701A	Sample number(s): 6242771								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	100	99	85-115	1	20
Batch number: 11089196401C	Sample number(s): 6242771								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	102	102	90-110	0	20
Batch number: 11089196602C	Sample number(s): 6242771								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	93	95	90-110	2	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	101	98	90-110	3	20
Batch number: 11097097201A	Sample number(s): 6242767-6242770								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11097102201A	Sample number(s): 6242767-6242769								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	101		80-120		
Batch number: 11097102201B	Sample number(s): 6242770								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	101		80-120		
Batch number: 11101117101B	Sample number(s): 6242771								
17b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	101	103	90-110	2	20
Batch number: 11102102201A	Sample number(s): 6242767-6242770								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	103		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11103243201A	Sample number(s): 6242767-6242770								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11089020001A	Sample number(s): 6242771								

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Quality Control Summary

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Reported: 04/20/11 at 09:56 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
18b pH by 9040B					100	100	90-110	0	1
Batch number: 11094039402A	Sample number(s): 6242767-6242770								
18a pH by 9045C					100		95-105		
Batch number: 11094182102A	Sample number(s): 6242767-6242770								
32a OR Potential					99		98-102		
Batch number: 11102162401A	Sample number(s): 6242767-6242770								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11092SLB026	Sample number(s): 6242767-6242770 UNSPK: P239176								
N-Nitrosodimethylamine	132*	140*	70-130	6	30				
Batch number: 11094SLC026	Sample number(s): 6242767-6242770 UNSPK: P244296								
Acenaphthene	94	96	63-105	3	30				
Acenaphthylene	95	96	67-114	2	30				
Anthracene	99	98	60-122	0	30				
Benzo(a)anthracene	100	96	59-128	3	30				
Benzo(a)pyrene	79	76	45-138	3	30				
Benzo(b)fluoranthene	78	76	43-155	1	30				
Benzo(g,h,i)perylene	90	89	33-141	0	30				
Benzo(k)fluoranthene	81	78	42-144	2	30				
Butylbenzylphthalate	105	102	57-173	2	30				
Di-n-butylphthalate	76	74	65-148	1	30				
Chrysene	101	101	48-134	1	30				
Dibenz(a,h)anthracene	89	89	22-133	1	30				
Diethylphthalate	100	97	70-136	2	30				
Dimethylphthalate	105	106	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	127	117	39-167	7	30				
Fluoranthene	103	101	26-166	0	30				
Fluorene	99	99	66-122	2	30				
Indeno(1,2,3-cd)pyrene	90	90	21-143	1	30				
1-Methylnaphthalene	94	95	72-123	2	30				
2-Methylnaphthalene	88	88	64-103	1	30				
Naphthalene	94	94	61-102	2	30				
N-Nitrosodimethylamine	93	93	48-113	1	30				
Di-n-octylphthalate	106	92	40-192	13	30				
Phenanthrene	97	95	12-165	0	30				
Pyrene	89	85	15-153	3	30				
Batch number: 11095SLA026	Sample number(s): 6242767-6242770 UNSPK: P244296								
Aniline	77	77	35-95	0	30				
Benzidine	57	50	35-141	13	30				
Benzo(g,h,i)perylene	103	101	59-127	2	30				
Benzoic acid	74	78	10-173	5	30				
Benzyl alcohol	89	94	67-115	6	30				

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Reported: 04/20/11 at 09:56 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Bromophenyl-phenylether	98	100	67-129	2	30				
Di-n-butylphthalate	97	97	67-123	0	30				
Carbazole	93	91	64-120	2	30				
4-Chloro-3-methylphenol	89	88	76-110	1	30				
4-Chloroaniline	74	60	23-95	21	30				
bis(2-Chloroethoxy)methane	92	91	75-104	1	30				
bis(2-Chloroethyl)ether	85	88	60-116	4	30				
bis(2-Chloroisopropyl)ether	83	88	55-142	6	30				
2-Chloronaphthalene	70	80	50-141	13	30				
2-Chlorophenol	91	94	73-121	4	30				
4-Chlorophenyl-phenylether	93	95	80-109	2	30				
Dibenzofuran	94	94	71-112	1	30				
1,2-Dichlorobenzene	80	86	66-108	7	30				
1,3-Dichlorobenzene	80	86	63-109	7	30				
1,4-Dichlorobenzene	78	86	70-100	9	30				
3,3'-Dichlorobenzidine	82	69	16-119	16	30				
2,4-Dichlorophenol	95	96	78-117	1	30				
2,4-Dimethylphenol	91	93	78-110	2	30				
3,5-Dimethylphenol	87	91	70-130	4	30				
4,6-Dinitro-2-methylphenol	74	79	24-116	6	30				
2,4-Dinitrophenol	61	61	20-143	0	30				
2,4-Dinitrotoluene	91	88	73-113	3	30				
2,6-Dinitrotoluene	90	89	69-123	1	30				
1,2-Diphenylhydrazine	101	101	71-129	1	30				
bis(2-Ethylhexyl)phthalate	102	101	63-122	0	30				
Hexachlorobenzene	95	96	77-114	1	30				
Hexachlorobutadiene	90	93	62-120	3	30				
Hexachlorocyclopentadiene	81	84	10-153	4	30				
Hexachloroethane	76	82	57-109	9	30				
Isophorone	88	88	73-102	0	30				
2-Methylphenol	86	89	75-111	4	30				
4-Methylphenol	85	88	71-111	4	30				
2-Nitroaniline	92	92	67-125	0	30				
3-Nitroaniline	88	87	59-122	2	30				
4-Nitroaniline	74	67	52-112	9	30				
Nitrobenzene	88	89	72-106	2	30				
2-Nitrophenol	91	92	74-115	1	30				
4-Nitrophenol	78	74	54-113	5	30				
N-Nitroso-di-n-propylamine	81	84	60-116	3	30				
N-Nitrosodiphenylamine	101	102	86-145	1	30				
Pentachlorophenol	79	81	28-127	3	30				
Phenol	83	84	58-126	2	30				
1,2,4-Trichlorobenzene	93	94	72-115	2	30				
2,4,5-Trichlorophenol	92	91	78-109	1	30				
2,4,6-Trichlorophenol	98	100	77-115	2	30				
Batch number: 11091A34A	Sample number(s): 6242767-6242770 UNSPK: P244296								
9a TPH by EPA 8015B Gas C5-C12	70	79	39-118	2	30				
Batch number: 110900050A	Sample number(s): 6242767-6242770 UNSPK: P244296								
4-Amino-2,6-Dinitrotoluene	105	104	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	104	103	80-137	0	50				
1,3-Dinitrobenzene	104	104	38-166	0	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrotoluene	99	99	80-131	0	50				
2,6-Dinitrotoluene	104	103	80-127	2	50				
HMX	98	97	63-128	1	50				
Nitrobenzene	99	96	80-125	3	50				
Nitroglycerin	95	95	80-120	0	50				
2-Nitrotoluene	104	102	80-122	2	50				
3-Nitrotoluene	104	102	72-119	2	50				
4-Nitrotoluene	102	100	80-125	2	50				
PETN	112	111	80-121	1	50				
RDX	107	104	75-129	2	50				
Tetryl	75	71	55-174	5	50				
1,3,5-Trinitrobenzene	100	98	82-126	3	50				
2,4,6-Trinitrotoluene	104	102	82-130	2	50				
Batch number: 110900006A	Sample number(s): 6242767-6242770 UNSPK: P241846								
25a Formaldehyde 8315A	92	93	80-120	1	50				
Batch number: 110940035A	Sample number(s): 6242767-6242770 UNSPK: P244296								
PCB-1016	90	90	29-146	0	50				
PCB-1260	102	98	39-149	3	50				
Batch number: 110900035A	Sample number(s): 6242767-6242770 UNSPK: P239176								
EFH (C12-C14)	100	92	49-123	9	20				
EFH (C15-C20)	234*	114	49-123	69*	20				
EFH (C21-C30)	1671*	-112*	49-123	167*	20				
EFH (C30 - C40)	2421 (2)	-308 (2)	49-123	168*	20				
EFH (C8-C11)	79	67	49-123	10	20				
Batch number: 110900014A	Sample number(s): 6242767-6242770 UNSPK: P244296								
Diethylene glycol	93	90	59-109	4	20				
Ethylene glycol	91	86	63-107	6	20				
Propylene glycol	95	87	63-107	9	20				
Batch number: 110900036A	Sample number(s): 6242767-6242770 UNSPK: P244296								
Ethanol	79	76	48-130	4	20				
Isopropanol	82	79	12-149	4	20				
Methanol	79	76	43-138	4	20				
Batch number: 110910017A	Sample number(s): 6242771 UNSPK: P242990								
Ethanol	92	96	62-145	4	20				
Isopropanol	100	100	73-131	0	20				
Methanol	88	92	52-159	4	20				
Batch number: 110940001A	Sample number(s): 6242771 UNSPK: 6242771								
Diethylene glycol	90	100	83-130	11	20				
Ethylene glycol	90	100	89-125	11	20				
Propylene glycol	90*	100	91-128	11	20				
Batch number: 110920003A	Sample number(s): 6242767-6242770 UNSPK: P239176								
m-Terphenyl	72*	80	75-125	10	20				
o-Terphenyl	88	97	75-125	10	20				
p-Terphenyl	71*	77	75-125	9	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110891026003A	Sample number(s): 6242767-6242770 UNSPK: 6242770 BKG: 6242770								
Antimony	197*	252*	75-125	15	20	1.50	2.71	57*	20
Arsenic	251 (2)	414 (2)	75-125	18	20	10.4	11.5	11	20
Beryllium	137*	173*	75-125	17	20	0.370	0.424	14 (1)	20
Cadmium	-555 (2)	-83 (2)	75-125	38*	20	15.7	12.4	23*	20
Chromium	-4689 (2)	-4474 (2)	75-125	24*	20	582	81.2	151*	20
Cobalt	88	120	75-125	22*	20	16.4	12.1	30*	20
Copper	408 (2)	321 (2)	75-125	1	20	587	3,030	135*	20
Lead	-72455 (2)	-68079 (2)	75-125	51*	20	2,430	416	141*	20
Nickel	-2148 (2)	-2361 (2)	75-125	7	20	452	169	91*	20
Silver	168*	162*	75-125	5	20	3.74	6.11	48*	20
Thallium	146*	132*	75-125	12	20	0.144 U	0.150 U	0 (1)	20
Vanadium	134*	201*	75-125	14	20	28.8	26.7	8	20
Zinc	-188 (2)	382 (2)	75-125	11	20	517	656	24*	20
Batch number: 110891026003B	Sample number(s): 6242767-6242770 UNSPK: 6242770 BKG: 6242770								
Selenium	95	109	75-125	11	20	0.275 J	0.266 J	3 (1)	20
Batch number: 110891026003C	Sample number(s): 6242767-6242770 UNSPK: 6242770 BKG: 6242770								
Molybdenum	160*	373*	75-125	48*	20	16.3	18.8	14	20
Batch number: 110891026003D	Sample number(s): 6242767-6242770 UNSPK: 6242770 BKG: 6242770								
Barium	558 (2)	761 (2)	75-125	13	20	75.9	99.8	27*	20
Batch number: 110895708003	Sample number(s): 6242767-6242770 UNSPK: 6242770 BKG: 6242770								
Aluminum	1238 (2)	890 (2)	75-125	7	20	8,200	9,610	16	20
Boron	100	98	84-115	1	20	23.3	24.3	5 (1)	20
Calcium	-188 (2)	365 (2)	75-125	4	20	51,400	52,000	1	20
Iron	11127 (2)	10148 (2)	75-125	2	20	36,600	40,400	10	20
Lithium	106	107	82-114	1	20	16.4	18.6	13	20
Magnesium	1343 (2)	572 (2)	75-125	20	20	5,830	6,850	16	20
Manganese	150 (2)	145 (2)	75-125	0	20	483	492	2	20
Phosphorus	-57 (2)	-22 (2)	75-125	7	20	569	401	34*	20
Potassium	116	125	75-125	3	20	2,030	2,280	12	20
Sodium	102	107	75-125	3	20	304	292	4 (1)	20
Strontium	87	84	75-115	2	20	82.7	67.9	20	20
Tin	91	97	80-110	6	20	35.9	40.3	11 (1)	20
Titanium	126 (2)	262 (2)	75-125	16	20	677	767	12	20
Zirconium	93	98	75-125	5	20	2.94 J	5.19	55* (1)	20
Batch number: 110895711004	Sample number(s): 6242767-6242770 UNSPK: 6242770 BKG: 6242770								
Mercury	39*	21*	65-135	8	20	0.317	0.212	40* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11097097201A	Sample number(s): 6242767-6242770 UNSPK: 6242767 BKG: 6242767										
7a Perchlorate EPA 314.0	99		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11097102201A	Sample number(s): 6242767-6242769 UNSPK: P240607 BKG: P240607										
17a Cyanide by 9012B	103		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11097102201B	Sample number(s): 6242770 UNSPK: 6242770 BKG: 6242770										
17a Cyanide by 9012B	108		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11102102201A	Sample number(s): 6242767-6242770 UNSPK: P241846 BKG: P241846										
11a Anions by 300.0 - Fluoride	57*		80-120			1.8		1.3		32* (1)	20
11a Anions by 300.0 - Nitrate	109		80-120			1.1	J	1.1	J	4 (1)	20
Batch number: 11103243201A	Sample number(s): 6242767-6242770 UNSPK: P244296 BKG: P244296										
3a Cr VI by EPA 7199	92		75-125			0.20	U	0.42	J	200* (1)	20
Batch number: 11094039402A	Sample number(s): 6242767-6242770 BKG: P247208										
18a pH by 9045C						6.37		6.32		1	1
Batch number: 11094182102A	Sample number(s): 6242767-6242770 BKG: P247208										
32a OR Potential						491		499		2	6
Batch number: 11102162401A	Sample number(s): 6242767-6242770 BKG: 6242769										
Moisture Content by 160.3						13.3		13.7		3	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110911AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6242767	98	98	99	92
6242768	97	96	100	92
6242769	98	102	98	93
6242770	98	100	101	89
Blank	99	99	99	93
LCS	99	104	102	98
LCSD	99	104	101	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110891AA

	Toluene-d8
6242767	97
6242768	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Surrogate Quality Control

6242769	97
6242770	97
Blank	97
LCS	97
LCSD	97
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110901AA

	Toluene-d8
6242771	99
6242772	99
Blank	99
LCS	99
LCSD	99
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110942AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6242771	107	102	100	95
6242772	108	103	100	94
Blank	108	102	98	93
LCS	106	104	100	98
LCSD	106	101	100	97
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11090WAG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6242771	109	94	107
Blank	89	84	100
LCS	107	99	106
LCSD	106	96	105
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11092SLB026

	N-Nitrosodimethylamine-d6
6242767	107
6242768	103
6242769	111
6242770	113
Blank	94
LCS	96
MS	94
MSD	102

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Surrogate Quality Control

Limits: 50-150

Analysis Name: 15b NDMA by 1625C
Batch number: 11092WAD026

	N-Nitrosodimethylamine-d6
6242771	125
Blank	109
LCS	106
LCSD	103
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11094SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6242767	91	92	87
6242768	88	88	85
6242769	85	87	85
6242770	102	99	90
Blank	109	107	113
LCS	97	92	88
MS	94	96	87
MSD	93	94	81
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11094WAD026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6242771	59	35	96	87	92	85
Blank	59	37	100	92	96	88
LCS	66	43	92	94	99	89
LCSD	69	44	97	94	100	89
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11095SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6242767	84	90	88	81	88	88
6242768	82	88	86	81	86	87
6242769	73	78	77	73	77	78
6242770	88	93	82	86	97	83
Blank	83	90	93	86	93	86
LCS	88	95	92	89	97	92
MS	86	93	90	87	93	90
MSD	89	95	87	87	93	89
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11091A34A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Surrogate Quality Control

	Trifluorotoluene-F
6242767	78
6242768	73
6242769	77
6242770	80
Blank	80
LCS	85
MS	79
MSD	85
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11094A20A

	Trifluorotoluene-F
6242771	77
6242772	76
Blank	75
LCS	112
LCSD	115
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110900006A

	Butyraldehyde
6242767	89
6242768	86
6242769	101
6242770	95
Blank	100
LCS	98
MS	92
MSD	101
Limits:	64-126

Analysis Name: 25b Formaldehyde 8315A
Batch number: 110900027A

	Butyraldehyde
6242771	98
Blank	101
LCS	96
LCSD	100
Limits:	45-145

Analysis Name: 16a Energetics by 8330A
Batch number: 110900050A

	2-Nitro-m-xylene
6242767	107
6242768	106

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Quality Control Summary

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Reported: 04/20/11 at 09:56 AM

Surrogate Quality Control

6242769	111
6242770	108
Blank	116
LCS	113
LCSD	108
MS	105
MSD	113
Limits:	80-146

Analysis Name: 16b Energetics by 8330A
Batch number: 110900054A

	2-Nitro-m-xylene
6242771	94
Blank	91
LCS	93
LCSD	95
Limits:	50-134

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110940029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6242771	104	106
Blank	102	91
LCS	108	91
LCSD	94	89
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110940035A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6242767	94	110
6242768	89	103
6242769	96	101
6242770	98	114
Blank	86	101
LCS	92	109
LCSD	93	110
MS	90	102
MSD	83	103
Limits:	53-139	45-120

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 110890026A

	Chlorobenzene	Orthoterphenyl
6242771	62	107
Blank	64	98
LCS	55	97
LCSD	48	102

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Surrogate Quality Control

Limits: 28-152 52-131

Analysis Name: 20b Terphenyls by 8015B
Batch number: 110900003A

	n-Triacontane-d62
6242771	73
Blank	69
LCS	73
LCSD	75

Limits: 50-150

Analysis Name: 21a Glycols by 8015B
Batch number: 110900014A

	Tetramethylene glycol
6242767	74
6242768	45
6242769	72
6242770	82
Blank	101
LCS	100
MS	88
MSD	83

Limits: 29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110900035A

	Chlorobenzene	Orthoterphenyl
6242767	75	85
6242768	84	89
6242769	81	87
6242770	85	95
Blank	90	99
LCS	86	97
MS	90	92
MSD	85	94

Limits: 37-125 47-145

Analysis Name: 19a Alcohols by 8015B
Batch number: 110900036A

	Acetone
6242767	81
6242768	76
6242769	78
6242770	78
Blank	95
LCS	93
MS	79
MSD	76

Limits: 42-138

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239542
Reported: 04/20/11 at 09:56 AM

Surrogate Quality Control

Analysis Name: 19b Alcohols by 8015B
Batch number: 110910017A

	Acetone
6242771	103
Blank	101
LCS	99
MS	98
MSD	101
Limits:	54-147

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110920003A

	n-Triacontane-d62
6242767	73
6242768	70
6242769	69
6242770	83
Blank	69
LCS	68
MS	72
MSD	88
Limits:	50-150

Analysis Name: 21b Glycols by 8015B
Batch number: 110940001A

	Tetramethylene glycol
6242771	81
Blank	84
LCS	105
MS	103
MSD	100
Limits:	77-119

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acct#13013 Cp#1239542 sample#6242767-72

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: AMCortes

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-091-SA5A-SB-3.5	03.29.11	1055	SOIL	NONE	5-Encores										X	X	X										
SL-091-SA5A-SB-3.0-4.0	03.29.11	1059	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-208-SA5A-SB-4.5	03.29.11	0845	SOIL	NONE	5-Encores										X	X	X										
SL-208-SA5A-SB-4.0-5.0	03.29.11	0850	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-208-SA5A-SB-8.0	03.29.11	0855	SOIL	NONE	5-Encores										X	X	X										
SL-208-SA5A-SB-7.5-8.5	03.29.11	0900	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-221-SA5A-SB-3.5	03.29.11	1417	SOIL	NONE	5-Encores										X	X	X										
SL-221-SA5A-SB-3.0-4.0	03.29.11	1419	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB10-SA5A-032911	03.29.11	0930	WATER	NONE	10-1L amber bottles			X	X	X								X			X	X		X			2 extra for backup
EB10-SA5A-032911	03.29.11	0930	WATER	HCL	11-40mL VOA vials										X	X	X									X	
EB10-SA5A-032911	03.29.11	0930	WATER	NONE	1-500mL poly		X				X	X	X														
EB10-SA5A-032911	03.29.11	0930	WATER	HNO3	1-500mL poly	X																					
EB10-SA5A-032911	03.29.11	0930	WATER	NONE	4-40mL VOA vials														X						X		
EB10-SA5A-032911	03.29.11	0930	WATER	NONE	1-250mL glass															X							
EB10-SA5A-032911	03.29.11	0930	WATER	NaOH	1-500mL poly																		X				
TB-032911	03.29.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	03/29/2011 / 1700	3/30/11 930	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1432 3817,4112	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/30/2011
Group Number: 1239544
SDG: DX065
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-091-SA5A-SB-3.0-4.0 Soil	6242774
SL-208-SA5A-SB-4.0-5.0 Soil	6242775
SL-208-SA5A-SB-7.5-8.5 Soil	6242776
SL-221-SA5A-SB-3.0-4.0 Soil	6242777
EB10-SA5A-032911 Water	6242778

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-091-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5A-SB-3.0-4.0

LLI Sample # SW 6242774
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 10:59

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6507 SDG#: DX065-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5A-SB-3.0-4.0

LLI Sample # SW 6242774
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 10:59

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6507 SDG#: DX065-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0494	JQ	0.0326	1.11	1
11031	12378-PeCDD	40321-76-4	0.144	JB	0.0293	5.55	1
11031	123478-HxCDD	39227-28-6	0.115	JB	0.0259	5.55	1
11031	123678-HxCDD	57653-85-7	0.154	JB	0.0251	5.55	1
11031	123789-HxCDD	19408-74-3	0.284	JB	0.0222	5.55	1
11031	1234678-HpCDD	35822-46-9	0.239	JB	0.0225	5.55	1
11031	OCDD	3268-87-9	1.45	JB	0.0199	11.1	1
11031	2378-TCDF	51207-31-9	0.0499	JBQ	0.0307	1.11	1
11031	12378-PeCDF	57117-41-6	0.179	JB	0.0149	5.55	1
11031	23478-PeCDF	57117-31-4	0.193	JBQ	0.0148	5.55	1
11031	123478-HxCDF	70648-26-9	0.236	JB	0.0267	5.55	1
11031	123678-HxCDF	57117-44-9	0.148	JBQ	0.0193	5.55	1
11031	123789-HxCDF	72918-21-9	0.223	JB	0.0158	5.55	1
11031	234678-HxCDF	60851-34-5	0.123	JBQ	0.0141	5.55	1
11031	1234678-HpCDF	67562-39-4	0.169	JBQ	0.0115	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0698	JBQ	0.0108	5.55	1
11031	OCDF	39001-02-0	0.191	JBQ	0.0248	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5A-SB-3.0-4.0

LLI Sample # SW 6242774
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 10:59

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6507 SDG#: DX065-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-091-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5A-SB-3.0-4.0

LLI Sample # SW 6242774
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 10:59

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6507 SDG#: DX065-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 08:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-208-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-4.0-5.0

LLI Sample # SW 6242775
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:50

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6508 SDG#: DX065-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-208-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-4.0-5.0

LLI Sample # SW 6242775
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:50

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6508 SDG#: DX065-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0991	JQ	0.0342	1.13	1
11031	12378-PeCDD	40321-76-4	0.147	JB	0.0288	5.66	1
11031	123478-HxCDD	39227-28-6	0.103	JB	0.0297	5.66	1
11031	123678-HxCDD	57653-85-7	0.141	JB	0.0285	5.66	1
11031	123789-HxCDD	19408-74-3	0.244	JBQ	0.0263	5.66	1
11031	1234678-HpCDD	35822-46-9	0.220	JB	0.0232	5.66	1
11031	OCDD	3268-87-9	0.660	JBQ	0.0226	11.3	1
11031	2378-TCDF	51207-31-9	0.0611	JB	0.0330	1.13	1
11031	12378-PeCDF	57117-41-6	0.189	JBQ	0.0153	5.66	1
11031	23478-PeCDF	57117-31-4	0.158	JBQ	0.0151	5.66	1
11031	123478-HxCDF	70648-26-9	0.172	JBQ	0.0286	5.66	1
11031	123678-HxCDF	57117-44-9	0.164	JBQ	0.0193	5.66	1
11031	123789-HxCDF	72918-21-9	0.108	JBQ	0.0152	5.66	1
11031	234678-HxCDF	60851-34-5	0.0980	JB	0.0133	5.66	1
11031	1234678-HpCDF	67562-39-4	0.140	JB	0.0133	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0635	JBQ	0.0119	5.66	1
11031	OCDF	39001-02-0	0.183	JBQ	0.0226	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	98	23 - 140
13C12-OCDD	106	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	93	26 - 138
13C12-OCDF	90	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-208-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-4.0-5.0

LLI Sample # SW 6242775
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:50

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6508 SDG#: DX065-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-208-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-4.0-5.0

LLI Sample # SW 6242775
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 08:50

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6508 SDG#: DX065-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 09:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-208-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-7.5-8.5

LLI Sample # SW 6242776
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:00

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6509 SDG#: DX065-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-208-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-7.5-8.5

LLI Sample # SW 6242776
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:00

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6509 SDG#: DX065-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0684 JQ	0.0331	1.15	1
11031	12378-PeCDD	40321-76-4	0.151 JBQ	0.0301	5.76	1
11031	123478-HxCDD	39227-28-6	0.159 JB	0.0260	5.76	1
11031	123678-HxCDD	57653-85-7	0.0833 JBQ	0.0232	5.76	1
11031	123789-HxCDD	19408-74-3	0.137 JBQ	0.0196	5.76	1
11031	1234678-HpCDD	35822-46-9	0.251 JB	0.0220	5.76	1
11031	OCDD	3268-87-9	0.588 JB	0.0179	11.5	1
11031	2378-TCDF	51207-31-9	0.0378 JBQ	0.0287	1.15	1
11031	12378-PeCDF	57117-41-6	0.146 JB	0.0145	5.76	1
11031	23478-PeCDF	57117-31-4	0.155 JBQ	0.0149	5.76	1
11031	123478-HxCDF	70648-26-9	0.209 JB	0.0403	5.76	1
11031	123678-HxCDF	57117-44-9	0.181 JB	0.0278	5.76	1
11031	123789-HxCDF	72918-21-9	0.124 JB	0.0179	5.76	1
11031	234678-HxCDF	60851-34-5	0.141 JB	0.0159	5.76	1
11031	1234678-HpCDF	67562-39-4	0.353 JB	0.0183	5.76	1
11031	1234789-HpCDF	55673-89-7	0.0947 JB	0.0141	5.76	1
11031	OCDF	39001-02-0	0.302 JBQ	0.0299	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	62	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	30	26 - 152
13C12-123678-HxCDF	42	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	50	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-208-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-7.5-8.5

LLI Sample # SW 6242776
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:00

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6509 SDG#: DX065-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-208-SA5A-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5A-SB-7.5-8.5

LLI Sample # SW 6242776
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:00

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6509 SDG#: DX065-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 13:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-221-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-221-SA5A-SB-3.0-4.0

LLI Sample # SW 6242777
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 14:19

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6510 SDG#: DX065-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-221-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-221-SA5A-SB-3.0-4.0

LLI Sample # SW 6242777
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 14:19

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6510 SDG#: DX065-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	7.81		0.148	1.17	1
11031	12378-PeCDD	40321-76-4	41.0	B	0.131	5.86	1
11031	123478-HxCDD	39227-28-6	45.1		0.123	5.86	1
11031	123678-HxCDD	57653-85-7	104	B	0.127	5.86	1
11031	123789-HxCDD	19408-74-3	82.1	B	0.121	5.86	1
11031	1234678-HpCDD	35822-46-9	1,810	B	0.190	5.86	1
11031	OCDD	3268-87-9	6,490	EB	0.127	11.7	1
11031	2378-TCDF	51207-31-9	52.9		0.264	1.17	1
11650	2378-TCDF-Conf	51207-31-9	56.5		0.115	1.17	1
11031	12378-PeCDF	57117-41-6	59.9	B	0.0677	5.86	1
11031	23478-PeCDF	57117-31-4	117	B	0.0677	5.86	1
11031	123478-HxCDF	70648-26-9	121	B	0.0999	5.86	1
11031	123678-HxCDF	57117-44-9	108	B	0.0918	5.86	1
11031	123789-HxCDF	72918-21-9	28.7	B	0.102	5.86	1
11031	234678-HxCDF	60851-34-5	136	B	0.0912	5.86	1
11031	1234678-HpCDF	67562-39-4	493	B	0.0760	5.86	1
11031	1234789-HpCDF	55673-89-7	40.0	B	0.0919	5.86	1
11031	OCDF	39001-02-0	285	B	0.0519	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-2378-TCDF-Conf	65	24 - 169
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-221-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-221-SA5A-SB-3.0-4.0

LLI Sample # SW 6242777
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 14:19

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6510 SDG#: DX065-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-221-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-221-SA5A-SB-3.0-4.0

LLI Sample # SW 6242777
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 14:19

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6510 SDG#: DX065-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105001	04/18/2011 13:41	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11105001	04/22/2011 09:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11105001	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

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Analysis Report

Sample Description: **EB10-SA5A-032911 Water**
SSFL Area IV Collocated Soil Sampling
EB10-SA5A-032911

LLI Sample # WW 6242778
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:30

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6511 SDG#: DX065-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.234	U	0.234	2.03	1
10915	12378-PeCDD	40321-76-4	0.677	JBQ	0.222	10.2	1
10915	123478-HxCDD	39227-28-6	0.242	JB	0.190	10.2	1
10915	123678-HxCDD	57653-85-7	0.605	JBQ	0.187	10.2	1
10915	123789-HxCDD	19408-74-3	0.453	JB	0.186	10.2	1
10915	1234678-HpCDD	35822-46-9	1.95	JBQ	0.257	10.2	1
10915	OCDD	3268-87-9	3.59	JB	0.282	20.3	1
10915	2378-TCDF	51207-31-9	0.222	U	0.222	2.03	1
10915	12378-PeCDF	57117-41-6	0.426	JB	0.120	10.2	1
10915	23478-PeCDF	57117-31-4	0.826	JBQ	0.116	10.2	1
10915	123478-HxCDF	70648-26-9	0.797	JB	0.141	10.2	1
10915	123678-HxCDF	57117-44-9	0.466	JB	0.115	10.2	1
10915	123789-HxCDF	72918-21-9	0.611	JBQ	0.121	10.2	1
10915	234678-HxCDF	60851-34-5	0.579	JBQ	0.111	10.2	1
10915	1234678-HpCDF	67562-39-4	0.921	JB	0.113	10.2	1
10915	1234789-HpCDF	55673-89-7	0.463	JB	0.128	10.2	1
10915	OCDF	39001-02-0	0.386	U	0.386	20.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB10-SA5A-032911 Water**
SSFL Area IV Collocated Soil Sampling
EB10-SA5A-032911

LLI Sample # WW 6242778
LLI Group # 1239544
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2011 09:30

Submitted: 03/30/2011 09:30
Reported: 05/09/2011 23:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6511 SDG#: DX065-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11096001	04/07/2011 22:42	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11096001	04/06/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239544
Reported: 05/09/11 at 11:44 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11102162401A	Sample number(s): 6242774-6242777									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11095001	Sample number(s): 6242774-6242776									
2378-TCDD	0.0273	U	0.0273	1.00	ng/kg	98		67-158		
12378-PeCDD	0.131	J	0.0316	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0888	J	0.0197	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0837	J	0.0197	5.00	ng/kg	105		76-134		
123789-HxCDD	0.115	J	0.0192	5.00	ng/kg	105		64-162		
1234678-HpCDD	0.280	J	0.0231	5.00	ng/kg	104		70-140		
OCDD	1.16	J	0.0205	10.0	ng/kg	102		78-144		
2378-TCDF	0.0414	J	0.0248	1.00	ng/kg	113		75-158		
12378-PeCDF	0.130	J	0.0133	5.00	ng/kg	103		80-134		
23478-PeCDF	0.187	J	0.0130	5.00	ng/kg	104		68-160		
123478-HxCDF	0.170	J	0.0200	5.00	ng/kg	103		72-134		
123678-HxCDF	0.123	J	0.0163	5.00	ng/kg	106		84-130		
123789-HxCDF	0.140	J	0.0167	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0964	J	0.0153	5.00	ng/kg	104		70-156		
1234678-HpCDF	0.140	J	0.0103	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.105	J	0.0134	5.00	ng/kg	104		78-138		
OCDF	0.274	J	0.0243	10.0	ng/kg	104		63-170		
Batch number: 11096001	Sample number(s): 6242778									
2378-TCDD	0.284	U	0.284	2.00	pg/l	100		67-158		
12378-PeCDD	1.24	J	0.296	10.0	pg/l	103		70-142		
123478-HxCDD	0.912	J	0.232	10.0	pg/l	103		70-164		
123678-HxCDD	1.14	J	0.237	10.0	pg/l	103		76-134		
123789-HxCDD	0.734	J	0.227	10.0	pg/l	102		64-162		
1234678-HpCDD	2.46	J	0.299	10.0	pg/l	101		70-140		
OCDD	5.27	J	0.353	20.0	pg/l	103		78-144		
2378-TCDF	0.281	J	0.269	2.00	pg/l	102		75-158		
12378-PeCDF	0.902	J	0.163	10.0	pg/l	97		80-134		
23478-PeCDF	1.07	J	0.159	10.0	pg/l	100		68-160		
123478-HxCDF	0.954	J	0.197	10.0	pg/l	100		72-134		
123678-HxCDF	0.764	J	0.172	10.0	pg/l	101		84-130		
123789-HxCDF	0.993	J	0.172	10.0	pg/l	98		78-130		
234678-HxCDF	0.783	J	0.153	10.0	pg/l	100		70-156		
1234678-HpCDF	1.36	J	0.149	10.0	pg/l	102		82-122		
1234789-HpCDF	1.23	J	0.158	10.0	pg/l	102		78-138		
OCDF	2.34	J	0.424	20.0	pg/l	101		63-170		
Batch number: 11105001	Sample number(s): 6242777									
2378-TCDD	0.0188	U	0.0188	1.00	ng/kg	90		67-158		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239544
Reported: 05/09/11 at 11:44 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
12378-PeCDD	0.0338 J	0.0193	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0154 U	0.0154	5.00	ng/kg	93		70-164		
123678-HxCDD	0.0256 J	0.0164	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0539 J	0.0154	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.347 J	0.0204	5.00	ng/kg	92		70-140		
OCDD	0.581 J	0.0180	10.0	ng/kg	91		78-144		
2378-TCDF	0.0204 U	0.0204	1.00	ng/kg	104		75-158		
2378-TCDF-Conf	0.0470 U	0.0470	1.00	ng/kg					
12378-PeCDF	0.0319 J	0.00940	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0552 J	0.0105	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0467 J	0.0140	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0341 J	0.0107	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0443 J	0.0163	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0734 J	0.0120	5.00	ng/kg	90		70-156		
1234678-HpCDF	0.160 J	0.00650	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.108 J	0.0135	5.00	ng/kg	92		78-138		
OCDF	0.263 J	0.0245	10.0	ng/kg	90		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11102162401A	Sample number(s): 6242774-6242777					BKG: P242769			
Moisture Content by 160.3						13.3	13.7	3	20
Batch number: 11095001	Sample number(s): 6242774-6242776					UNSPK: P244313			
2378-TCDD	80	79	67-158	1	25				
12378-PeCDD	73	70	70-142	3	25				
123478-HxCDD	70	68*	70-164	2	25				
123678-HxCDD	27*	20*	76-134	6	25				
123789-HxCDD	49*	44*	64-162	6	25				
1234678-HpCDD	-652 (2)	-723 (2)	70-140	50*	25				
OCDD	-897 (2)	-1012 (2)	78-144	71*	25				
2378-TCDF	-124*	-134*	75-158	9	25				
12378-PeCDF	23*	21*	80-134	2	25				
23478-PeCDF	-66*	-69*	68-160	2	25				
123478-HxCDF	-100*	-104*	72-134	4	25				
123678-HxCDF	-75*	-79*	84-130	4	25				
123789-HxCDF	29*	27*	78-130	2	25				
234678-HxCDF	-232*	-236*	70-156	4	25				
1234678-HpCDF	-775 (2)	-786 (2)	82-122	9	25				
1234789-HpCDF	-20*	-19*	78-138	1	25				
OCDF	-179*	-184*	63-170	5	25				

Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239544
Reported: 05/09/11 at 11:44 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11095001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6242774	74	73	40	56	72	75
6242775	77	85	39	57	83	84
6242776	74	75	30	42	74	77
Blank	73	75	59	71	76	77
MS	83	85	47	66	78	84
MSD	68	79	53	68	72	72
OPR	75	71	44	62	73	78
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6242774	65	79	76	86	77	70
6242775	68	93	90	99	90	76
6242776	50	80	75	91	82	62
Blank	87	77	79	95	80	79
MS	76	81	86	94	90	79
MSD	88	72	71	89	82	74
OPR	70	70	67	88	75	75
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6242774	74	80	88	94	68	78
6242775	82	89	98	106	74	89
6242776	70	80	88	95	73	84
Blank	81	82	89	94	71	80
MS	82	83	93	100	79	92
MSD	75	80	84	87	63	78
OPR	78	78	82	80	70	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6242774	
6242775	
6242776	
Blank	66
MS	
MSD	
OPR	
Limits:	24-169

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11096001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239544
Reported: 05/09/11 at 11:44 PM

Surrogate Quality Control

6242778	77	70	56	66	71	74
Blank	82	71	59	65	72	73
OPR	81	75	54	64	79	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6242778	63	64	49	88	76	74
Blank	62	68	62	93	79	74
OPR	65	78	75	88	81	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6242778	76	75	73	65	75	71
Blank	76	77	72	66	78	75
OPR	78	83	82	80	79	78
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11105001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6242777	74	70	65	69	70	70
Blank	71	59	58	73	62	53
OPR	66	57	53	68	59	50
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6242777	74	70	69	86	74	72
Blank	91	50	49	90	71	78
OPR	84	47	46	87	67	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6242777	74	75	92	83	73	75
Blank	75	79	77	75	61	71
OPR	71	72	72	70	59	67
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
	13C12-2378-TCDF-Conf					
6242777	65					
Blank	60					
OPR						

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239544
Reported: 05/09/11 at 11:44 PM

Surrogate Quality Control

Limits: 24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp# 1239544 sample# 6242714-78

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: AMCortes

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-091-SA5A-SB-3.5	03.29.11	1055	SOIL	NONE	5-Encores										X	X	X										
SL-091-SA5A-SB-3.0-4.0	03.29.11	1059	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-208-SA5A-SB-4.5	03.29.11	0845	SOIL	NONE	5-Encores										X	X	X										
SL-208-SA5A-SB-4.0-5.0	03.29.11	0850	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-208-SA5A-SB-8.0	03.29.11	0855	SOIL	NONE	5-Encores										X	X	X										
SL-208-SA5A-SB-7.5-8.5	03.29.11	0900	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-221-SA5A-SB-3.5	03.29.11	1417	SOIL	NONE	5-Encores										X	X	X										
SL-221-SA5A-SB-3.0-4.0	03.29.11	1419	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB10-SA5A-032911	03.29.11	0930	WATER	NONE	10-1L amber bottles			X	X	X								X			X	X		X			2 extra for backup
EB10-SA5A-032911	03.29.11	0930	WATER	HCL	11-40mL VOA vials										X	X	X									X	
EB10-SA5A-032911	03.29.11	0930	WATER	NONE	1-500mL poly		X				X	X	X														
EB10-SA5A-032911	03.29.11	0930	WATER	HNO3	1-500mL poly	X																					
EB10-SA5A-032911	03.29.11	0930	WATER	NONE	4-40mL VOA vials														X						X		
EB10-SA5A-032911	03.29.11	0930	WATER	NONE	1-250mL glass															X							
EB10-SA5A-032911	03.29.11	0930	WATER	NaOH	1-500mL poly																			X			
TB-032911	03.29.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	03/29/2011 / 1700	3/30/11 930	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1432 3817,4112	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/31/2011
Group Number: 1239810
SDG: DE115
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-11-SA5A-QC-033011 Soil	6244289
DUP-12-SA5A-QC-033011 Soil	6244290
SL-082-SA5A-SB-4.0-5.0 Soil	6244291
SL-083-SA5A-SB-4.0-5.0 Soil	6244292
SL-083-SA5A-SB-9.0-10.0 Soil	6244293
SL-090-SA5A-SB-4.0-5.0 Soil	6244294
SL-093-SA5A-SB-3.5-4.5 Soil	6244295
SL-222-SA5A-SB-3.5-4.5 Soil	6244296
SL-222-SA5A-SB-3.5-4.5MS Soil	6244297
SL-222-SA5A-SB-3.5-4.5MSD Soil	6244298
SL-222-SA5A-SB-3.5-4.5DUP Soil	6244299
SL-257-SA5A-SB-2.5-3.5 Soil	6244300
TB-033011 Water	6244301

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-11-SA5A-QC-033011 Soil
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5A-QC-033011

LLI Sample # SW 6244289
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 10:02

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP11 SDG#: DE115-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.89
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.89
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.89
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.89
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.89
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.89
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.89
06192	Methylene Chloride	75-09-2	2.7	J	0.24	4.0		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.89

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-11-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5A-QC-033011

LLI Sample # SW 6244289
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 10:02

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP11 SDG#: DE115-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.89
06192	Toluene	108-88-3	0.09	J	0.08	4.0		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.37
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.3	U	18.3	36.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

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Sample Description: **DUP-11-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5A-QC-033011

LLI Sample # SW 6244289
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 10:02

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP11 SDG#: DE115-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.89	J	0.73	1.8		1

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Sample Description: **DUP-11-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5A-QC-033011

LLI Sample # SW 6244289
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 10:02

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP11 SDG#: DE115-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	1.4	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.6	20		1
10138	Phenanthrene	85-01-8	1.3	J	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.33
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1

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Sample Description: **DUP-11-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5A-QC-033011

LLI Sample # SW 6244289
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 10:02

Submitted: 03/31/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP11 SDG#: DE115-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	32		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	3.4		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	13		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.73	J	0.44	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1

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Sample Description: **DUP-11-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5A-QC-033011

LLI Sample # SW 6244289
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 10:02

Submitted: 03/31/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP11 SDG#: DE115-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		5.42	21.6		1
07914	Boron	7440-42-8	4.56	J	0.959	5.39		1
01650	Calcium	7440-70-2	3,590		6.61	21.6		1
01654	Iron	7439-89-6	22,200		5.08	21.6		1
01656	Lithium	7439-93-2	27.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,500		2.74	10.8		1
06958	Manganese	7439-96-5	328		0.0840	0.539		1
10145	Phosphorus	7723-14-0	405		0.603	10.8		1
01662	Potassium	7440-09-7	3,100		19.4	53.9		1
01667	Sodium	7440-23-5	88.4	J	40.2	108		1
07968	Strontium	7440-24-6	13.6		0.0668	0.539		1
06969	Tin	7440-31-5	3.29	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,290		0.409	1.08		1
10146	Zirconium	7440-67-7	3.65	J	0.905	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.112	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.68		0.0862	0.431		2
06126	Barium	7440-39-3	74.0		0.116	0.431		2
06127	Beryllium	7440-41-7	0.456		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.145		0.0431	0.108		2
06131	Chromium	7440-47-3	14.4		0.129	0.431		2
06132	Cobalt	7440-48-4	5.53		0.0216	0.108		2
06133	Copper	7440-50-8	8.97		0.0711	0.431		2
06135	Lead	7439-92-1	4.65		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.379		0.0539	0.108		2
06139	Nickel	7440-02-0	8.94		0.108	0.431		2
06141	Selenium	7782-49-2	0.105	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0313	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.229		0.0323	0.108		2
06148	Vanadium	7440-62-2	34.3		0.0237	0.108		2
06149	Zinc	7440-66-6	57.2		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1

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Sample Description: **DUP-11-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5A-QC-033011

LLI Sample # SW 6244289
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 10:02

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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DUP11 SDG#: DE115-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	380		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from DUP-11-SA5A-QC-033011.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011	16:43	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110911AA	04/01/2011	11:28	Jason M Long	21.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011	18:59	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109023985	03/31/2011	19:53	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109023985	03/31/2011	19:54	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109023985	03/31/2011	18:57	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/15/2011	14:37	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011	06:53	Ryan P Byrne	1

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Sample Description: **DUP-11-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5A-QC-033011

LLI Sample # SW 6244289
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 10:02

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP11 SDG#: DE115-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011 02:57	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011 08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 20:33	Elizabeth J Marin	21.33
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 21:51	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011 04:45	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/06/2011 22:33	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 03:59	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110920013A	04/06/2011 04:04	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	03/31/2011 23:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011 18:27	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 10:58	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110920013A	04/04/2011 17:10	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 04:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:15	Choon Y Tian	2

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Sample Description: DUP-11-SA5A-QC-033011 Soil
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5A-QC-033011

LLI Sample # SW 6244289
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 10:02

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP11 SDG#: DE115-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 14:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11103495201A	04/14/2011 11:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11103495201A	04/14/2011 11:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201A	04/12/2011 05:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11103243201A	04/18/2011 20:29	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201A	04/13/2011 20:38	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11103495201A	04/14/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201A	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201A	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101A	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401A	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-12-SA5A-QC-033011 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5A-QC-033011

LLI Sample # SW 6244290
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:11

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP12 SDG#: DE115-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.98
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.98
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.98
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.98
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.98
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.98
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.98
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.98
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		0.98
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		0.98
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.98
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.98
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.98
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.98
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.98
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.98
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.98
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.98
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.98
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.98
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		0.98
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.98
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.98
06192	Methylene Chloride	75-09-2	3.2	J	0.27	4.4		0.98
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.98

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Sample Description: **DUP-12-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5A-QC-033011

LLI Sample # SW 6244290
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:11

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP12 SDG#: DE115-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.98
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.98
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.98
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.98
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.98
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.98
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.98
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.48
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1

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SSFL Area IV Collocated Soil Sampling
DUP-12-SA5A-QC-033011

LLI Sample # SW 6244290
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:11

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP12 SDG#: DE115-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-12-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5A-QC-033011

LLI Sample # SW 6244290
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:11

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP12 SDG#: DE115-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.7	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.9		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		5.60	22.2		1
07914	Boron	7440-42-8	4.01	J	0.990	5.56		1
01650	Calcium	7440-70-2	3,290		6.82	22.2		1
01654	Iron	7439-89-6	20,600		5.24	22.2		1
01656	Lithium	7439-93-2	23.9		0.24	2.2		1
01657	Magnesium	7439-95-4	4,730		2.83	11.1		1
06958	Manganese	7439-96-5	283		0.0868	0.556		1
10145	Phosphorus	7723-14-0	403		0.623	11.1		1
01662	Potassium	7440-09-7	3,280		20.0	55.6		1
01667	Sodium	7440-23-5	97.4	J	41.5	111		1
07968	Strontium	7440-24-6	16.8		0.0690	0.556		1
06969	Tin	7440-31-5	3.19	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,280		0.423	1.11		1
10146	Zirconium	7440-67-7	3.25	J	0.934	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.190	J	0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.09		0.0864	0.432		2
06126	Barium	7440-39-3	77.6		0.117	0.432		2
06127	Beryllium	7440-41-7	0.463		0.0173	0.108		2

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Sample Description: **DUP-12-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5A-QC-033011

LLI Sample # SW 6244290
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:11

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP12 SDG#: DE115-02FD

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium		7440-43-9	0.150		0.0432	0.108		2
06131	Chromium		7440-47-3	15.1		0.130	0.432		2
06132	Cobalt		7440-48-4	5.06		0.0216	0.108		2
06133	Copper		7440-50-8	10.7		0.0713	0.432		2
06135	Lead		7439-92-1	6.69		0.0112	0.216		2
06138	Molybdenum		7439-98-7	0.436		0.0540	0.108		2
06139	Nickel		7440-02-0	9.30		0.108	0.432		2
06141	Selenium		7782-49-2	0.0916	J	0.0432	0.432		2
06142	Silver		7440-22-4	0.0262	J	0.0130	0.108		2
06145	Thallium		7440-28-0	0.220		0.0324	0.108		2
06148	Vanadium		7440-62-2	33.7		0.0242	0.110		2
06149	Zinc		7440-66-6	64.2		0.605	3.24		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0197	J	0.0031	0.108		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.9		0.90	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.1	U	10.1	33.7		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	384		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.26		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

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Sample Description: DUP-12-SA5A-QC-033011 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5A-QC-033011

LLI Sample # SW 6244290
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Project Name: SSFL Area IV Collocated Soil Sampling

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DUP12 SDG#: DE115-02FD

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from DUP-12-SA5A-QC-033011.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011 17:06	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110911AA	04/01/2011 11:48	Jason M Long	21.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 19:04	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109023985	03/31/2011 19:54	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109023985	03/31/2011 19:54	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109023985	03/31/2011 19:02	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011 07:18	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011 03:28	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011 08:00	Olivia Arosemena	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110900028A	04/01/2011 16:03	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 05:32	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110900028A	04/01/2011 09:15	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 04:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:18	Choon Y Tian	2

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Sample Description: **DUP-12-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5A-QC-033011

LLI Sample # SW 6244290
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:11

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP12 SDG#: DE115-02FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 14:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11103495201A	04/14/2011 11:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201A	04/12/2011 05:46	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11103243201A	04/18/2011 20:43	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11103495201A	04/14/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201A	04/07/2011 13:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101A	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401A	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-082-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5A-SB-4.0-5.0

LLI Sample # SW 6244291
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 16:03

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE115-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.88
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.88
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.88
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.88
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.88
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.88
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.88
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.88
06192	Methylene Chloride	75-09-2	2.9	J	0.24	3.9		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.88

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Sample Description: SL-082-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5A-SB-4.0-5.0

LLI Sample # SW 6244291
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 16:03

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE115-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.88
06192	Toluene	108-88-3	0.11	J	0.08	3.9		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.88
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.08
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	184	U	184	369		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1

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Sample Description: SL-082-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5A-SB-4.0-5.0

LLI Sample # SW 6244291
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 16:03

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE115-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.85	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.94	J	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.6	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.6	20		1
10138	Fluoranthene	206-44-0	1.8	J	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1

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Sample Description: **SL-082-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5A-SB-4.0-5.0

LLI Sample # SW 6244291
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 16:03

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE115-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	J	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.6	20		1
10138	Phenanthrene	85-01-8	1.1	J	0.74	1.8		1
10138	Pyrene	129-00-0	1.4	J	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1

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Sample Description: SL-082-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5A-SB-4.0-5.0

LLI Sample # SW 6244291
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 16:03

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE115-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	37		10
10225	Aroclor 5442	12642-23-8	11	U	11	37		10
10225	Aroclor 5460	11126-42-4	11	U	11	37		10
10225	PCB-1016	12674-11-2	3.7	U	3.7	19		10
10225	PCB-1221	11104-28-2	3.7	U	3.7	19		10
10225	PCB-1232	11141-16-5	3.7	U	3.7	19		10
10225	PCB-1242	53469-21-9	3.7	U	3.7	19		10
10225	PCB-1248	12672-29-6	3.7	U	3.7	19		10
10225	PCB-1254	11097-69-1	3.7	U	3.7	19		10
10225	PCB-1260	11096-82-5	14	J	4.4	19		10
10225	PCB-1262	37324-23-5	3.7	U	3.7	19		10
10225	PCB-1268	11100-14-4	3.7	U	3.7	19		10

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	7.3		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	20		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.54	J	0.45	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

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Sample Description: **SL-082-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5A-SB-4.0-5.0

LLI Sample # SW 6244291
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 16:03

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE115-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		5.53	22.0		1
07914	Boron	7440-42-8	2.62	J	0.978	5.50		1
01650	Calcium	7440-70-2	5,900		6.74	22.0		1
01654	Iron	7439-89-6	22,700		5.18	22.0		1
01656	Lithium	7439-93-2	27.0		0.24	2.2		1
01657	Magnesium	7439-95-4	5,590		2.79	11.0		1
06958	Manganese	7439-96-5	305		0.0857	0.550		1
10145	Phosphorus	7723-14-0	454		0.615	11.0		1
01662	Potassium	7440-09-7	3,200		19.8	55.0		1
01667	Sodium	7440-23-5	106	J	41.0	110		1
07968	Strontium	7440-24-6	18.6		0.0681	0.550		1
06969	Tin	7440-31-5	3.24	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,280		0.418	1.10		1
10146	Zirconium	7440-67-7	3.13	J	0.923	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.297		0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.34		0.0888	0.444		2
06126	Barium	7440-39-3	118		0.120	0.444		2
06127	Beryllium	7440-41-7	0.520		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.195		0.0444	0.111		2
06131	Chromium	7440-47-3	19.2		0.133	0.444		2
06132	Cobalt	7440-48-4	6.36		0.0222	0.111		2
06133	Copper	7440-50-8	10.9		0.0733	0.444		2
06135	Lead	7439-92-1	11.8		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.568		0.0555	0.111		2
06139	Nickel	7440-02-0	11.1		0.111	0.444		2
06141	Selenium	7782-49-2	0.111	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0464	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.290		0.0333	0.111		2
06148	Vanadium	7440-62-2	34.0		0.0244	0.111		2
06149	Zinc	7440-66-6	88.2		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0041	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-082-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5A-SB-4.0-5.0

LLI Sample # SW 6244291
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 16:03

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE115-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	393		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.11		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-082-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011 17:28	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110911AA	04/01/2011 12:08	Jason M Long	22.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 19:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109023985	03/31/2011 19:54	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109023985	03/31/2011 19:54	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109023985	03/31/2011 19:06	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/15/2011 14:53	Timothy J Trees	10

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Sample Description: **SL-082-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5A-SB-4.0-5.0

LLI Sample # SW 6244291
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 16:03

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE115-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011	07:43	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011	03:59	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011	07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011	08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011	21:10	Elizabeth J Marin	21.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011	21:52	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011	05:27	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/06/2011	22:42	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011	05:51	Richard A Shober	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011	02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011	09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011	14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110920013A	04/06/2011	05:46	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	03/31/2011	23:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011	18:44	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011	08:43	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110920013A	04/04/2011	17:10	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011	19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011	14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011	16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011	04:16	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011	11:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011	11:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011	11:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011	11:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011	11:27	Choon Y Tian	2

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Sample Description: **SL-082-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5A-SB-4.0-5.0

LLI Sample # SW 6244291
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 16:03

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE115-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11103495201A	04/14/2011 11:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11103495201A	04/14/2011 11:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201A	04/12/2011 06:09	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11103243201A	04/18/2011 20:58	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201A	04/13/2011 20:39	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11103495201A	04/14/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201A	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201A	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101A	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401A	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-083-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-4.0-5.0

LLI Sample # SW 6244292
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:08

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL834 SDG#: DE115-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.4		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.98
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.98
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.98
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.98
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.98
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.98
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.98
06192	Methylene Chloride	75-09-2	2.9	J	0.25	4.2		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.98

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-4.0-5.0

LLI Sample # SW 6244292
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:08

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL834 SDG#: DE115-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.98
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.69
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.7	U	17.7	35.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1

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SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-4.0-5.0

LLI Sample # SW 6244292
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.43	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1

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SL-083-SA5A-SB-4.0-5.0

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LLI Group # 1239810
Account # 13013

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SL834 SDG#: DE115-04

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GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	13	J	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.15
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	1.5		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	8.3		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.54	J	0.43	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,500		5.30	21.1		1

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Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	2.76	J	0.938	5.27		1
01650	Calcium	7440-70-2	6,480		6.46	21.1		1
01654	Iron	7439-89-6	20,000		4.97	21.1		1
01656	Lithium	7439-93-2	26.0		0.23	2.1		1
01657	Magnesium	7439-95-4	5,240		2.68	10.5		1
06958	Manganese	7439-96-5	275		0.0822	0.527		1
10145	Phosphorus	7723-14-0	345		0.590	10.5		1
01662	Potassium	7440-09-7	2,520		19.0	52.7		1
01667	Sodium	7440-23-5	209		39.3	105		1
07968	Strontium	7440-24-6	17.8		0.0654	0.527		1
06969	Tin	7440-31-5	3.08	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,120		0.401	1.05		1
10146	Zirconium	7440-67-7	2.90	J	0.886	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.57		0.0843	0.422		2
06126	Barium	7440-39-3	81.7		0.114	0.422		2
06127	Beryllium	7440-41-7	0.510		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.133		0.0422	0.105		2
06131	Chromium	7440-47-3	18.0		0.127	0.422		2
06132	Cobalt	7440-48-4	6.47		0.0211	0.105		2
06133	Copper	7440-50-8	7.90		0.0696	0.422		2
06135	Lead	7439-92-1	4.03		0.0110	0.211		2
06138	Molybdenum	7439-98-7	2.03		0.0527	0.105		2
06139	Nickel	7440-02-0	10.2		0.105	0.422		2
06141	Selenium	7782-49-2	0.114	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0398	J	0.0127	0.105		2
06145	Thallium	7440-28-0	0.271		0.0316	0.105		2
06148	Vanadium	7440-62-2	37.1		0.0234	0.106		2
06149	Zinc	7440-66-6	66.3		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	279		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.60		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-083-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011	17:51	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110911AA	04/01/2011	12:28	Jason M Long	22.69
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011	19:13	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109023985	03/31/2011	19:54	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109023985	03/31/2011	19:54	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109023985	03/31/2011	19:11	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/15/2011	15:09	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011	08:08	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011	04:30	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011	07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011	08:00	Olivia Arosemena	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-083-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-4.0-5.0

LLI Sample # SW 6244292
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:08

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL834 SDG#: DE115-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 21:46	Elizabeth J Marin	23.15
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 21:52	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011 06:09	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/06/2011 22:52	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 06:09	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110920013A	04/06/2011 04:30	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	04/01/2011 00:12	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011 19:02	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 00:30	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110920013A	04/04/2011 17:10	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 04:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:30	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-083-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-4.0-5.0

LLI Sample # SW 6244292
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:08

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL834 SDG#: DE115-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11103495201A	04/14/2011 11:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11103495201A	04/14/2011 11:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201A	04/12/2011 06:31	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11103243201A	04/18/2011 21:12	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201A	04/13/2011 20:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11103495201A	04/14/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201A	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201A	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101B	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401B	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-083-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-9.0-10.0

LLI Sample # SW 6244293
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:13

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL839 SDG#: DE115-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.98
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.98
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.98
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.98
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.98
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.98
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.98
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.98
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.98
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.98
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.98
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.98
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.98
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.98
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.98
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.98
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.98
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.98
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.98
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.98
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.98
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.98
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.98
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.98
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.98
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.98
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.98
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.98
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.98
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.98
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.98
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.98
06192	Methylene Chloride	75-09-2	2.7	J	0.24	4.1		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.98

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-083-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-9.0-10.0

LLI Sample # SW 6244293
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:13

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL839 SDG#: DE115-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.98
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.98
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.98
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.98
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.98
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.98
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.98
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		21.97
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.2	U	17.2	34.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1

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Sample Description: SL-083-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-9.0-10.0

LLI Sample # SW 6244293
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:13

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL839 SDG#: DE115-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1

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Sample Description: **SL-083-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-9.0-10.0

LLI Sample # SW 6244293
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:13

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL839 SDG#: DE115-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	10	J	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.22
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	800	U	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	80	U	80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	80	U	80	120	10000000	1
10132	PETN	78-11-5	800	U	800	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	61	U	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1

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SL839 SDG#: DE115-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	620	U	620	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	1.6		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.73	J	0.42	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	13		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	13		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	13		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1

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SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-9.0-10.0

LLI Sample # SW 6244293
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:13

Submitted: 03/31/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL839 SDG#: DE115-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		5.19	20.6		1
07914	Boron	7440-42-8	0.918	U	0.918	5.16		1
01650	Calcium	7440-70-2	3,530		6.32	20.6		1
01654	Iron	7439-89-6	26,600		4.86	20.6		1
01656	Lithium	7439-93-2	29.2		0.23	2.1		1
01657	Magnesium	7439-95-4	6,260		2.62	10.3		1
06958	Manganese	7439-96-5	320		0.0804	0.516		1
10145	Phosphorus	7723-14-0	460		0.578	10.3		1
01662	Potassium	7440-09-7	3,270		18.6	51.6		1
01667	Sodium	7440-23-5	168		38.5	103		1
07968	Strontium	7440-24-6	15.4		0.0639	0.516		1
06969	Tin	7440-31-5	3.37	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,400		0.392	1.03		1
10146	Zirconium	7440-67-7	3.37	J	0.866	5.16		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.159	J	0.0619	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.37		0.0825	0.413		2
06126	Barium	7440-39-3	104		0.111	0.413		2
06127	Beryllium	7440-41-7	0.662		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.192		0.0413	0.103		2
06131	Chromium	7440-47-3	21.9		0.124	0.413		2
06132	Cobalt	7440-48-4	7.23		0.0206	0.103		2
06133	Copper	7440-50-8	10.8		0.0681	0.413		2
06135	Lead	7439-92-1	5.66		0.0107	0.206		2
06138	Molybdenum	7439-98-7	0.516		0.0516	0.103		2
06139	Nickel	7440-02-0	13.4		0.103	0.413		2
06141	Selenium	7782-49-2	0.130	J	0.0413	0.413		2
06142	Silver	7440-22-4	0.0422	J	0.0124	0.103		2
06145	Thallium	7440-28-0	0.335		0.0309	0.103		2
06148	Vanadium	7440-62-2	34.4		0.0222	0.101		2
06149	Zinc	7440-66-6	74.8		0.578	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0040	J	0.0029	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	J	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-083-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-9.0-10.0

LLI Sample # SW 6244293
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:13

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14420 Albemarle Point Place
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SL839 SDG#: DE115-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	375		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.02		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-083-SA5A-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011	18:13	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110911AA	04/01/2011	12:48	Jason M Long	21.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011	19:17	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109023985	03/31/2011	19:54	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109023985	03/31/2011	19:54	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109023985	03/31/2011	19:15	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/15/2011	15:25	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011	08:33	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011	07:51	Joseph M Gambler	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011 08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 22:23	Elizabeth J Marin	24.22
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 21:53	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011 06:52	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/06/2011 23:01	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 06:28	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110920013A	04/06/2011 01:57	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	04/01/2011 00:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011 20:47	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 01:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110920013A	04/04/2011 17:10	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 04:23	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:33	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-9.0-10.0

LLI Sample # SW 6244293
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:13

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL839 SDG#: DE115-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11103495201A	04/14/2011 12:12	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11103495201A	04/14/2011 12:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201A	04/12/2011 06:54	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11103243201A	04/18/2011 21:27	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201A	04/13/2011 20:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11103495201A	04/14/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201A	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201A	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101B	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401B	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-090-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5A-SB-4.0-5.0

LLI Sample # SW 6244294
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:05

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE115-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.9
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.9
06192	Methylene Chloride	75-09-2	2.8	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-090-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5A-SB-4.0-5.0

LLI Sample # SW 6244294
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:05

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE115-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.6
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	183	U	183	366		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-090-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5A-SB-4.0-5.0

LLI Sample # SW 6244294
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:05

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE115-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	1.9		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.1		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.8	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.1		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.6	20		1
10138	Fluoranthene	206-44-0	2.8		0.73	1.8		1
10138	Fluorene	86-73-7	1.1	J	0.73	1.8		1

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Sample Description: **SL-090-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5A-SB-4.0-5.0

LLI Sample # SW 6244294
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:05

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE115-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	25		6.6	20		1
10138	Phenanthrene	85-01-8	2.3		0.73	1.8		1
10138	Pyrene	129-00-0	2.1		0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.78
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-090-SA5A-SB-4.0-5.0

LLI Sample # SW 6244294
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SL090 SDG#: DE115-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.2	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.2	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	5.9		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	29		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.82	J	0.44	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Sample Description: SL-090-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5A-SB-4.0-5.0

LLI Sample # SW 6244294
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:05

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL090 SDG#: DE115-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		5.47	21.7		1
07914	Boron	7440-42-8	3.32	J	0.967	5.43		1
01650	Calcium	7440-70-2	4,050		6.66	21.7		1
01654	Iron	7439-89-6	19,800		5.12	21.7		1
01656	Lithium	7439-93-2	24.5		0.24	2.2		1
01657	Magnesium	7439-95-4	4,630		2.76	10.9		1
06958	Manganese	7439-96-5	300		0.0848	0.543		1
10145	Phosphorus	7723-14-0	371		0.609	10.9		1
01662	Potassium	7440-09-7	2,910		19.6	54.3		1
01667	Sodium	7440-23-5	77.1	J	40.5	109		1
07968	Strontium	7440-24-6	16.1		0.0674	0.543		1
06969	Tin	7440-31-5	3.19	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,180		0.413	1.09		1
10146	Zirconium	7440-67-7	3.74	J	0.913	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.212	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.19		0.0878	0.439		2
06126	Barium	7440-39-3	101		0.119	0.439		2
06127	Beryllium	7440-41-7	0.564		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.219		0.0439	0.110		2
06131	Chromium	7440-47-3	16.5		0.132	0.439		2
06132	Cobalt	7440-48-4	6.20		0.0220	0.110		2
06133	Copper	7440-50-8	9.72		0.0724	0.439		2
06135	Lead	7439-92-1	8.70		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.548		0.0549	0.110		2
06139	Nickel	7440-02-0	10.7		0.110	0.439		2
06141	Selenium	7782-49-2	0.108	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0322	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.263		0.0329	0.110		2
06148	Vanadium	7440-62-2	33.8		0.0239	0.109		2
06149	Zinc	7440-66-6	81.3		0.615	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0556	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.89	1.7		1

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Sample Description: **SL-090-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5A-SB-4.0-5.0

LLI Sample # SW 6244294
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

SL090 SDG#: DE115-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	396		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.26		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-090-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011 18:36	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110911AA	04/01/2011 13:08	Jason M Long	22.6
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 19:21	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109023985	03/31/2011 19:54	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109023985	03/31/2011 19:54	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109023985	03/31/2011 19:19	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/15/2011 15:42	Timothy J Trees	10

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SL090 SDG#: DE115-06

Laboratory Sample Analysis Record

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04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011 08:58	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011 08:22	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011 08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 22:59	Elizabeth J Marin	21.78
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 21:54	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011 07:34	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/06/2011 23:11	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 06:46	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110920013A	04/06/2011 06:11	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	04/01/2011 00:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011 21:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 09:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110920013A	04/04/2011 17:10	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 04:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:36	Choon Y Tian	2

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Sample Description: **SL-090-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5A-SB-4.0-5.0

LLI Sample # SW 6244294
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:05

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14420 Albemarle Point Place
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SL090 SDG#: DE115-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11103495201A	04/14/2011 12:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11103495201A	04/14/2011 12:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201A	04/12/2011 07:16	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11103243201A	04/18/2011 21:41	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201A	04/13/2011 20:42	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11103495201A	04/14/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201A	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201A	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101B	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401B	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-093-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5A-SB-3.5-4.5

LLI Sample # SW 6244295
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 12:20

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL093 SDG#: DE115-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.0	U	8.0	9.5		1.05
06192	Benzene	71-43-2	0.12	J	0.12	4.8		1.05
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.8		1.05
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.8		1.05
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.8		1.05
06192	Bromoform	75-25-2	0.48	U	0.48	4.8		1.05
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8		1.05
06192	2-Butanone	78-93-3	1.5	U	1.5	9.5		1.05
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8		1.05
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8		1.05
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8		1.05
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8		1.05
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8		1.05
06192	Chloroethane	75-00-3	0.15	U	0.15	4.8		1.05
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8		1.05
06192	Chloroform	67-66-3	0.14	U	0.14	4.8		1.05
06192	Chloromethane	74-87-3	0.39	U	0.39	4.8		1.05
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8		1.05
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8		1.05
06192	Chlorotrifluoroethene	79-38-9	0.59	U	0.59	5.9		1.05
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.83	U	0.83	4.8		1.05
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8		1.05
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.8		1.05
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8		1.05
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8		1.05
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8		1.05
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8		1.05
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8		1.05
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8		1.05
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8		1.05
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.8		1.05
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8		1.05
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8		1.05
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.8		1.05
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.8		1.05
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.8		1.05
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.8		1.05
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8		1.05
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.8		1.05
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.8		1.05
06192	Freon 113	76-13-1	0.13	U	0.13	4.8		1.05
06192	Freon 133a	75-88-7	0.59	U	0.59	5.9		1.05
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8		1.05
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.5		1.05
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8		1.05
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8		1.05
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8		1.05
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.5		1.05
06192	Methylene Chloride	75-09-2	3.0	J	0.29	4.8		1.05
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8		1.05

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Sample Description: **SL-093-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5A-SB-3.5-4.5

LLI Sample # SW 6244295
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 12:20

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL093 SDG#: DE115-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.8		1.05
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8		1.05
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.8		1.05
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8		1.05
06192	Toluene	108-88-3	0.11	J	0.1	4.8		1.05
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8		1.05
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.8		1.05
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8		1.05
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.8		1.05
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8		1.05
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.8		1.05
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.8		1.05
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8		1.05
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8		1.05
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8		1.05
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.8		1.05
06192	o-Xylene	95-47-6	0.20	U	0.20	4.8		1.05
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	7.6	U	7.6	23		33.24
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	25.8	J	18.8	37.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

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Sample Description: SL-093-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5A-SB-3.5-4.5

LLI Sample # SW 6244295
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 12:20

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL093 SDG#: DE115-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.4		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.93	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	3.0		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.8	20		1
10138	Fluoranthene	206-44-0	3.8		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-093-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5A-SB-3.5-4.5

LLI Sample # SW 6244295
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 12:20

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL093 SDG#: DE115-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	2.6		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	24		6.8	20		1
10138	Phenanthrene	85-01-8	2.4		0.75	1.9		1
10138	Pyrene	129-00-0	1.7	J	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.4	U	0.4	1.8		39.43
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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Sample Description: SL-093-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5A-SB-3.5-4.5

LLI Sample # SW 6244295
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 12:20

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14420 Albemarle Point Place
Suite 210
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SL093 SDG#: DE115-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,200	J	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	5.4		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.3	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14		10
10199	EFH (C15-C20)	n.a.	4.6	U	4.6	14		10
10199	EFH (C21-C30)	n.a.	97		4.6	14		10
10199	EFH (C30 - C40)	n.a.	130		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-093-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5A-SB-3.5-4.5

LLI Sample # SW 6244295
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 12:20

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL093 SDG#: DE115-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		5.56	22.1		1
07914	Boron	7440-42-8	12.1		0.983	5.52		1
01650	Calcium	7440-70-2	22,700		6.77	22.1		1
01654	Iron	7439-89-6	25,900		5.20	22.1		1
01656	Lithium	7439-93-2	23.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,810		2.81	11.0		1
06958	Manganese	7439-96-5	333		0.0862	0.552		1
10145	Phosphorus	7723-14-0	429		0.619	11.0		1
01662	Potassium	7440-09-7	3,290		19.9	55.2		1
01667	Sodium	7440-23-5	393		41.2	110		1
07968	Strontium	7440-24-6	69.2		0.0685	0.552		1
06969	Tin	7440-31-5	6.89	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,220		0.420	1.10		1
10146	Zirconium	7440-67-7	3.38	J	0.928	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	2.45		0.0676	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.83		0.0901	0.451		2
06126	Barium	7440-39-3	134		0.122	0.451		2
06127	Beryllium	7440-41-7	0.599		0.0180	0.113		2
06128	Cadmium	7440-43-9	1.37		0.0451	0.113		2
06131	Chromium	7440-47-3	27.1		0.135	0.451		2
06132	Cobalt	7440-48-4	7.70		0.0225	0.113		2
06133	Copper	7440-50-8	204		0.186	1.13		5
06135	Lead	7439-92-1	67.6		0.0117	0.225		2
06138	Molybdenum	7439-98-7	1.38		0.0563	0.113		2
06139	Nickel	7440-02-0	17.7		0.113	0.451		2
06141	Selenium	7782-49-2	0.151	J	0.0451	0.451		2
06142	Silver	7440-22-4	1.48		0.0135	0.113		2
06145	Thallium	7440-28-0	0.259		0.0338	0.113		2
06148	Vanadium	7440-62-2	38.2		0.0243	0.110		2
06149	Zinc	7440-66-6	172		1.58	8.45		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0142	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	18.5		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-093-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5A-SB-3.5-4.5

LLI Sample # SW 6244295
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 12:20

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL093 SDG#: DE115-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	608		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-093-SA5A-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011	18:58	Chelsea B Eastep	1.05
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110911AA	04/01/2011	13:28	Jason M Long	33.24
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011	19:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109023985	03/31/2011	19:54	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109023985	03/31/2011	19:54	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109023985	03/31/2011	19:23	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/15/2011	15:58	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011	09:22	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011	08:54	Joseph M Gambler	1

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Sample Description: **SL-093-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5A-SB-3.5-4.5

LLI Sample # SW 6244295
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 12:20

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL093 SDG#: DE115-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011 08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 13:16	Elizabeth J Marin	39.43
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 21:55	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011 09:41	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/07/2011 15:36	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 07:05	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110920013A	04/07/2011 13:16	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	04/01/2011 00:57	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011 21:23	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 10:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110920013A	04/04/2011 17:10	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 04:30	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 23:12	David K Beck	5
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:39	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-093-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5A-SB-3.5-4.5

LLI Sample # SW 6244295
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 12:20

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL093 SDG#: DE115-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 23:12	David K Beck	5
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11103495201A	04/14/2011 13:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11103495201A	04/14/2011 13:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201B	04/12/2011 08:50	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11103243201A	04/18/2011 21:55	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201A	04/13/2011 20:46	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11103495201A	04/14/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201B	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201A	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101B	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401B	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-222-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244296
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.84
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.84
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.84
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.84
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.84
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.84
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.84
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.84
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.84
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.84
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.84
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.84
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.84
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.84
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.84
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.84
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.84
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.84
06192	Methylene Chloride	75-09-2	2.6	J	0.22	3.7		0.84
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.84

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Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244296
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.84
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.84
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.84
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.84
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		20.76
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	182	U	182	364		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1

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Sample Description: SL-222-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244296
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1

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Sample Description: SL-222-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244296
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.37
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1

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Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244296
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	3.9		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.90	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.7	U	8.7	26		20
10199	EFH (C15-C20)	n.a.	9.4	J	8.7	26		20
10199	EFH (C21-C30)	n.a.	190		8.7	26		20
10199	EFH (C30 - C40)	n.a.	710		8.7	26		20
10199	EFH (C8-C11)	n.a.	8.7	U	8.7	26		20

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Sample Description: SL-222-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244296
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.28	21.0		1
07914	Boron	7440-42-8	5.72		0.934	5.25		1
01650	Calcium	7440-70-2	4,580		6.43	21.0		1
01654	Iron	7439-89-6	23,600		4.94	21.0		1
01656	Lithium	7439-93-2	24.3		0.23	2.1		1
01657	Magnesium	7439-95-4	4,700		2.67	10.5		1
06958	Manganese	7439-96-5	432		0.0819	0.525		1
10145	Phosphorus	7723-14-0	390		0.588	10.5		1
01662	Potassium	7440-09-7	3,480		18.9	52.5		1
01667	Sodium	7440-23-5	104	J	39.2	105		1
07968	Strontium	7440-24-6	20.4		0.0651	0.525		1
06969	Tin	7440-31-5	3.95	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,330		0.399	1.05		1
10146	Zirconium	7440-67-7	4.51	J	0.882	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.52		0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.83		0.0856	0.428		2
06126	Barium	7440-39-3	140		0.116	0.428		2
06127	Beryllium	7440-41-7	0.562		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.742		0.0428	0.107		2
06131	Chromium	7440-47-3	29.9		0.128	0.428		2
06132	Cobalt	7440-48-4	6.40		0.0214	0.107		2
06133	Copper	7440-50-8	44.7		0.0706	0.428		2
06135	Lead	7439-92-1	82.9		0.0278	0.535		5
06138	Molybdenum	7439-98-7	1.35		0.0535	0.107		2
06139	Nickel	7440-02-0	21.4		0.107	0.428		2
06141	Selenium	7782-49-2	0.185	J	0.0428	0.428		2
06142	Silver	7440-22-4	1.70		0.0128	0.107		2
06145	Thallium	7440-28-0	0.259		0.0321	0.107		2
06148	Vanadium	7440-62-2	31.7		0.0238	0.108		2
06149	Zinc	7440-66-6	151		1.50	8.03		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0057	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.87	1.6		1

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Sample Description: SL-222-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244296
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	405		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.95		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-222-SA5A-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011 19:21	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110911AA	04/01/2011 14:07	Jason M Long	20.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 19:29	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109023985	03/31/2011 19:55	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109023985	03/31/2011 19:55	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109023985	03/31/2011 19:27	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/15/2011 13:48	Timothy J Trees	10

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Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244296
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011	03:32	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/05/2011	20:08	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011	07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011	08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011	17:31	Elizabeth J Marin	21.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011	21:55	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011	10:24	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/07/2011	15:46	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011	07:23	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011	02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011	09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011	14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110920013A	04/07/2011	14:58	Heather E Williams	20
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	04/01/2011	01:12	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011	21:41	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011	07:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110920013A	04/04/2011	17:10	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011	19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011	14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011	16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011	03:41	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011	10:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011	10:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011	10:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011	10:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011	10:56	Choon Y Tian	2

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Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244296
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 10:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 10:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 10:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 23:01	David K Beck	5
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 10:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 10:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 10:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 10:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 10:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 14:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	110941026001A	04/05/2011 23:01	David K Beck	5
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11103495201A	04/14/2011 10:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11103495201A	04/14/2011 10:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201B	04/12/2011 07:39	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11103243201A	04/18/2011 22:24	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201A	04/13/2011 20:47	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11103495201A	04/14/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201B	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201A	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101B	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401B	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-222-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244297
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	320	6.9	8.3		0.95
06192	Benzene	71-43-2	21	0.10	4.1		0.95
06192	Bromobenzene	108-86-1	22	0.13	4.1		0.95
06192	Bromochloromethane	74-97-5	22	0.34	4.1		0.95
06192	Bromodichloromethane	75-27-4	18	0.08	4.1		0.95
06192	Bromoform	75-25-2	15	0.41	4.1		0.95
06192	Bromomethane	74-83-9	19	0.26	4.1		0.95
06192	2-Butanone	78-93-3	200	1.3	8.3		0.95
06192	n-Butylbenzene	104-51-8	21	0.12	4.1		0.95
06192	sec-Butylbenzene	135-98-8	29	0.06	4.1		0.95
06192	tert-Butylbenzene	98-06-6	31	0.17	4.1		0.95
06192	Carbon Tetrachloride	56-23-5	19	0.15	4.1		0.95
06192	Chlorobenzene	108-90-7	17	0.11	4.1		0.95
06192	Chloroethane	75-00-3	19	0.13	4.1		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	14	0.31	4.1		0.95
06192	Chloroform	67-66-3	21	0.12	4.1		0.95
06192	Chloromethane	74-87-3	24	0.34	4.1		0.95
06192	2-Chlorotoluene	95-49-8	25	0.15	4.1		0.95
06192	4-Chlorotoluene	106-43-4	21	0.15	4.1		0.95
06192	Chlorotrifluoroethene	79-38-9	34	0.59	5.9		1.09
06192	1,2-Dibromo-3-chloropropane	96-12-8	21	0.72	4.1		0.95
06192	Dibromochloromethane	124-48-1	18	0.21	4.1		0.95
06192	1,2-Dibromoethane	106-93-4	18	0.18	4.1		0.95
06192	Dibromomethane	74-95-3	17	0.25	4.1		0.95
06192	1,2-Dichlorobenzene	95-50-1	16	0.09	4.1		0.95
06192	1,3-Dichlorobenzene	541-73-1	17	0.12	4.1		0.95
06192	1,4-Dichlorobenzene	106-46-7	16	0.17	4.1		0.95
06192	Dichlorodifluoromethane	75-71-8	21	0.12	4.1		0.95
06192	1,1-Dichloroethane	75-34-3	22	0.10	4.1		0.95
06192	1,2-Dichloroethane	107-06-2	19	0.16	4.1		0.95
06192	1,1-Dichloroethene	75-35-4	25	0.40	4.1		0.95
06192	cis-1,2-Dichloroethene	156-59-2	20	0.20	4.1		0.95
06192	trans-1,2-Dichloroethene	156-60-5	20	0.12	4.1		0.95
06192	1,2-Dichloropropane	78-87-5	21	0.18	4.1		0.95
06192	1,3-Dichloropropane	142-28-9	21	0.08	4.1		0.95
06192	2,2-Dichloropropane	594-20-7	20	0.18	4.1		0.95
06192	1,1-Dichloropropene	563-58-6	20	0.13	4.1		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	15	0.17	4.1		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	15	0.18	4.1		0.95
06192	Ethylbenzene	100-41-4	19	0.06	4.1		0.95
06192	Freon 113	76-13-1	28	0.11	4.1		0.95
06192	Freon 133a	75-88-7	34	0.59	5.9		1.09
06192	Hexachlorobutadiene	87-68-3	21	0.15	4.1		0.95
06192	2-Hexanone	591-78-6	140	1.7	8.3		0.95
06192	Isopropylbenzene	98-82-8	19	0.06	4.1		0.95
06192	p-Isopropyltoluene	99-87-6	26	0.11	4.1		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.22	4.1		0.95
06192	4-Methyl-2-pentanone	108-10-1	90	0.40	8.3		0.95
06192	Methylene Chloride	75-09-2	26	0.25	4.1		0.95
06192	n-Propylbenzene	103-65-1	29	0.07	4.1		0.95

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Sample Description: SL-222-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244297
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	13	0.10	4.1		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	21	0.11	4.1		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	33	0.24	4.1		0.95
06192	Tetrachloroethene	127-18-4	20	0.21	4.1		0.95
06192	Toluene	108-88-3	22	0.08	4.1		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	7.8	0.15	4.1		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	7.8	0.19	4.1		0.95
06192	1,1,1-Trichloroethane	71-55-6	21	0.21	4.1		0.95
06192	1,1,2-Trichloroethane	79-00-5	23	0.28	4.1		0.95
06192	Trichloroethene	79-01-6	19	0.16	4.1		0.95
06192	Trichlorofluoromethane	75-69-4	26	0.30	4.1		0.95
06192	1,2,3-Trichloropropane	96-18-4	32	0.34	4.1		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	26	0.41	4.1		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	29	0.10	4.1		0.95
06192	Vinyl Chloride	75-01-4	23	0.21	4.1		0.95
06192	m+p-Xylene	179601-23-1	36	0.18	4.1		0.95
06192	o-Xylene	95-47-6	18	0.18	4.1		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	110	5.2	16		23.9
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	6,390	182	364		10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,600	18	180		1
04688	Acenaphthylene	208-96-8	1,700	18	180		1
04688	Aniline	62-53-3	1,400	180	540		1
04688	Anthracene	120-12-7	1,700	18	180		1
04688	Benzidine	92-87-5	5,100	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,800	18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,700	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,900	18	180		1
04688	Benzoic acid	65-85-0	1,300	180	540		1
04688	Benzyl alcohol	100-51-6	1,600	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	18	180		1
04688	Butylbenzylphthalate	85-68-7	1,800	18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700	18	180		1
04688	Carbazole	86-74-8	1,700	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	36	180		1
04688	4-Chloroaniline	106-47-8	1,300	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500	18	180		1
04688	2-Chloronaphthalene	91-58-7	1,300	18	180		1
04688	2-Chlorophenol	95-57-8	1,600	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244297
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	36	180		1
04688	Chrysene	218-01-9	1,700	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800	18	180		1
04688	Dibenzofuran	132-64-9	1,700	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,400	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,400	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,400	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500	110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,700	18	180		1
04688	Diethylphthalate	84-66-2	1,600	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,600	36	180		1
04688	3,5-Dimethylphenol	108-68-9	1,600	36	180		1
04688	Dimethylphthalate	131-11-3	1,700	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300	180	540		1
04688	2,4-Dinitrophenol	51-28-5	2,200	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,600	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,600	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	18	360		1
04688	Fluoranthene	206-44-0	1,700	18	180		1
04688	Fluorene	86-73-7	1,600	18	180		1
04688	Hexachlorobenzene	118-74-1	1,700	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,600	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,900	180	540		1
04688	Hexachloroethane	67-72-1	1,400	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	18	180		1
04688	Isophorone	78-59-1	1,600	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,500	18	180		1
04688	2-Methylphenol	95-48-7	1,500	36	180		1
04688	4-Methylphenol	106-44-5	1,500	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	18	180		1
04688	2-Nitroaniline	88-74-4	1,700	18	180		1
04688	3-Nitroaniline	99-09-2	1,600	36	180		1
04688	4-Nitroaniline	100-01-6	1,300	72	180		1
04688	Nitrobenzene	98-95-3	1,600	18	180		1
04688	2-Nitrophenol	88-75-5	1,600	18	180		1
04688	4-Nitrophenol	100-02-7	1,400	180	540		1
04688	N-Nitrosodimethylamine	62-75-9	1,300	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	18	180		1
04688	Pentachlorophenol	87-86-5	1,400	180	540		1
04688	Phenanthrene	85-01-8	1,700	18	180		1

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Sample Description: SL-222-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244297
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	1,500		18	180		1
04688	Pyrene	129-00-0	1,800		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700		36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34		0.72	1.8		1
10138	Acenaphthylene	208-96-8	34		0.36	1.8		1
10138	Anthracene	120-12-7	36		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	36		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	28		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	28		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	32		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	29		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	38		6.5	19		1
10138	Di-n-butylphthalate	84-74-2	39		6.5	19		1
10138	Chrysene	218-01-9	36		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	32		0.72	1.8		1
10138	Diethylphthalate	84-66-2	36		6.5	19		1
10138	Dimethylphthalate	131-11-3	38		6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46		6.5	19		1
10138	Fluoranthene	206-44-0	37		0.72	1.8		1
10138	Fluorene	86-73-7	35		0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	34		0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	31		0.72	1.8		1
10138	Naphthalene	91-20-3	34		0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	38		6.5	19		1
10138	Phenanthrene	85-01-8	35		0.72	1.8		1
10138	Pyrene	129-00-0	32		0.72	1.8		1
	Di-n-butylphthalate was detected in the method blank at a concentration of 11 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	8.2		0.2	1.1		24.27
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300		66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,300		44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-222-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244297
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	2,300		44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,200		44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,300		44	130	10000000	1
10132	HMX	2691-41-0	2,100		110	330	10000000	1
10132	Nitrobenzene	98-95-3	2,200		44	130	10000000	1
10132	Nitroglycerin	55-63-0	50,000		870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	2,300		87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,300		110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,200		87	130	10000000	1
10132	PETN	78-11-5	59,000		870	2,600	10000000	1
10132	RDX	121-82-4	2,300		55	130	10000000	1
10132	Tetryl	479-45-8	1,600		67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,200		44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,100		650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	16		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	19		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-222-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244297
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.87	J	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	1.6		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	7.7		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	15		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	1.2	J	0.44	1.3		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		110	550		1
10501	Isopropanol	67-63-0	2,200		110	550		1
10501	Methanol	67-56-1	2,200		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	200		5.5	14		1
08283	Ethylene glycol	107-21-1	200		5.5	14		1
08283	Propylene glycol	57-55-6	210		5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3		1.3	1.3		1
10318	o-Terphenyl	84-15-1	1.6		1.5	1.5		1
10318	p-Terphenyl	92-94-4	1.4		1.3	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,200		5.38	21.4		1
07914	Boron	7440-42-8	211		0.953	5.35		1
01650	Calcium	7440-70-2	4,800		6.56	21.4		1
01654	Iron	7439-89-6	23,800		5.04	21.4		1
01656	Lithium	7439-93-2	136		0.24	2.1		1
01657	Magnesium	7439-95-4	4,940		2.72	10.7		1
06958	Manganese	7439-96-5	448		0.0835	0.535		1
10145	Phosphorus	7723-14-0	488		0.599	10.7		1
01662	Potassium	7440-09-7	4,740		19.3	53.5		1
01667	Sodium	7440-23-5	1,190		39.9	107		1
07968	Strontium	7440-24-6	128		0.0664	0.535		1
06969	Tin	7440-31-5	412		1.07	10.7		1
06970	Titanium	7440-32-6	1,550		0.407	1.07		1
10146	Zirconium	7440-67-7	110		0.899	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.74		0.0649	0.216		2

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Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244297
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.08	0.0865	0.432		2
06126	Barium	7440-39-3	140	0.117	0.432		2
06127	Beryllium	7440-41-7	1.51	0.0173	0.108		2
06128	Cadmium	7440-43-9	1.80	0.0432	0.108		2
06131	Chromium	7440-47-3	37.0	0.130	0.432		2
06132	Cobalt	7440-48-4	70.0	0.0216	0.108		2
06133	Copper	7440-50-8	43.6	0.0713	0.432		2
06135	Lead	7439-92-1	79.4	0.0112	0.216		2
06138	Molybdenum	7439-98-7	15.3	0.0540	0.108		2
06139	Nickel	7440-02-0	33.6	0.108	0.432		2
06141	Selenium	7782-49-2	2.51	0.0432	0.432		2
06142	Silver	7440-22-4	14.6	0.0130	0.108		2
06145	Thallium	7440-28-0	0.775	0.0324	0.108		2
06148	Vanadium	7440-62-2	47.8	0.0238	0.108		2
06149	Zinc	7440-66-6	150	0.605	3.24		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.173	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.8	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.1	0.87	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	519	9.8	32.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	40.2	1.1	5.5		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	5.7	0.19	0.52		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-222-SA5A-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244297
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011 19:43	Chelsea B Eastep	0.95
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011 20:27	Chelsea B Eastep	1.09
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110911AA	04/01/2011 14:27	Jason M Long	23.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 19:33	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109023985	03/31/2011 19:55	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109023985	03/31/2011 19:55	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109023985	03/31/2011 19:31	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/15/2011 14:04	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011 04:22	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/05/2011 20:39	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011 08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 18:07	Elizabeth J Marin	24.27
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 21:56	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011 11:06	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/06/2011 23:49	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 07:42	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110920013A	04/06/2011 04:55	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	04/01/2011 01:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011 16:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 11:42	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110920013A	04/04/2011 17:10	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1

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Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244297
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 03:52	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 14:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11103495201A	04/14/2011 11:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11103495201A	04/14/2011 11:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201B	04/12/2011 08:27	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11103243201A	04/18/2011 22:46	Ashley M Adams	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201A	04/13/2011 20:48	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11103495201A	04/14/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201B	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201A	04/12/2011 10:15	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-222-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244298
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	290	6.6	7.9		0.9
06192	Benzene	71-43-2	21	0.1	3.9		0.9
06192	Bromobenzene	108-86-1	20	0.13	3.9		0.9
06192	Bromochloromethane	74-97-5	23	0.32	3.9		0.9
06192	Bromodichloromethane	75-27-4	18	0.08	3.9		0.9
06192	Bromoform	75-25-2	16	0.39	3.9		0.9
06192	Bromomethane	74-83-9	16	0.25	3.9		0.9
06192	2-Butanone	78-93-3	210	1.2	7.9		0.9
06192	n-Butylbenzene	104-51-8	22	0.12	3.9		0.9
06192	sec-Butylbenzene	135-98-8	24	0.06	3.9		0.9
06192	tert-Butylbenzene	98-06-6	21	0.16	3.9		0.9
06192	Carbon Tetrachloride	56-23-5	19	0.14	3.9		0.9
06192	Chlorobenzene	108-90-7	20	0.11	3.9		0.9
06192	Chloroethane	75-00-3	17	0.13	3.9		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	17	0.29	3.9		0.9
06192	Chloroform	67-66-3	20	0.12	3.9		0.9
06192	Chloromethane	74-87-3	19	0.32	3.9		0.9
06192	2-Chlorotoluene	95-49-8	21	0.14	3.9		0.9
06192	4-Chlorotoluene	106-43-4	20	0.14	3.9		0.9
06192	Chlorotrifluoroethene	79-38-9	21	0.47	4.7		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.69	3.9		0.9
06192	Dibromochloromethane	124-48-1	17	0.20	3.9		0.9
06192	1,2-Dibromoethane	106-93-4	19	0.17	3.9		0.9
06192	Dibromomethane	74-95-3	19	0.24	3.9		0.9
06192	1,2-Dichlorobenzene	95-50-1	19	0.09	3.9		0.9
06192	1,3-Dichlorobenzene	541-73-1	19	0.12	3.9		0.9
06192	1,4-Dichlorobenzene	106-46-7	19	0.16	3.9		0.9
06192	Dichlorodifluoromethane	75-71-8	17	0.12	3.9		0.9
06192	1,1-Dichloroethane	75-34-3	20	0.1	3.9		0.9
06192	1,2-Dichloroethane	107-06-2	19	0.15	3.9		0.9
06192	1,1-Dichloroethene	75-35-4	23	0.38	3.9		0.9
06192	cis-1,2-Dichloroethene	156-59-2	20	0.19	3.9		0.9
06192	trans-1,2-Dichloroethene	156-60-5	21	0.12	3.9		0.9
06192	1,2-Dichloropropane	78-87-5	21	0.17	3.9		0.9
06192	1,3-Dichloropropane	142-28-9	20	0.08	3.9		0.9
06192	2,2-Dichloropropane	594-20-7	18	0.17	3.9		0.9
06192	1,1-Dichloropropene	563-58-6	21	0.13	3.9		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.16	3.9		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.17	3.9		0.9
06192	Ethylbenzene	100-41-4	21	0.06	3.9		0.9
06192	Freon 113	76-13-1	24	0.11	3.9		0.9
06192	Freon 133a	75-88-7	24	0.47	4.7		0.86
06192	Hexachlorobutadiene	87-68-3	20	0.14	3.9		0.9
06192	2-Hexanone	591-78-6	120	1.6	7.9		0.9
06192	Isopropylbenzene	98-82-8	21	0.06	3.9		0.9
06192	p-Isopropyltoluene	99-87-6	22	0.11	3.9		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.21	3.9		0.9
06192	4-Methyl-2-pentanone	108-10-1	93	0.38	7.9		0.9
06192	Methylene Chloride	75-09-2	23	0.24	3.9		0.9
06192	n-Propylbenzene	103-65-1	24	0.07	3.9		0.9

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Sample Description: SL-222-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244298
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	19	0.1	3.9		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	18	0.11	3.9		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	20	0.23	3.9		0.9
06192	Tetrachloroethene	127-18-4	21	0.20	3.9		0.9
06192	Toluene	108-88-3	21	0.08	3.9		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	14	0.14	3.9		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	14	0.18	3.9		0.9
06192	1,1,1-Trichloroethane	71-55-6	20	0.20	3.9		0.9
06192	1,1,2-Trichloroethane	79-00-5	20	0.27	3.9		0.9
06192	Trichloroethene	79-01-6	20	0.15	3.9		0.9
06192	Trichlorofluoromethane	75-69-4	21	0.28	3.9		0.9
06192	1,2,3-Trichloropropane	96-18-4	20	0.32	3.9		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	21	0.39	3.9		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	21	0.1	3.9		0.9
06192	Vinyl Chloride	75-01-4	20	0.20	3.9		0.9
06192	m+p-Xylene	179601-23-1	40	0.17	3.9		0.9
06192	o-Xylene	95-47-6	19	0.17	3.9		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	120	4.9	15		22.36
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	6,760	181	361		10
Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,600	18	180		1
04688	Acenaphthylene	208-96-8	1,700	18	180		1
04688	Aniline	62-53-3	1,400	180	540		1
04688	Anthracene	120-12-7	1,700	18	180		1
04688	Benzidine	92-87-5	4,500	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,700	18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,800	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,800	18	180		1
04688	Benzoic acid	65-85-0	1,400	180	540		1
04688	Benzyl alcohol	100-51-6	1,700	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	18	180		1
04688	Butylbenzylphthalate	85-68-7	1,800	18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700	18	180		1
04688	Carbazole	86-74-8	1,600	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	36	180		1
04688	4-Chloroaniline	106-47-8	1,100	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600	18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400	18	180		1
04688	2-Chlorophenol	95-57-8	1,700	18	180		1

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Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244298
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	36	180		1
04688	Chrysene	218-01-9	1,700	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900	18	180		1
04688	Dibenzofuran	132-64-9	1,700	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,500	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,500	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200	110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,700	18	180		1
04688	Diethylphthalate	84-66-2	1,600	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,700	36	180		1
04688	3,5-Dimethylphenol	108-68-9	1,600	36	180		1
04688	Dimethylphthalate	131-11-3	1,700	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400	180	540		1
04688	2,4-Dinitrophenol	51-28-5	2,200	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,600	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,600	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	18	360		1
04688	Fluoranthene	206-44-0	1,700	18	180		1
04688	Fluorene	86-73-7	1,600	18	180		1
04688	Hexachlorobenzene	118-74-1	1,700	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	3,000	180	540		1
04688	Hexachloroethane	67-72-1	1,500	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	18	180		1
04688	Isophorone	78-59-1	1,600	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180		1
04688	2-Methylphenol	95-48-7	1,600	36	180		1
04688	4-Methylphenol	106-44-5	1,600	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	18	180		1
04688	2-Nitroaniline	88-74-4	1,700	18	180		1
04688	3-Nitroaniline	99-09-2	1,600	36	180		1
04688	4-Nitroaniline	100-01-6	1,200	72	180		1
04688	Nitrobenzene	98-95-3	1,600	18	180		1
04688	2-Nitrophenol	88-75-5	1,700	18	180		1
04688	4-Nitrophenol	100-02-7	1,300	180	540		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	18	180		1
04688	Pentachlorophenol	87-86-5	1,500	180	540		1
04688	Phenanthrene	85-01-8	1,700	18	180		1

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Sample Description: SL-222-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244298
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	1,500		18	180		1
04688	Pyrene	129-00-0	1,800		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600		36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35		0.73	1.8		1
10138	Acenaphthylene	208-96-8	35		0.36	1.8		1
10138	Anthracene	120-12-7	36		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	35		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	27		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	28		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	33		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	28		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	37		6.6	20		1
10138	Di-n-butylphthalate	84-74-2	39		6.6	20		1
10138	Chrysene	218-01-9	37		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	32		0.73	1.8		1
10138	Diethylphthalate	84-66-2	35		6.6	20		1
10138	Dimethylphthalate	131-11-3	38		6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	42		6.6	20		1
10138	Fluoranthene	206-44-0	37		0.73	1.8		1
10138	Fluorene	86-73-7	36		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	33		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	35		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	32		0.73	1.8		1
10138	Naphthalene	91-20-3	34		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	34		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	34		6.6	20		1
10138	Phenanthrene	85-01-8	35		0.73	1.8		1
10138	Pyrene	129-00-0	31		0.73	1.8		1
	Di-n-butylphthalate was detected in the method blank at a concentration of 11 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	8.3		0.2	1		21.97
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300		66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,300		44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1

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Sample Description: SL-222-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244298
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	2,300		44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,200		44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,200		44	130	10000000	1
10132	HMX	2691-41-0	2,100		110	330	10000000	1
10132	Nitrobenzene	98-95-3	2,100		44	130	10000000	1
10132	Nitroglycerin	55-63-0	50,000		870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	2,200		87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,200		110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,200		87	130	10000000	1
10132	PETN	78-11-5	58,000		870	2,600	10000000	1
10132	RDX	121-82-4	2,300		55	130	10000000	1
10132	Tetryl	479-45-8	1,600		67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,100		44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	4,800		650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	16		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	19		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-222-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

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SL222 SDG#: DE115-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.91	J	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	1.8		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	4.0		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	6.8		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	1.2	J	0.44	1.3		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,100		110	550		1
10501	Isopropanol	67-63-0	2,100		110	550		1
10501	Methanol	67-56-1	2,100		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	200		5.5	14		1
08283	Ethylene glycol	107-21-1	190		5.5	14		1
08283	Propylene glycol	57-55-6	190		5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4		1.3	1.3		1
10318	o-Terphenyl	84-15-1	1.6		1.5	1.5		1
10318	p-Terphenyl	92-94-4	1.4		1.3	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		5.44	21.6		1
07914	Boron	7440-42-8	211		0.962	5.40		1
01650	Calcium	7440-70-2	9,120		6.63	21.6		1
01654	Iron	7439-89-6	26,400		5.09	21.6		1
01656	Lithium	7439-93-2	135		0.24	2.2		1
01657	Magnesium	7439-95-4	5,070		2.75	10.8		1
06958	Manganese	7439-96-5	389		0.0843	0.540		1
10145	Phosphorus	7723-14-0	518		0.605	10.8		1
01662	Potassium	7440-09-7	4,690		19.5	54.0		1
01667	Sodium	7440-23-5	1,230		40.3	108		1
07968	Strontium	7440-24-6	137		0.0670	0.540		1
06969	Tin	7440-31-5	418		1.08	10.8		1
06970	Titanium	7440-32-6	1,520		0.411	1.08		1
10146	Zirconium	7440-67-7	112		0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	2.12		0.0636	0.212		2

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Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244298
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

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SL222 SDG#: DE115-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.81	0.0848	0.424		2
06126	Barium	7440-39-3	140	0.114	0.424		2
06127	Beryllium	7440-41-7	1.52	0.0170	0.106		2
06128	Cadmium	7440-43-9	1.97	0.0424	0.106		2
06131	Chromium	7440-47-3	48.0	0.127	0.424		2
06132	Cobalt	7440-48-4	67.3	0.0212	0.106		2
06133	Copper	7440-50-8	68.8	0.0700	0.424		2
06135	Lead	7439-92-1	87.2	0.0276	0.530		5
06138	Molybdenum	7439-98-7	15.4	0.0530	0.106		2
06139	Nickel	7440-02-0	34.1	0.106	0.424		2
06141	Selenium	7782-49-2	2.66	0.0424	0.424		2
06142	Silver	7440-22-4	14.0	0.0127	0.106		2
06145	Thallium	7440-28-0	0.755	0.0318	0.106		2
06148	Vanadium	7440-62-2	49.4	0.0235	0.107		2
06149	Zinc	7440-66-6	176	0.594	3.18		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.168	0.0030	0.104		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-222-SA5A-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011 20:05	Chelsea B Eastep	0.9
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011 20:50	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110911AA	04/01/2011 14:47	Jason M Long	22.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 19:45	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109023985	03/31/2011 19:55	Lois E Hiltz	n.a.

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Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244298
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109023985	03/31/2011 19:55	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109023985	03/31/2011 19:43	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/15/2011 14:20	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011 04:47	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/05/2011 21:11	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011 08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 18:44	Elizabeth J Marin	21.97
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 21:57	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011 11:48	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/06/2011 23:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 08:00	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110920013A	04/06/2011 05:20	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	04/01/2011 01:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011 16:41	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 07:58	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110920013A	04/04/2011 17:10	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 03:55	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:09	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244298
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 23:08	David K Beck	5
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 14:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-222-SA5A-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244299
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		5.38	21.4		1
07914	Boron	7440-42-8	6.18		0.953	5.35		1
01650	Calcium	7440-70-2	5,100		6.56	21.4		1
01654	Iron	7439-89-6	23,900		5.04	21.4		1
01656	Lithium	7439-93-2	25.2		0.24	2.1		1
01657	Magnesium	7439-95-4	4,740		2.72	10.7		1
06958	Manganese	7439-96-5	330		0.0835	0.535		1
10145	Phosphorus	7723-14-0	405		0.599	10.7		1
01662	Potassium	7440-09-7	3,550		19.3	53.5		1
01667	Sodium	7440-23-5	93.4	J	39.9	107		1
07968	Strontium	7440-24-6	23.0		0.0664	0.535		1
06969	Tin	7440-31-5	154		1.07	10.7		1
06970	Titanium	7440-32-6	1,300		0.407	1.07		1
10146	Zirconium	7440-67-7	4.59	J	0.899	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.21		0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.33		0.0840	0.420		2
06126	Barium	7440-39-3	135		0.113	0.420		2
06127	Beryllium	7440-41-7	0.618		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.820		0.0420	0.105		2
06131	Chromium	7440-47-3	30.5		0.126	0.420		2
06132	Cobalt	7440-48-4	7.14		0.0210	0.105		2
06133	Copper	7440-50-8	49.4		0.0693	0.420		2
06135	Lead	7439-92-1	85.9		0.0109	0.210		2
06138	Molybdenum	7439-98-7	1.53		0.0525	0.105		2
06139	Nickel	7440-02-0	20.0		0.105	0.420		2
06141	Selenium	7782-49-2	0.155	J	0.0420	0.420		2
06142	Silver	7440-22-4	1.19		0.0126	0.105		2
06145	Thallium	7440-28-0	0.259		0.0315	0.105		2
06148	Vanadium	7440-62-2	36.7		0.0231	0.105		2
06149	Zinc	7440-66-6	161		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.22	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-222-SA5A-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244299
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	432		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.00		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	9.3		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	8.4		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 03:48	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:02	Choon Y Tian	2

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244299
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL222 SDG#: DE115-08DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 14:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11103495201A	04/14/2011 10:50	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11103495201A	04/14/2011 10:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201B	04/12/2011 08:02	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11103243201A	04/18/2011 23:30	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201A	04/13/2011 20:49	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11103495201A	04/14/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201B	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201A	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101B	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401B	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-257-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SB-2.5-3.5

LLI Sample # SW 6244300
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:45

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL257 SDG#: DE115-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.95
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.95
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.95
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.95
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.95
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.95
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.95
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.95
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.95
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.95
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.95
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.95
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.95
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.95
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.95
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.95
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.95
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.95
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.95
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.95
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.95
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.95
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.95
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.95
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.95
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.95
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.95
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.95
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.95
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.95
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.95
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.95
06192	Methylene Chloride	75-09-2	1.2	J	0.24	4.0		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.95

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Sample Description: **SL-257-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SB-2.5-3.5

LLI Sample # SW 6244300
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:45

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL257 SDG#: DE115-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.95
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.95
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.95
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.95
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.95
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.95
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.95
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		25.88
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	35.9		17.6	35.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1

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Sample Description: **SL-257-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SB-2.5-3.5

LLI Sample # SW 6244300
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:45

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL257 SDG#: DE115-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1

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Sample Description: SL-257-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SB-2.5-3.5

LLI Sample # SW 6244300
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:45

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL257 SDG#: DE115-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	16	J	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.56
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1

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Sample Description: **SL-257-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SB-2.5-3.5

LLI Sample # SW 6244300
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL257 SDG#: DE115-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	1.1	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.61	J	0.43	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1

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Sample Description: **SL-257-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SB-2.5-3.5

LLI Sample # SW 6244300
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:45

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL257 SDG#: DE115-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		5.17	20.6		1
07914	Boron	7440-42-8	1.43	J	0.915	5.14		1
01650	Calcium	7440-70-2	3,220		6.30	20.6		1
01654	Iron	7439-89-6	21,600		4.84	20.6		1
01656	Lithium	7439-93-2	18.9		0.23	2.1		1
01657	Magnesium	7439-95-4	5,620		2.61	10.3		1
06958	Manganese	7439-96-5	281		0.0802	0.514		1
10145	Phosphorus	7723-14-0	413		0.576	10.3		1
01662	Potassium	7440-09-7	2,130		18.5	51.4		1
01667	Sodium	7440-23-5	139		38.4	103		1
07968	Strontium	7440-24-6	16.8		0.0638	0.514		1
06969	Tin	7440-31-5	3.23	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,380		0.391	1.03		1
10146	Zirconium	7440-67-7	1.40	J	0.864	5.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.221		0.0617	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.46		0.0823	0.411		2
06126	Barium	7440-39-3	61.4		0.111	0.411		2
06127	Beryllium	7440-41-7	0.568		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0806	J	0.0411	0.103		2
06131	Chromium	7440-47-3	32.3		0.123	0.411		2
06132	Cobalt	7440-48-4	6.23		0.0206	0.103		2
06133	Copper	7440-50-8	8.81		0.0679	0.411		2
06135	Lead	7439-92-1	3.94		0.0107	0.206		2
06138	Molybdenum	7439-98-7	0.739		0.0514	0.103		2
06139	Nickel	7440-02-0	10.7		0.103	0.411		2
06141	Selenium	7782-49-2	0.103	J	0.0411	0.411		2
06142	Silver	7440-22-4	0.0426	J	0.0123	0.103		2
06145	Thallium	7440-28-0	0.312		0.0309	0.103		2
06148	Vanadium	7440-62-2	38.0		0.0231	0.105		2
06149	Zinc	7440-66-6	64.8		0.576	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-257-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SB-2.5-3.5

LLI Sample # SW 6244300
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:45

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL257 SDG#: DE115-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	459		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.17		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-257-SA5A-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011	21:13	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110911AA	04/01/2011	13:47	Jason M Long	25.88
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011	19:49	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109023985	03/31/2011	19:55	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109023985	03/31/2011	19:55	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109023985	03/31/2011	19:48	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/20/2011	10:56	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11095SLA026	04/08/2011	09:47	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11094SLC026	04/06/2011	09:26	Joseph M Gambler	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-257-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SB-2.5-3.5

LLI Sample # SW 6244300
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:45

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL257 SDG#: DE115-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11094SLC026	04/05/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11095SLA026	04/07/2011 08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11091A34A	04/01/2011 23:36	Elizabeth J Marin	24.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109023985	03/31/2011 21:58	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110900050A	04/06/2011 12:31	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/07/2011 00:08	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110940035A	04/07/2011 08:19	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110940035A	04/06/2011 02:15	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110900050A	04/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110920013A	04/06/2011 02:22	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110900036A	04/01/2011 01:56	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110900014A	04/04/2011 21:59	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 02:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110920013A	04/04/2011 17:10	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110900014A	03/31/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110900036A	03/31/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 04:34	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:42	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-257-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SB-2.5-3.5

LLI Sample # SW 6244300
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:45

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL257 SDG#: DE115-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11103495201A	04/14/2011 13:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11103495201A	04/14/2011 13:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201B	04/12/2011 09:35	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11103243201A	04/18/2011 23:37	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201A	04/13/2011 20:50	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11103495201A	04/14/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201B	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201A	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101B	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401B	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11103243201A	04/13/2011 20:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: TB-033011 Water
SSFL Area IV Collocated Soil Sampling
TB-033011

LLI Sample # WW 6244301
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:00

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB330 SDG#: DE115-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-033011 Water
SSFL Area IV Collocated Soil Sampling
TB-033011

LLI Sample # WW 6244301
LLI Group # 1239810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:00

Submitted: 03/31/2011 09:15
Reported: 04/21/2011 16:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB330 SDG#: DE115-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110952AA	04/05/2011	18:53	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110901AA	03/31/2011	11:38	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110901AA	03/31/2011	11:38	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110952AA	04/05/2011	18:53	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11095B20A	04/05/2011	23:15	Elizabeth J Marin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11095B20A	04/05/2011	23:15	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110912AA	Sample number(s): 6244289-6244298,6244300									
Acetone	6.7	U	6.7	8.0	ug/kg	174		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	101		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	102		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	117		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	83		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	89		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	136		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	113		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	115		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	104		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	87		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	88		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	92		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	98		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	94		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	106		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	106		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	93		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	87		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	101		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	102		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	102		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	81		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	98		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	108		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	100		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	99		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	86		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	89		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	113		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	109		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	103		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	130		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	102		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	111		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	93		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	100		61-134		
Methylene Chloride	0.40	J	0.24	4.0	ug/kg	105		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	117		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	95		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	91		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	107		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	99		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	99		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	93		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	101		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	110		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	109		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	97		80-120		
Batch number: E110901AA	Sample number(s): 6244301									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	112	116	80-123	3	30
Batch number: E110911AA	Sample number(s): 6244289-6244298,6244300									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	113	70-130	5	30
Batch number: Y110952AA	Sample number(s): 6244301									
Acetone	6	U	6.	20	ug/l	101	96	49-234	6	30
Benzene	0.5	U	0.5	5	ug/l	105	98	79-120	7	30
Bromobenzene	1	U	1.	5	ug/l	104	99	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	112	107	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	111	103	80-120	7	30
Bromoform	1	U	1.	5	ug/l	92	87	61-120	6	30
Bromomethane	1	U	1.	5	ug/l	117	109	44-120	7	30
2-Butanone	3	U	3.	10	ug/l	101	96	66-151	6	30
n-Butylbenzene	1	U	1.	5	ug/l	95	89	74-120	7	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	94	78-120	6	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	89	80-120	7	30
Carbon Tetrachloride	1	U	1.	5	ug/l	120	110	75-123	8	30
Chlorobenzene	0.8	U	0.8	5	ug/l	104	98	80-120	6	30
Chloroethane	1	U	1.	5	ug/l	109	101	49-129	8	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	90	86	56-129	4	30
Chloroform	0.8	U	0.8	5	ug/l	116	107	77-122	8	30
Chloromethane	1	U	1.	5	ug/l	80	77	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	101	94	80-120	6	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	96	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	77	66	38-136	15	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	94	90	56-126	5	30
Dibromochloromethane	1	U	1.	5	ug/l	103	96	80-120	7	30
1,2-Dibromoethane	1	U	1.	5	ug/l	106	99	80-120	7	30
Dibromomethane	1	U	1.	5	ug/l	109	104	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	101	96	80-120	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	102	98	80-120	4	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	102	97	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	97	87	47-120	10	30
1,1-Dichloroethane	1	U	1.	5	ug/l	107	99	79-120	7	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	127	119	70-130	6	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	109	100	74-123	9	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	99	80-120	4	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	96	80-120	6	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	94	78-120	5	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	97	80-120	6	30
2,2-Dichloropropane	1	U	1.	5	ug/l	106	99	77-124	7	30
1,1-Dichloropropene	1	U	1.	5	ug/l	108	100	80-120	8	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	100	94	80-120	5	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	96	90	79-120	6	30
Ethylbenzene	0.8	U	0.8	5	ug/l	103	96	79-120	7	30
Freon 113	2	U	2.	10	ug/l	120	109	69-128	10	30
Freon 133a	2	U	2.	5	ug/l	116	103	77-120	12	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	93	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	96	91	65-136	6	30
Isopropylbenzene	1	U	1.	5	ug/l	104	97	77-120	7	30
p-Isopropyltoluene	1	U	1.	5	ug/l	99	94	80-120	6	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	100	76-120	5	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	102	96	70-121	6	30
Methylene Chloride	2	U	2.	5	ug/l	113	100	80-120	13	30
n-Propylbenzene	1	U	1.	5	ug/l	101	95	80-120	6	30
Styrene	1	U	1.	5	ug/l	98	92	80-120	7	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	106	99	80-120	7	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	91	71-120	3	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	110	103	80-121	7	30
Toluene	0.7	U	0.7	5	ug/l	101	95	79-120	7	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	97	94	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	87	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	117	108	75-127	8	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	103	98	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	109	101	80-120	8	30
Trichlorofluoromethane	2	U	2.	5	ug/l	135*	125	64-129	8	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	106	100	80-120	6	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	101	95	74-120	6	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	102	96	75-120	7	30
Vinyl Chloride	1	U	1.	5	ug/l	93	86	65-125	7	30
m+p-Xylene	0.8	U	0.8	5	ug/l	102	96	80-120	6	30
o-Xylene	0.8	U	0.8	5	ug/l	99	93	80-120	6	30

Batch number: 11094SLC026 Sample number(s): 6244289-6244298,6244300

Acenaphthene	0.67	U	0.67	1.7	ug/kg	91	63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91	60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	90	55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93	74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	71	58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	77	63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	88	44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	80	54-142
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	90	65-131
Di-n-butylphthalate	11	J	6.0	18	ug/kg	98	75-137
Chrysene	0.33	U	0.33	1.7	ug/kg	96	73-114
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	88	53-138
Diethylphthalate	6.0	U	6.0	18	ug/kg	92	68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98	79-121
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	104	67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	91	64-120
Fluorene	0.67	U	0.67	1.7	ug/kg	97	71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	87	56-134

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	88		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	91		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	89		56-121		
Batch number: 11095SLA026	Sample number(s): 6244289-6244298,6244300									
Acenaphthene	17	U	17.	170	ug/kg	94		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	98		75-122		
Aniline	170 U		170.	500	ug/kg	81		34-94		
Anthracene	17	U	17.	170	ug/kg	99		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	100		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	101		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	101		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	105		67-125		
Benzoic acid	170 U		170.	500	ug/kg	95		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	93		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	103		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	100		79-112		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	89		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	63		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	72		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	96		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	80		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	92		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	90		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	94		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	85		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	73		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	91		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	92		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	104		77-111		
bis(2-Ethylhexyl)phthalate	17	J	17.	330	ug/kg	103		75-117		

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	17	U	17.	170	ug/kg	99		78-116		
Fluorene	17	U	17.	170	ug/kg	95		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	93		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	80		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	101		64-119		
Isophorone	17	U	17.	170	ug/kg	90		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	92		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	87		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	87		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	87		66-117		
Naphthalene	17	U	17.	170	ug/kg	90		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	90		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	80		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	83		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	75		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	105		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	114		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	91		51-117		
Phenanthrene	17	U	17.	170	ug/kg	98		77-113		
Phenol	17	U	17.	170	ug/kg	81		58-112		
Pyrene	17	U	17.	170	ug/kg	101		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	103		78-111		
Batch number: 11098SLB026	Sample number(s): 6244289,6244291-6244298,6244300									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	79		70-130		
Batch number: 11091A34A	Sample number(s): 6244289,6244291-6244298,6244300									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68		67-119		
Batch number: 11095B20A	Sample number(s): 6244301									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	118	75-135	0	30
Batch number: 110900050A	Sample number(s): 6244289,6244291-6244298,6244300									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	92	95	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	91	94	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	106		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	102		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	104		80-120		
HMX	100 U		100.	300	ug/kg	98		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	103		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	85		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	106		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	104		73-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80 U	U	80.	120	ug/kg	104		80-120		
PETN	800 U	U	800.	2,400	ug/kg	109		80-120		
RDX	50	U	50.	120	ug/kg	112		75-131		
Tetryl	61	U	61.	120	ug/kg	79		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	108		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
Batch number: 110940004A	Sample number(s): 6244289,6244291-6244298,6244300									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	92		80-126		
Batch number: 110900028A	Sample number(s): 6244290									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		70-130		
Batch number: 110940035A	Sample number(s): 6244289-6244298,6244300									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	77	83	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	105		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110920013A	Sample number(s): 6244289,6244291-6244298,6244300									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	84		66-113		
EFH (C30 - C40)	0.57	J	0.40	1.2	mg/kg	81		66-113		
EFH (C8-C11)	0.48	J	0.40	1.2	mg/kg	83		66-113		
Batch number: 110900014A	Sample number(s): 6244289,6244291-6244298,6244300									
Diethylene glycol	5.0	U	5.0	13	mg/kg	107		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	109		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Batch number: 110900036A	Sample number(s): 6244289,6244291-6244298,6244300									
Ethanol	100 U	U	100.	500	ug/kg	91		71-129		
Isopropanol	100 U	U	100.	500	ug/kg	94		75-125		
Methanol	100 U	U	100.	500	ug/kg	90		68-129		
Batch number: 111020016A	Sample number(s): 6244289,6244291-6244298,6244300									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	80		75-125		
Batch number: 110941026001A	Sample number(s): 6244289-6244300									
Antimony	0.0600	U	0.0600	0.200	mg/kg	141		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		83-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beryllium	0.0160 U	0.0160	0.100	mg/kg	100		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	108		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	115		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	103		82-118		
Copper	0.124 J	0.0660	0.400	mg/kg	98		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	102		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	98		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	105		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	100		83-110		
Zinc	0.560 U	0.560	3.00	mg/kg	99		81-112		
Batch number: 110941026001B	Sample number(s): 6244289-6244300								
Selenium	0.0400 U	0.0400	0.400	mg/kg	101		83-111		
Batch number: 110941026001C	Sample number(s): 6244289-6244300								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	117		78-122		
Batch number: 110941026001D	Sample number(s): 6244289-6244300								
Barium	0.108 U	0.108	0.400	mg/kg	106		81-980		
Batch number: 110945708002	Sample number(s): 6244289-6244300								
Aluminum	5.03 U	5.03	20.0	mg/kg	98		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	88		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	100		88-110		
Iron	4.95 J	4.71	20.0	mg/kg	100		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	101		89-112		
Phosphorus	1.16 J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3 U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	100		86-110		
Tin	1.99 J	1.00	10.0	mg/kg	98		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	110		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	104		80-120		
Batch number: 110945711002	Sample number(s): 6244289-6244300								
Mercury	0.0028 U	0.0028	0.0981	mg/kg	96		88-123		
Batch number: 110971026001A	Sample number(s): 6244289-6244300								
Vanadium	0.0220 U	0.0220	0.100	mg/kg	113		87-117		
Batch number: 11097097201A	Sample number(s): 6244289-6244294								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11097097201B	Sample number(s): 6244295-6244297,6244299-6244300								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11102102201A	Sample number(s): 6244289,6244291-6244297,6244299-6244300								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11103243201A	Sample number(s): 6244289-6244297,6244299-6244300								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11103495201A	Sample number(s): 6244289-6244297,6244299-6244300								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	93		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11094039401A	Sample number(s): 6244289-6244291								
18a pH by 9045C					100		95-105		
Batch number: 11094039401B	Sample number(s): 6244292-6244296,6244299-6244300								
18a pH by 9045C					100		95-105		
Batch number: 11094182101A	Sample number(s): 6244289-6244291								
32a OR Potential					101		98-102		
Batch number: 11094182101B	Sample number(s): 6244292-6244296,6244299-6244300								
32a OR Potential					101		98-102		
Batch number: 11096162401A	Sample number(s): 6244290								
Moisture Content by 160.3					100		80-120		
Batch number: 11102162401B	Sample number(s): 6244289,6244291-6244300								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110912AA	Sample number(s): 6244289-6244298,6244300 UNSPK: 6244296								
Acetone	208	197	15-210	11	30				
Benzene	103	107	55-143	1	30				
Bromobenzene	104	104	43-139	6	30				
Bromochloromethane	108	118	60-137	4	30				
Bromodichloromethane	87	94	53-136	2	30				
Bromoform	71	80	38-124	7	30				
Bromomethane	90	83	42-168	13	30				
2-Butanone	129	140	37-163	3	30				
n-Butylbenzene	103	112	30-146	3	30				
sec-Butylbenzene	142	121	33-157	21	30				
tert-Butylbenzene	152	109	41-152	38*	30				
Carbon Tetrachloride	94	96	45-153	3	30				
Chlorobenzene	81	101	49-135	17	30				
Chloroethane	90	87	39-152	9	30				
2-Chloroethyl Vinyl Ether	66	85	32-139	20	30				
Chloroform	103	103	61-142	5	30				
Chloromethane	117	99	51-163	22	30				
2-Chlorotoluene	122	106	42-146	19	30				
4-Chlorotoluene	100	101	39-145	3	30				
Chlorotrifluoroethene	143*	114	70-130	45*	30				
1,2-Dibromo-3-chloropropane	99	82	30-139	24	30				
Dibromochloromethane	86	87	51-128	4	30				
1,2-Dibromoethane	88	96	54-129	3	30				
Dibromomethane	83	96	57-130	9	30				
1,2-Dichlorobenzene	78	94	36-133	14	30				
1,3-Dichlorobenzene	81	97	34-134	13	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dichlorobenzene	76	94	35-136	17	30				
Dichlorodifluoromethane	101	85	26-151	22	30				
1,1-Dichloroethane	109	104	63-142	9	30				
1,2-Dichloroethane	93	98	68-131	1	30				
1,1-Dichloroethene	122	119	61-149	7	30				
cis-1,2-Dichloroethene	98	104	60-136	1	30				
trans-1,2-Dichloroethene	98	106	59-142	2	30				
1,2-Dichloropropane	103	105	62-135	3	30				
1,3-Dichloropropane	102	100	58-129	7	30				
2,2-Dichloropropane	95	93	53-147	7	30				
1,1-Dichloropropene	97	106	54-145	4	30				
cis-1,3-Dichloropropene	72	90	51-131	17	30				
trans-1,3-Dichloropropene	71	86	49-129	14	30				
Ethylbenzene	93	106	44-141	8	30				
Freon 113	136	125	56-156	14	30				
Freon 133a	141*	126	61-131	35*	30				
Hexachlorobutadiene	100	99	10-155	5	30				
2-Hexanone	131	120	32-160	14	30				
Isopropylbenzene	90	105	38-144	11	30				
p-Isopropyltoluene	127	114	29-152	16	30				
Methyl Tertiary Butyl Ether	99	92	55-129	12	30				
4-Methyl-2-pentanone	87	94	46-139	3	30				
Methylene Chloride	114	101	61-141	15	30				
n-Propylbenzene	140	121	39-157	20	30				
Styrene	62	96	35-134	38*	30				
1,1,1,2-Tetrachloroethane	100	93	52-130	13	30				
1,1,2,2-Tetrachloroethane	160*	103	40-152	48*	30				
Tetrachloroethene	98	105	42-149	2	30				
Toluene	107	107	50-146	5	30				
1,2,3-Trichlorobenzene	38	71	10-140	57*	30				
1,2,4-Trichlorobenzene	38	72	10-136	58*	30				
1,1,1-Trichloroethane	101	101	64-142	4	30				
1,1,2-Trichloroethane	109	100	54-139	14	30				
Trichloroethene	90	103	53-144	9	30				
Trichlorofluoromethane	124	107	47-163	20	30				
1,2,3-Trichloropropane	152	100	45-154	46*	30				
1,2,4-Trimethylbenzene	128	108	37-149	22	30				
1,3,5-Trimethylbenzene	139	108	38-150	30	30				
Vinyl Chloride	111	100	50-154	16	30				
m+p-Xylene	86	102	44-137	12	30				
o-Xylene	86	98	42-137	8	30				
Batch number: E110911AA	Sample number(s): 6244289-6244298,6244300 UNSPK: 6244296								
1,4-Dioxane	83	99	70-130	10	30				
Batch number: 11094SLC026	Sample number(s): 6244289-6244298,6244300 UNSPK: 6244296								
Acenaphthene	94	96	63-105	3	30				
Acenaphthylene	95	96	67-114	2	30				
Anthracene	99	98	60-122	0	30				
Benzo(a)anthracene	100	96	59-128	3	30				
Benzo(a)pyrene	79	76	45-138	3	30				
Benzo(b)fluoranthene	78	76	43-155	1	30				
Benzo(g,h,i)perylene	90	89	33-141	0	30				

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Quality Control Summary

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Reported: 04/21/11 at 04:26 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(k)fluoranthene	81	78	42-144	2	30				
Butylbenzylphthalate	105	102	57-173	2	30				
Di-n-butylphthalate	76	74	65-148	1	30				
Chrysene	101	101	48-134	1	30				
Dibenz(a,h)anthracene	89	89	22-133	1	30				
Diethylphthalate	100	97	70-136	2	30				
Dimethylphthalate	105	106	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	127	117	39-167	7	30				
Fluoranthene	103	101	26-166	0	30				
Fluorene	99	99	66-122	2	30				
Indeno(1,2,3-cd)pyrene	90	90	21-143	1	30				
1-Methylnaphthalene	94	95	72-123	2	30				
2-Methylnaphthalene	88	88	64-103	1	30				
Naphthalene	94	94	61-102	2	30				
N-Nitrosodimethylamine	93	93	48-113	1	30				
Di-n-octylphthalate	106	92	40-192	13	30				
Phenanthrene	97	95	12-165	0	30				
Pyrene	89	85	15-153	3	30				
Batch number: 11095SLA026	Sample number(s): 6244289-6244298,6244300 UNSPK: 6244296								
Acenaphthene	91	92	75-115	1	30				
Acenaphthylene	96	97	81-110	1	30				
Aniline	77	77	35-95	0	30				
Anthracene	95	94	75-115	0	30				
Benzidine	57	50	35-141	13	30				
Benzo(a)anthracene	99	95	65-122	4	30				
Benzo(a)pyrene	99	99	57-126	1	30				
Benzo(b)fluoranthene	98	99	59-125	2	30				
Benzo(g,h,i)perylene	103	101	59-127	2	30				
Benzo(k)fluoranthene	104	100	56-132	3	30				
Benzoic acid	74	78	10-173	5	30				
Benzyl alcohol	89	94	67-115	6	30				
4-Bromophenyl-phenylether	98	100	67-129	2	30				
Butylbenzylphthalate	100	99	73-134	1	30				
Di-n-butylphthalate	97	97	67-123	0	30				
Carbazole	93	91	64-120	2	30				
4-Chloro-3-methylphenol	89	88	76-110	1	30				
4-Chloroaniline	74	60	23-95	21	30				
bis(2-Chloroethoxy)methane	92	91	75-104	1	30				
bis(2-Chloroethyl)ether	85	88	60-116	4	30				
bis(2-Chloroisopropyl)ether	83	88	55-142	6	30				
2-Chloronaphthalene	70	80	50-141	13	30				
2-Chlorophenol	91	94	73-121	4	30				
4-Chlorophenyl-phenylether	93	95	80-109	2	30				
Chrysene	96	92	62-128	4	30				
Dibenz(a,h)anthracene	102	104	65-125	3	30				
Dibenzofuran	94	94	71-112	1	30				
1,2-Dichlorobenzene	80	86	66-108	7	30				
1,3-Dichlorobenzene	80	86	63-109	7	30				
1,4-Dichlorobenzene	78	86	70-100	9	30				
3,3'-Dichlorobenzidine	82	69	16-119	16	30				
2,4-Dichlorophenol	95	96	78-117	1	30				
Diethylphthalate	90	90	66-118	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dimethylphenol	91	93	78-110	2	30				
3,5-Dimethylphenol	87	91	70-130	4	30				
Dimethylphthalate	93	93	64-118	0	30				
4,6-Dinitro-2-methylphenol	74	79	24-116	6	30				
2,4-Dinitrophenol	61	61	20-143	0	30				
2,4-Dinitrotoluene	91	88	73-113	3	30				
2,6-Dinitrotoluene	90	89	69-123	1	30				
1,2-Diphenylhydrazine	101	101	71-129	1	30				
bis(2-Ethylhexyl)phthalate	102	101	63-122	0	30				
Fluoranthene	96	93	73-112	2	30				
Fluorene	92	92	77-111	1	30				
Hexachlorobenzene	95	96	77-114	1	30				
Hexachlorobutadiene	90	93	62-120	3	30				
Hexachlorocyclopentadiene	81	84	10-153	4	30				
Hexachloroethane	76	82	57-109	9	30				
Indeno(1,2,3-cd)pyrene	102	102	61-126	1	30				
Isophorone	88	88	73-102	0	30				
1-Methylnaphthalene	93	93	73-112	1	30				
2-Methylnaphthalene	85	87	76-114	2	30				
2-Methylphenol	86	89	75-111	4	30				
4-Methylphenol	85	88	71-111	4	30				
Naphthalene	89	92	72-116	3	30				
2-Nitroaniline	92	92	67-125	0	30				
3-Nitroaniline	88	87	59-122	2	30				
4-Nitroaniline	74	67	52-112	9	30				
Nitrobenzene	88	89	72-106	2	30				
2-Nitrophenol	91	92	74-115	1	30				
4-Nitrophenol	78	74	54-113	5	30				
N-Nitroso-di-n-propylamine	81	84	60-116	3	30				
N-Nitrosodimethylamine	73	77	47-116	6	30				
N-Nitrosodiphenylamine	101	102	86-145	1	30				
Di-n-octylphthalate	112	112	56-126	0	30				
Pentachlorophenol	79	81	28-127	3	30				
Phenanthrene	95	94	65-125	1	30				
Phenol	83	84	58-126	2	30				
Pyrene	101	99	74-126	2	30				
1,2,4-Trichlorobenzene	93	94	72-115	2	30				
2,4,5-Trichlorophenol	92	91	78-109	1	30				
2,4,6-Trichlorophenol	98	100	77-115	2	30				
Batch number: 11098SLB026	Sample number(s): 6244289,6244291-6244298,6244300 UNSPK: 6244296								
N-Nitrosodimethylamine	71	75	70-130	6	30				
Batch number: 11091A34A	Sample number(s): 6244289,6244291-6244298,6244300 UNSPK: 6244296								
9a TPH by EPA 8015B Gas C5-C12	70	79	39-118	2	30				
Batch number: 110900050A	Sample number(s): 6244289,6244291-6244298,6244300 UNSPK: 6244296								
4-Amino-2,6-Dinitrotoluene	105	104	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	104	103	80-137	0	50				
1,3-Dinitrobenzene	104	104	38-166	0	50				
2,4-Dinitrotoluene	99	99	80-131	0	50				
2,6-Dinitrotoluene	104	103	80-127	2	50				
HMX	98	97	63-128	1	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nitrobenzene	99	96	80-125	3	50				
Nitroglycerin	95	95	80-120	0	50				
2-Nitrotoluene	104	102	80-122	2	50				
3-Nitrotoluene	104	102	72-119	2	50				
4-Nitrotoluene	102	100	80-125	2	50				
PETN	112	111	80-121	1	50				
RDX	107	104	75-129	2	50				
Tetryl	75	71	55-174	5	50				
1,3,5-Trinitrobenzene	100	98	82-126	3	50				
2,4,6-Trinitrotoluene	104	102	82-130	2	50				
Batch number: 110940004A	Sample number(s): 6244289,6244291-6244298,6244300 UNSPK: 6244296								
25a Formaldehyde 8315A	93	89	80-120	5	50				
Batch number: 110900028A	Sample number(s): 6244290 UNSPK: P235704								
6a Perchlorate EPA 6850	106	103	80-120	3	20				
Batch number: 110940035A	Sample number(s): 6244289-6244298,6244300 UNSPK: 6244296								
PCB-1016	90	90	29-146	0	50				
PCB-1260	102	98	39-149	3	50				
Batch number: 110920013A	Sample number(s): 6244289,6244291-6244298,6244300 UNSPK: 6244296								
EFH (C12-C14)	95	99	49-123	4	20				
EFH (C15-C20)	-568 (2)	-558 (2)	49-123	8	20				
EFH (C21-C30)	-7904 (2)	-8067 (2)	49-123	64*	20				
EFH (C30 - C40)	-25284 (2)	-25600 (2)	49-123	78*	20				
EFH (C8-C11)	127*	135*	49-123	5	20				
Batch number: 110900014A	Sample number(s): 6244289,6244291-6244298,6244300 UNSPK: 6244296								
Diethylene glycol	93	90	59-109	4	20				
Ethylene glycol	91	86	63-107	6	20				
Propylene glycol	95	87	63-107	9	20				
Batch number: 110900036A	Sample number(s): 6244289,6244291-6244298,6244300 UNSPK: 6244296								
Ethanol	79	76	48-130	4	20				
Isopropanol	82	79	12-149	4	20				
Methanol	79	76	43-138	4	20				
Batch number: 111020016A	Sample number(s): 6244289,6244291-6244298,6244300 UNSPK: 6244296								
m-Terphenyl	73*	77	75-125	6	20				
o-Terphenyl	87	89	75-125	2	20				
p-Terphenyl	76	77	75-125	2	20				
Batch number: 110941026001A	Sample number(s): 6244289-6244300 UNSPK: 6244296 BKG: 6244296								
Antimony	17*	47*	75-125	20	20	1.39	1.11	23*	20
Arsenic	150*	140*	75-125	3	20	4.43	4.88	10	20
Beryllium	110	113	75-125	1	20	0.515	0.566	10	20
Cadmium	98	116	75-125	9	20	0.680	0.751	10	20
Chromium	65*	170*	75-125	26*	20	27.4	27.9	2	20
Cobalt	118	115	75-125	4	20	5.86	6.54	11	20

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Quality Control Summary

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Reported: 04/21/11 at 04:26 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Copper	-10 (2)	228 (2)	75-125	45*	20	40.9	45.2	10	20
Lead	-109 (2)	136 (2)	75-125	9	20	75.9	78.7	4	20
Nickel	113	120	75-125	1	20	19.6	18.3	7	20
Silver	120	116	75-125	5	20	1.55	1.09	35*	20
Thallium	119	117	75-125	3	20	0.237	0.238	0 (1)	20
Zinc	-4 (2)	243 (2)	75-125	16	20	138	148	7	20
Batch number: 110941026001B	Sample number(s): 6244289-6244300 UNSPK: 6244296 BKG: 6244296								
Selenium	108	117	75-125	6	20	0.170 J	0.142 J	18 (1)	20
Batch number: 110941026001C	Sample number(s): 6244289-6244300 UNSPK: 6244296 BKG: 6244296								
Molybdenum	129*	132*	75-125	0	20	1.24	1.40	12	20
Batch number: 110941026001D	Sample number(s): 6244289-6244300 UNSPK: 6244296 BKG: 6244296								
Barium	5 (2)	8 (2)	75-125	0	20	128	124	3	20
Batch number: 110945708002	Sample number(s): 6244289-6244300 UNSPK: 6244296 BKG: 6244296								
Aluminum	1171 (2)	941 (2)	75-125	3	20	13,500	13,200	2	20
Boron	96	95	84-115	0	20	5.24	5.66	8 (1)	20
Calcium	52 (2)	1050 (2)	75-125	62*	20	4,190	4,670	11	20
Iron	181 (2)	2560 (2)	75-125	10	20	21,600	21,900	1	20
Lithium	104	103	82-114	0	20	22.2	23.1	4	20
Magnesium	113 (2)	175 (2)	75-125	3	20	4,300	4,340	1	20
Manganese	28 (2)	-80 (2)	75-125	14	20	396	302	27*	20
Phosphorus	91	119	75-125	6	20	357	371	4	20
Potassium	118	112	75-125	1	20	3,180	3,250	2	20
Sodium	101	104	75-125	3	20	95.0 J	85.6 J	10 (1)	20
Strontium	101	107	75-115	6	20	18.7	21.1	12	20
Tin	95	96	80-110	2	20	3.62 J	141	190* (1)	20
Titanium	209 (2)	176 (2)	75-125	2	20	1,220	1,200	2	20
Zirconium	99	100	75-125	2	20	4.13 J	4.21 J	2 (1)	20
Batch number: 110945711002	Sample number(s): 6244289-6244300 UNSPK: 6244296 BKG: 6244296								
Mercury	95	94	65-135	3	20	0.0052 J	0.0028 U	200* (1)	20
Batch number: 110971026001A	Sample number(s): 6244289-6244300 UNSPK: 6244296 BKG: 6244296								
Vanadium	149*	166*	75-125	3	20	29.0	33.7	15	20
Batch number: 11097097201A	Sample number(s): 6244289-6244294 UNSPK: P242767 BKG: P242767								
7a Perchlorate EPA 314.0	99		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11097097201B	Sample number(s): 6244295-6244297,6244299-6244300 UNSPK: 6244296 BKG: 6244296								
7a Perchlorate EPA 314.0	96		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11102102201A	Sample number(s): 6244289,6244291-6244297,6244299-6244300 UNSPK: 6244296 BKG: 6244296								
17a Cyanide by 9012B	110		75-125			0.17 U	0.17 U	0 (1)	20
Batch number: 11103243201A	Sample number(s): 6244289-6244297,6244299-6244300 UNSPK: 6244296 BKG: 6244296								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
3a Cr VI by EPA 7199	92		75-125			0.20	U	0.42	J	200* (1)	20
Batch number: 11103495201A	Sample number(s): 6244289-6244297,6244299-6244300 UNSPK: 6244296 BKG: 6244296										
11a Anions by 300.0 - Fluoride	97		90-110			1.3		1.0		27* (1)	20
11a Anions by 300.0 - Nitrate	99		90-110			1.3	J	1.3	J	5 (1)	20
Batch number: 11094039401A	Sample number(s): 6244289-6244291 BKG: 6244291										
18a pH by 9045C						8.11		8.13		0	1
Batch number: 11094039401B	Sample number(s): 6244292-6244296,6244299-6244300 BKG: 6244296										
18a pH by 9045C						7.95		8.00		1	1
Batch number: 11094182101A	Sample number(s): 6244289-6244291 BKG: 6244291										
32a OR Potential						393		403		3	6
Batch number: 11094182101B	Sample number(s): 6244292-6244296,6244299-6244300 BKG: 6244296										
32a OR Potential						405		432		6	6
Batch number: 11096162401A	Sample number(s): 6244290 BKG: P240605										
Moisture Content by 160.3						15.5		15.0		3	20
Batch number: 11102162401B	Sample number(s): 6244289,6244291-6244300 BKG: 6244296										
28a Moisture Content by 160.3						8.4		9.3		11	20
Moisture Content by 160.3						8.4		9.3		11	20
Moisture Content by 160.3						8.4		9.3		11	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110912AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6244289	97	100	101	92
6244290	96	98	101	90
6244291	97	100	101	91
6244292	97	101	100	92
6244293	98	101	100	91
6244294	97	101	101	88
6244295	97	99	106	83
6244296	97	99	100	90
6244297	98	98	120*	78
6244298	97	99	102	97
6244300	96	98	101	91
Blank	98	100	101	91
LCS	97	100	103	97
MS	98	98	120*	78
MSD	97	99	102	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Surrogate Quality Control

Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110901AA

	Toluene-d8
6244301	99
Blank	99
LCS	99
LCSD	99

Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110911AA

	Toluene-d8
6244289	97
6244290	97
6244291	98
6244292	97
6244293	99
6244294	97
6244295	98
6244296	97
6244297	98
6244298	97
6244300	97
Blank	97
LCS	98
LCSD	98
MS	98
MSD	97

Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110952AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6244301	105	103	99	95
Blank	108	103	100	93
LCS	107	103	101	99
LCSD	107	105	100	98

Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11094SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6244289	92	94	80
6244290	92	95	86
6244291	98	100	93
6244292	94	95	86
6244293	88	89	85

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Surrogate Quality Control

6244294	93	94	96
6244295	100	95	88
6244296	89	93	86
6244297	94	96	87
6244298	93	94	81
6244300	92	92	93
Blank	109	107	113
LCS	97	92	88
MS	94	96	87
MSD	93	94	81
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11095SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6244289	83	87	85	80	87	84
6244290	86	92	82	85	95	87
6244291	82	88	81	82	91	84
6244292	86	92	82	86	95	88
6244293	77	81	71	75	83	78
6244294	75	81	74	76	86	80
6244295	83	90	82	83	93	84
6244296	75	81	79	75	82	80
6244297	86	93	90	87	93	90
6244298	89	95	87	87	93	89
6244300	83	88	77	83	91	84
Blank	83	90	93	86	93	86
LCS	88	95	92	89	97	92
MS	86	93	90	87	93	90
MSD	89	95	87	87	93	89
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11098SLB026

	N-Nitrosodimethylamine-d6
6244289	125
6244291	107
6244292	111
6244293	103
6244294	111
6244295	114
6244296	137
6244297	115
6244298	112
6244300	81
Blank	99
LCS	108
MS	115
MSD	112
Limits:	50-150

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11091A34A

	Trifluorotoluene-F
6244289	81
6244291	77
6244292	75
6244293	81
6244294	82
6244295	79
6244296	80
6244297	79
6244298	85
6244300	79
Blank	80
LCS	85
MS	79
MSD	85
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11095B20A

	Trifluorotoluene-F
6244301	77
Blank	75
LCS	124
LCSD	117
Limits:	63-135

Analysis Name: 16a Energetics by 8330A
Batch number: 110900050A

	2-Nitro-m-xylene
6244289	112
6244291	106
6244292	114
6244293	112
6244294	114
6244295	109
6244296	108
6244297	105
6244298	113
6244300	118
Blank	116
LCS	113
LCSD	108
MS	105
MSD	113
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110940004A

	Butyraldehyde

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Surrogate Quality Control

6244289	84	
6244291	83	
6244292	81	
6244293	81	
6244294	83	
6244295	79	
6244296	89	
6244297	95	
6244298	93	
6244300	66	
Blank	84	
LCS	93	
MS	95	
MSD	93	
Limits:	64-126	

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110940035A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6244289	96	99
6244290	101	90
6244291	107	128*
6244292	94	98
6244293	97	109
6244294	105	102
6244295	114	99
6244296	89	99
6244297	90	102
6244298	83	103
6244300	93	104
Blank	86	101
LCS	92	109
LCSD	93	110
MS	90	102
MSD	83	103
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110900014A

	Tetramethylene glycol
6244289	74
6244291	76
6244292	76
6244293	72
6244294	82
6244295	60
6244296	77
6244297	88
6244298	83
6244300	68
Blank	101
LCS	100
MS	88

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Surrogate Quality Control

MSD	83	

Limits: 29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 110900036A

	Acetone
6244289	79
6244291	78
6244292	82
6244293	86
6244294	79
6244295	55
6244296	81
6244297	79
6244298	76
6244300	76
Blank	95
LCS	93
MS	79
MSD	76

Limits: 42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110920013A

	Chlorobenzene	Orthoterphenyl
6244289	77	92
6244291	70	91
6244292	71	90
6244293	77	91
6244294	74	92
6244295	86	98
6244296	80	87
6244297	81	95
6244298	83	94
6244300	75	90
Blank	77	91
LCS	81	93
MS	81	95
MSD	83	94

Limits: 37-125 47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111020016A

	n-Triacontane-d62
6244289	81
6244291	73
6244292	77
6244293	69
6244294	72
6244295	74
6244296	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239810
Reported: 04/21/11 at 04:26 PM

Surrogate Quality Control

6244297	85
6244298	71
6244300	75
Blank	85
LCS	84
MS	85
MSD	71
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1239810 6244289-301

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxins/Furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	*TPH-EH EPA 8015B Mod.	*Nitrates EPA 300.0	*Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenoids EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
DUP-11-SA5A-QC-033011	03.30.11	1002	SOIL	NONE	5-Encores/4-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	
DUP-12-SA5A-QC-033011	03.30.11	1111	SOIL	NONE	4-Encores/2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X											
SL-082-SA5A-SB-4.5	03.30.11	1556	SOIL	NONE	5-Encores										X	X	X										
SL-082-SA5A-SB-4.0-5.0	03.30.11	1603	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-083-SA5A-SB-4.5	03.30.11	1503	SOIL	NONE	5-Encores										X	X	X										
SL-083-SA5A-SB-4.0-5.0	03.30.11	1508	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-083-SA5A-SB-8.5	03.30.11	1511	SOIL	NONE	5-Encores										X	X	X										
SL-083-SA5A-SB-8.0-10.0	03.30.11	1513	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-090-SA5A-SB-4.5	03.30.11	1100	SOIL	NONE	5-Encores										X	X	X										
SL-090-SA5A-SB-4.0-5.0	03.30.11	1105	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-093-SA5A-SB-4.0	03.30.11	1215	SOIL	NONE	5-Encores										X	X	X										
SL-093-SA5A-SB-3.5-4.5	03.30.11	1220	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-222-SA5A-SB-4.0MS	03.30.11	0952	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-222-SA5A-SB-3.5-4.5MS	03.30.11	0957	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-257-SA5A-SB-3.0	03.30.11	0840	SOIL	NONE	5-Encores										X	X	X										
SL-257-SA5A-SB-2.5-3.5	03.30.11	0845	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-033011	03.30.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 03/30/2011 / 1700		Received for Laboratory by: (Signature) Barry Herlach 3/31/11 915																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8695 1432 4178,4156																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/31/2011
Group Number: 1239812
SDG: DX065
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-11-SA5A-QC-033011 Soil	6244306
DUP-12-SA5A-QC-033011 Soil	6244307
SL-082-SA5A-SB-4.0-5.0 Soil	6244308
SL-083-SA5A-SB-4.0-5.0 Soil	6244309
SL-083-SA5A-SB-9.0-10.0 Soil	6244310
SL-090-SA5A-SB-4.0-5.0 Soil	6244311
SL-093-SA5A-SB-3.5-4.5 Soil	6244312
SL-222-SA5A-SB-3.5-4.5 Soil	6244313
SL-222-SA5A-SB-3.5-4.5MS Soil	6244314
SL-222-SA5A-SB-3.5-4.5MSD Soil	6244315
SL-257-SA5A-SB-2.5-3.5 Soil	6244316

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-11-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5A-QC-033011

LLI Sample # SW 6244306
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 10:02

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP11 SDG#: DX065-12FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-11-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5A-QC-033011

LLI Sample # SW 6244306
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 10:02

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP11 SDG#: DX065-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0402	JQ	0.0355	1.11	1
11031	12378-PeCDD	40321-76-4	0.103	JBQ	0.0300	5.53	1
11031	123478-HxCDD	39227-28-6	0.103	JBQ	0.0300	5.53	1
11031	123678-HxCDD	57653-85-7	0.197	JBQ	0.0297	5.53	1
11031	123789-HxCDD	19408-74-3	0.190	JB	0.0281	5.53	1
11031	1234678-HpCDD	35822-46-9	1.21	JB	0.0311	5.53	1
11031	OCDD	3268-87-9	4.16	JB	0.0265	11.1	1
11031	2378-TCDF	51207-31-9	0.0706	JB	0.0387	1.11	1
11031	12378-PeCDF	57117-41-6	0.161	JBQ	0.0232	5.53	1
11031	23478-PeCDF	57117-31-4	0.169	JBQ	0.0212	5.53	1
11031	123478-HxCDF	70648-26-9	0.871	JBQ	0.0410	5.53	1
11031	123678-HxCDF	57117-44-9	0.133	JB	0.0276	5.53	1
11031	123789-HxCDF	72918-21-9	0.168	JBQ	0.0296	5.53	1
11031	234678-HxCDF	60851-34-5	0.176	JB	0.0229	5.53	1
11031	1234678-HpCDF	67562-39-4	0.300	JBQ	0.0175	5.53	1
11031	1234789-HpCDF	55673-89-7	0.101	JBQ	0.0221	5.53	1
11031	OCDF	39001-02-0	0.384	JB	0.0291	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-11-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5A-QC-033011

LLI Sample # SW 6244306
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 10:02

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP11 SDG#: DX065-12FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-11-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5A-QC-033011

LLI Sample # SW 6244306
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 10:02

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP11 SDG#: DX065-12FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 15:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-12-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5A-QC-033011

LLI Sample # SW 6244307
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:11

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP12 SDG#: DX065-13FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-12-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5A-QC-033011

LLI Sample # SW 6244307
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:11

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP12 SDG#: DX065-13FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0526	JQ	0.0383	1.11	1
11031	12378-PeCDD	40321-76-4	0.482	JB	0.0412	5.53	1
11031	123478-HxCDD	39227-28-6	0.332	JB	0.0336	5.53	1
11031	123678-HxCDD	57653-85-7	1.04	JB	0.0344	5.53	1
11031	123789-HxCDD	19408-74-3	0.780	JB	0.0299	5.53	1
11031	1234678-HpCDD	35822-46-9	8.87	B	0.0362	5.53	1
11031	OCDD	3268-87-9	55.1	B	0.0264	11.1	1
11031	2378-TCDF	51207-31-9	0.182	JB	0.0622	1.11	1
11031	12378-PeCDF	57117-41-6	0.513	JB	0.0270	5.53	1
11031	23478-PeCDF	57117-31-4	0.925	JB	0.0260	5.53	1
11031	123478-HxCDF	70648-26-9	1.02	JB	0.0315	5.53	1
11031	123678-HxCDF	57117-44-9	0.690	JB	0.0249	5.53	1
11031	123789-HxCDF	72918-21-9	0.361	JB	0.0203	5.53	1
11031	234678-HxCDF	60851-34-5	0.694	JB	0.0219	5.53	1
11031	1234678-HpCDF	67562-39-4	2.76	JB	0.0193	5.53	1
11031	1234789-HpCDF	55673-89-7	0.520	JB	0.0218	5.53	1
11031	OCDF	39001-02-0	2.83	JB	0.0221	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	86	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-12-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5A-QC-033011

LLI Sample # SW 6244307
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:11

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP12 SDG#: DX065-13FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-12-SA5A-QC-033011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5A-QC-033011

LLI Sample # SW 6244307
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:11

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP12 SDG#: DX065-13FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 16:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-082-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5A-SB-4.0-5.0

LLI Sample # SW 6244308
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 16:03

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX065-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-082-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5A-SB-4.0-5.0

LLI Sample # SW 6244308
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 16:03

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX065-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.37		0.0591	1.11	1
11031	12378-PeCDD	40321-76-4	7.49	B	0.0881	5.57	1
11031	123478-HxCDD	39227-28-6	22.7	B	0.0961	5.57	1
11031	123678-HxCDD	57653-85-7	26.6	B	0.0928	5.57	1
11031	123789-HxCDD	19408-74-3	17.9	B	0.0817	5.57	1
11031	1234678-HpCDD	35822-46-9	694	B	0.121	5.57	1
11031	OCDD	3268-87-9	1,410	B	0.0682	11.1	1
11031	2378-TCDF	51207-31-9	0.751	JBQ	0.0631	1.11	1
11031	12378-PeCDF	57117-41-6	1.32	JB	0.0320	5.57	1
11031	23478-PeCDF	57117-31-4	2.75	JB	0.0333	5.57	1
11031	123478-HxCDF	70648-26-9	2.85	JB	0.0843	5.57	1
11031	123678-HxCDF	57117-44-9	4.31	JB	0.0602	5.57	1
11031	123789-HxCDF	72918-21-9	0.759	JB	0.0471	5.57	1
11031	234678-HxCDF	60851-34-5	2.14	JB	0.0467	5.57	1
11031	1234678-HpCDF	67562-39-4	28.5	B	0.0422	5.57	1
11031	1234789-HpCDF	55673-89-7	2.29	JB	0.0420	5.57	1
11031	OCDF	39001-02-0	94.3	B	0.0364	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	81	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-082-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5A-SB-4.0-5.0

LLI Sample # SW 6244308
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 16:03

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX065-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-082-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5A-SB-4.0-5.0

LLI Sample # SW 6244308
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 16:03

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX065-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 17:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-083-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-4.0-5.0

LLI Sample # SW 6244309
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:08

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD834 SDG#: DX065-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-083-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-4.0-5.0

LLI Sample # SW 6244309
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:08

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD834 SDG#: DX065-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0827 JQ	0.0439	1.06	1
11031	12378-PeCDD	40321-76-4	0.120 JBQ	0.0388	5.31	1
11031	123478-HxCDD	39227-28-6	0.140 JB	0.0361	5.31	1
11031	123678-HxCDD	57653-85-7	0.0800 JB	0.0340	5.31	1
11031	123789-HxCDD	19408-74-3	0.148 JB	0.0295	5.31	1
11031	1234678-HpCDD	35822-46-9	0.484 JB	0.0375	5.31	1
11031	OCDD	3268-87-9	1.38 JB	0.0339	10.6	1
11031	2378-TCDF	51207-31-9	0.0478 JBQ	0.0369	1.06	1
11031	12378-PeCDF	57117-41-6	0.158 JBQ	0.0198	5.31	1
11031	23478-PeCDF	57117-31-4	0.245 JBQ	0.0203	5.31	1
11031	123478-HxCDF	70648-26-9	0.195 JB	0.0442	5.31	1
11031	123678-HxCDF	57117-44-9	0.163 JB	0.0299	5.31	1
11031	123789-HxCDF	72918-21-9	0.130 JB	0.0220	5.31	1
11031	234678-HxCDF	60851-34-5	0.171 JB	0.0194	5.31	1
11031	1234678-HpCDF	67562-39-4	0.308 JBQ	0.0232	5.31	1
11031	1234789-HpCDF	55673-89-7	0.107 JBQ	0.0216	5.31	1
11031	OCDF	39001-02-0	0.317 JB	0.0353	10.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	55	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	30	26 - 152
13C12-123678-HxCDF	44	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-083-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-4.0-5.0

LLI Sample # SW 6244309
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:08

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD834 SDG#: DX065-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-083-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-4.0-5.0

LLI Sample # SW 6244309
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:08

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD834 SDG#: DX065-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 18:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-083-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-9.0-10.0

LLI Sample # SW 6244310
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:13

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD839 SDG#: DX065-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-083-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-9.0-10.0

LLI Sample # SW 6244310
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:13

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD839 SDG#: DX065-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0626	U	0.0626	1.02	1
11031	12378-PeCDD	40321-76-4	0.325	JB	0.0621	5.09	1
11031	123478-HxCDD	39227-28-6	0.165	JBQ	0.0533	5.09	1
11031	123678-HxCDD	57653-85-7	0.255	JB	0.0529	5.09	1
11031	123789-HxCDD	19408-74-3	0.142	JB	0.0486	5.09	1
11031	1234678-HpCDD	35822-46-9	0.822	JB	0.0644	5.09	1
11031	OCDD	3268-87-9	7.66	JB	0.0613	10.2	1
11031	2378-TCDF	51207-31-9	0.0583	U	0.0583	1.02	1
11031	12378-PeCDF	57117-41-6	0.215	JBQ	0.0314	5.09	1
11031	23478-PeCDF	57117-31-4	0.248	JBQ	0.0325	5.09	1
11031	123478-HxCDF	70648-26-9	0.263	JB	0.0590	5.09	1
11031	123678-HxCDF	57117-44-9	0.254	JBQ	0.0385	5.09	1
11031	123789-HxCDF	72918-21-9	0.234	JBQ	0.0395	5.09	1
11031	234678-HxCDF	60851-34-5	0.222	JBQ	0.0327	5.09	1
11031	1234678-HpCDF	67562-39-4	0.417	JB	0.0355	5.09	1
11031	1234789-HpCDF	55673-89-7	0.188	JB	0.0467	5.09	1
11031	OCDF	39001-02-0	0.535	JB	0.0724	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: SL-083-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-9.0-10.0

LLI Sample # SW 6244310
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:13

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD839 SDG#: DX065-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-083-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5A-SB-9.0-10.0

LLI Sample # SW 6244310
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 15:13

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD839 SDG#: DX065-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 19:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-090-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5A-SB-4.0-5.0

LLI Sample # SW 6244311
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:05

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX065-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-090-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5A-SB-4.0-5.0

LLI Sample # SW 6244311
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:05

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX065-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0541	JQ	0.0366	1.10	1
11031	12378-PeCDD	40321-76-4	0.266	JB	0.0433	5.52	1
11031	123478-HxCDD	39227-28-6	0.288	JBQ	0.0418	5.52	1
11031	123678-HxCDD	57653-85-7	0.868	JB	0.0392	5.52	1
11031	123789-HxCDD	19408-74-3	0.535	JB	0.0376	5.52	1
11031	1234678-HpCDD	35822-46-9	12.1	B	0.0356	5.52	1
11031	OCDD	3268-87-9	78.4	B	0.0294	11.0	1
11031	2378-TCDF	51207-31-9	0.210	JBQ	0.0557	1.10	1
11031	12378-PeCDF	57117-41-6	0.391	JB	0.0272	5.52	1
11031	23478-PeCDF	57117-31-4	0.761	JBQ	0.0257	5.52	1
11031	123478-HxCDF	70648-26-9	0.665	JB	0.0406	5.52	1
11031	123678-HxCDF	57117-44-9	0.501	JB	0.0312	5.52	1
11031	123789-HxCDF	72918-21-9	0.245	JB	0.0275	5.52	1
11031	234678-HxCDF	60851-34-5	0.551	JB	0.0251	5.52	1
11031	1234678-HpCDF	67562-39-4	2.39	JB	0.0200	5.52	1
11031	1234789-HpCDF	55673-89-7	0.325	JB	0.0193	5.52	1
11031	OCDF	39001-02-0	3.79	JB	0.0249	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	106	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	90	26 - 138
13C12-OCDF	93	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-090-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5A-SB-4.0-5.0

LLI Sample # SW 6244311
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:05

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX065-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-090-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5A-SB-4.0-5.0

LLI Sample # SW 6244311
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 11:05

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX065-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 19:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-093-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5A-SB-3.5-4.5

LLI Sample # SW 6244312
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 12:20

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD093 SDG#: DX065-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-093-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5A-SB-3.5-4.5

LLI Sample # SW 6244312
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 12:20

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD093 SDG#: DX065-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.300	JQ	0.0820	1.14	1
11031	12378-PeCDD	40321-76-4	1.51	JBQ	0.100	5.68	1
11031	123478-HxCDD	39227-28-6	2.26	JB	0.0597	5.68	1
11031	123678-HxCDD	57653-85-7	5.90	B	0.0600	5.68	1
11031	123789-HxCDD	19408-74-3	4.91	JB	0.0578	5.68	1
11031	1234678-HpCDD	35822-46-9	106	B	0.0746	5.68	1
11031	OCDD	3268-87-9	295	B	0.0586	11.4	1
11031	2378-TCDF	51207-31-9	3.48	BC	0.151	1.14	1
11650	2378-TCDF-Conf	51207-31-9	3.84	B	0.224	1.14	1
11031	12378-PeCDF	57117-41-6	3.50	JBQ	0.0480	5.68	1
11031	23478-PeCDF	57117-31-4	3.97	JB	0.0478	5.68	1
11031	123478-HxCDF	70648-26-9	4.32	JB	0.0625	5.68	1
11031	123678-HxCDF	57117-44-9	3.08	JB	0.0472	5.68	1
11031	123789-HxCDF	72918-21-9	0.720	JB	0.0537	5.68	1
11031	234678-HxCDF	60851-34-5	3.26	JB	0.0440	5.68	1
11031	1234678-HpCDF	67562-39-4	10.6	B	0.0295	5.68	1
11031	1234789-HpCDF	55673-89-7	0.940	JB	0.0420	5.68	1
11031	OCDF	39001-02-0	8.78	JB	0.0512	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	56	25 - 164
13C12-2378-TCDF-Conf	45	24 - 169
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	53	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	105	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-093-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5A-SB-3.5-4.5

LLI Sample # SW 6244312
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 12:20

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD093 SDG#: DX065-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-093-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5A-SB-3.5-4.5

LLI Sample # SW 6244312
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 12:20

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD093 SDG#: DX065-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 20:55	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11095001	04/22/2011 02:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244313
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD222 SDG#: DX065-19BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244313
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD222 SDG#: DX065-19BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	4.91		0.145	1.09	1
11031	12378-PeCDD	40321-76-4	34.9	B	0.0830	5.43	1
11031	123478-HxCDD	39227-28-6	41.0	B	0.108	5.43	1
11031	123678-HxCDD	57653-85-7	90.6	B	0.100	5.43	1
11031	123789-HxCDD	19408-74-3	64.2	B	0.0775	5.43	1
11031	1234678-HpCDD	35822-46-9	896	B	0.148	5.43	1
11031	OCDD	3268-87-9	2,420	B	0.0648	10.9	1
11031	2378-TCDF	51207-31-9	52.4	BC	0.215	1.09	1
11650	2378-TCDF-Conf	51207-31-9	50.0	B	0.0834	1.09	1
11031	12378-PeCDF	57117-41-6	89.7	B	0.0568	5.43	1
11031	23478-PeCDF	57117-31-4	187	B	0.0552	5.43	1
11031	123478-HxCDF	70648-26-9	225	B	0.140	5.43	1
11031	123678-HxCDF	57117-44-9	197	B	0.117	5.43	1
11031	123789-HxCDF	72918-21-9	79.8	B	0.0770	5.43	1
11031	234678-HxCDF	60851-34-5	369	B	0.0789	5.43	1
11031	1234678-HpCDF	67562-39-4	964	B	0.119	5.43	1
11031	1234789-HpCDF	55673-89-7	136	B	0.0865	5.43	1
11031	OCDF	39001-02-0	624	B	0.0605	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-2378-TCDF-Conf	68	24 - 169
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	79	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244313
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD222 SDG#: DX065-19BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244313
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD222 SDG#: DX065-19BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/13/2011 21:51	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11095001	05/10/2011 14:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244314
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD222 SDG#: DX065-19MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244314
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD222 SDG#: DX065-19MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.3		0.0682	1.09	1
11031	12378-PeCDD	40321-76-4	115	B	0.0738	5.43	1
11031	123478-HxCDD	39227-28-6	117	B	0.0476	5.43	1
11031	123678-HxCDD	57653-85-7	120	B	0.0474	5.43	1
11031	123789-HxCDD	19408-74-3	118	B	0.0463	5.43	1
11031	1234678-HpCDD	35822-46-9	187	B	0.0650	5.43	1
11031	OCDD	3268-87-9	470	B	0.0461	10.9	1
11031	2378-TCDF	51207-31-9	25.2	B	0.0892	1.09	1
11031	12378-PeCDF	57117-41-6	114	B	0.0366	5.43	1
11031	23478-PeCDF	57117-31-4	114	B	0.0354	5.43	1
11031	123478-HxCDF	70648-26-9	115	B	0.0917	5.43	1
11031	123678-HxCDF	57117-44-9	115	B	0.0648	5.43	1
11031	123789-HxCDF	72918-21-9	111	B	0.0548	5.43	1
11031	234678-HxCDF	60851-34-5	116	B	0.0535	5.43	1
11031	1234678-HpCDF	67562-39-4	121	B	0.0476	5.43	1
11031	1234789-HpCDF	55673-89-7	113	B	0.0520	5.43	1
11031	OCDF	39001-02-0	234	B	0.0385	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	86	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244314
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD222 SDG#: DX065-19MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244314
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD222 SDG#: DX065-19MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/14/2011 01:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244315
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD222 SDG#: DX065-19MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244315
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD222 SDG#: DX065-19MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.1		0.0502	1.08	1
11031	12378-PeCDD	40321-76-4	111	B	0.0479	5.42	1
11031	123478-HxCDD	39227-28-6	115	B	0.0394	5.42	1
11031	123678-HxCDD	57653-85-7	113	B	0.0397	5.42	1
11031	123789-HxCDD	19408-74-3	112	B	0.0372	5.42	1
11031	1234678-HpCDD	35822-46-9	112	B	0.0495	5.42	1
11031	OCDD	3268-87-9	224	B	0.0376	10.8	1
11031	2378-TCDF	51207-31-9	23.1	B	0.0467	1.08	1
11031	12378-PeCDF	57117-41-6	112	B	0.0303	5.42	1
11031	23478-PeCDF	57117-31-4	111	B	0.0283	5.42	1
11031	123478-HxCDF	70648-26-9	111	B	0.0654	5.42	1
11031	123678-HxCDF	57117-44-9	111	B	0.0498	5.42	1
11031	123789-HxCDF	72918-21-9	109	B	0.0529	5.42	1
11031	234678-HxCDF	60851-34-5	112	B	0.0469	5.42	1
11031	1234678-HpCDF	67562-39-4	111	B	0.0320	5.42	1
11031	1234789-HpCDF	55673-89-7	114	B	0.0464	5.42	1
11031	OCDF	39001-02-0	222	B	0.0445	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244315
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD222 SDG#: DX065-19MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6244315
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD222 SDG#: DX065-19MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11095001	04/14/2011 02:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11095001	04/05/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-257-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SB-2.5-3.5

LLI Sample # SW 6244316
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:45

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD257 SDG#: DX065-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-257-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SB-2.5-3.5

LLI Sample # SW 6244316
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:45

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD257 SDG#: DX065-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0178 U	0.0178	1.06	1
11031	12378-PeCDD	40321-76-4	0.0484 JBQ	0.0150	5.32	1
11031	123478-HxCDD	39227-28-6	0.0126 U	0.0126	5.32	1
11031	123678-HxCDD	57653-85-7	0.0316 JBQ	0.0134	5.32	1
11031	123789-HxCDD	19408-74-3	0.0384 JB	0.0123	5.32	1
11031	1234678-HpCDD	35822-46-9	0.236 JB	0.0214	5.32	1
11031	OCDD	3268-87-9	0.467 JB	0.0228	10.6	1
11031	2378-TCDF	51207-31-9	0.0190 JQ	0.0147	1.06	1
11031	12378-PeCDF	57117-41-6	0.0648 JBQ	0.00791	5.32	1
11031	23478-PeCDF	57117-31-4	0.103 JB	0.00770	5.32	1
11031	123478-HxCDF	70648-26-9	0.0500 JB	0.0116	5.32	1
11031	123678-HxCDF	57117-44-9	0.0430 JB	0.0103	5.32	1
11031	123789-HxCDF	72918-21-9	0.0652 JBQ	0.0114	5.32	1
11031	234678-HxCDF	60851-34-5	0.0605 JBQ	0.00973	5.32	1
11031	1234678-HpCDF	67562-39-4	0.108 JB	0.00824	5.32	1
11031	1234789-HpCDF	55673-89-7	0.0482 JBQ	0.0116	5.32	1
11031	OCDF	39001-02-0	0.115 JB	0.0203	10.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-257-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SB-2.5-3.5

LLI Sample # SW 6244316
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:45

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD257 SDG#: DX065-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-257-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5A-SB-2.5-3.5

LLI Sample # SW 6244316
LLI Group # 1239812
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 08:45

Submitted: 03/31/2011 09:15
Reported: 05/13/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD257 SDG#: DX065-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118001	05/02/2011 19:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118001	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401B	04/12/2011 17:41	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239812
Reported: 05/13/11 at 01:10 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11096162401A	Sample number(s): 6244307								
Moisture Content by 160.3					100		80-120		
Batch number: 11102162401B	Sample number(s): 6244306,6244308-6244316								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11095001	Sample number(s): 6244306-6244315								
2378-TCDD	0.0273 U	0.0273	1.00	ng/kg	98		67-158		
12378-PeCDD	0.131 J	0.0316	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0888 J	0.0197	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0837 J	0.0197	5.00	ng/kg	105		76-134		
123789-HxCDD	0.115 J	0.0192	5.00	ng/kg	105		64-162		
1234678-HpCDD	0.280 J	0.0231	5.00	ng/kg	104		70-140		
OCDD	1.16 J	0.0205	10.0	ng/kg	102		78-144		
2378-TCDF	0.0414 J	0.0248	1.00	ng/kg	113		75-158		
2378-TCDF-Conf	0.0705 J	0.0314	1.00	ng/kg					
12378-PeCDF	0.130 J	0.0133	5.00	ng/kg	103		80-134		
23478-PeCDF	0.187 J	0.0130	5.00	ng/kg	104		68-160		
123478-HxCDF	0.170 J	0.0200	5.00	ng/kg	103		72-134		
123678-HxCDF	0.123 J	0.0163	5.00	ng/kg	106		84-130		
123789-HxCDF	0.140 J	0.0167	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0964 J	0.0153	5.00	ng/kg	104		70-156		
1234678-HpCDF	0.140 J	0.0103	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.105 J	0.0134	5.00	ng/kg	104		78-138		
OCDF	0.274 J	0.0243	10.0	ng/kg	104		63-170		
Batch number: 11118001	Sample number(s): 6244316								
2378-TCDD	0.0169 U	0.0169	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0328 J	0.0168	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0344 J	0.0161	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0404 J	0.0168	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0363 J	0.0163	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.196 J	0.0268	5.00	ng/kg	100		70-140		
OCDD	0.335 J	0.0257	10.0	ng/kg	100		78-144		
2378-TCDF	0.0133 U	0.0133	1.00	ng/kg	108		75-158		
12378-PeCDF	0.0530 J	0.00830	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0749 J	0.00810	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0551 J	0.0121	5.00	ng/kg	102		72-134		
123678-HxCDF	0.0487 J	0.0108	5.00	ng/kg	100		84-130		
123789-HxCDF	0.0825 J	0.0122	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0527 J	0.0105	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.123 J	0.0111	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.0591 J	0.0153	5.00	ng/kg	101		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239812
Reported: 05/13/11 at 01:10 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.162	J	0.0245	10.0	ng/kg	105		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11096162401A	Sample number(s): 6244307 BKG: P240605								
Moisture Content by 160.3						15.5	15.0	3	20
Batch number: 11102162401B	Sample number(s): 6244306,6244308-6244316 BKG: P244296								
Moisture Content by 160.3						8.4	9.3	11	20
Batch number: 11095001	Sample number(s): 6244306-6244315 UNSPK: 6244313								
2378-TCDD	80	79	67-158	1	25				
12378-PeCDD	73	70	70-142	3	25				
123478-HxCDD	70	68*	70-164	2	25				
123678-HxCDD	27*	20*	76-134	6	25				
123789-HxCDD	49*	44*	64-162	6	25				
1234678-HpCDD	-652 (2)	-723 (2)	70-140	50*	25				
OCDD	-897 (2)	-1012 (2)	78-144	71*	25				
2378-TCDF	-124*	-134*	75-158	9	25				
12378-PeCDF	23*	21*	80-134	2	25				
23478-PeCDF	-66*	-69*	68-160	2	25				
123478-HxCDF	-100*	-104*	72-134	4	25				
123678-HxCDF	-75*	-79*	84-130	4	25				
123789-HxCDF	29*	27*	78-130	2	25				
234678-HxCDF	-232*	-236*	70-156	4	25				
1234678-HpCDF	-775 (2)	-786 (2)	82-122	9	25				
1234789-HpCDF	-20*	-19*	78-138	1	25				
OCDF	-179*	-184*	63-170	5	25				
Batch number: 11118001	Sample number(s): 6244316 UNSPK: P255771								
2378-TCDD	99	96	67-158	3	25				
12378-PeCDD	102	101	70-142	0	25				
123478-HxCDD	102	101	70-164	1	25				
123678-HxCDD	101	102	76-134	1	25				
123789-HxCDD	100	100	64-162	0	25				
1234678-HpCDD	99	100	70-140	1	25				
OCDD	101	101	78-144	0	25				
2378-TCDF	104	104	75-158	0	25				
12378-PeCDF	100	99	80-134	1	25				
23478-PeCDF	100	100	68-160	0	25				
123478-HxCDF	101	102	72-134	0	25				
123678-HxCDF	99	99	84-130	0	25				
123789-HxCDF	98	98	78-130	0	25				
234678-HxCDF	101	102	70-156	1	25				
1234678-HpCDF	100	101	82-122	1	25				
1234789-HpCDF	102	101	78-138	1	25				
OCDF	106	105	63-170	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239812
Reported: 05/13/11 at 01:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11095001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6244306	73	84	43	62	73	68
6244307	82	82	57	70	74	90
6244308	83	82	42	60	78	83
6244309	65	63	30	44	64	63
6244310	72	71	43	62	72	71
6244311	83	88	50	65	81	86
6244312	56	63	44	56	61	56
6244313	78	72	42	51	75	85
6244314	83	85	47	66	78	84
6244315	68	79	53	68	72	72
Blank	73	75	59	71	76	77
MS	83	85	47	66	78	84
MSD	68	79	53	68	72	72
OPR	75	71	44	62	73	78
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6244306	82	75	70	89	88	77
6244307	84	87	86	87	91	78
6244308	71	85	81	88	92	75
6244309	52	66	59	84	71	55
6244310	73	67	61	92	75	74
6244311	74	90	93	92	90	80
6244312	71	60	55	105	68	63
6244313	54	84	79	79	86	61
6244314	76	81	86	94	90	79
6244315	88	72	71	89	82	74
Blank	87	77	79	95	80	79
MS	76	81	86	94	90	79
MSD	88	72	71	89	82	74
OPR	70	70	67	88	75	75
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6244306	78	82	89	93	70	85

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239812
Reported: 05/13/11 at 01:10 PM

Surrogate Quality Control

6244307	77	86	93	98	76	88
6244308	83	91	96	103	78	92
6244309	63	71	75	77	62	72
6244310	77	82	82	84	71	79
6244311	83	88	96	106	82	92
6244312	64	66	74	76	53	67
6244313	67	85	84	96	78	77
6244314	82	83	93	100	79	92
6244315	75	80	84	87	63	78
Blank	81	82	89	94	71	80
MS	82	83	93	100	79	92
MSD	75	80	84	87	63	78
OPR	78	78	82	80	70	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6244306	
6244307	
6244308	
6244309	
6244310	
6244311	
6244312	45
6244313	68
6244314	
6244315	
Blank	66
MS	
MSD	
OPR	
Limits:	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11118001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6244316	69	73	67	74	78	74
Blank	76	75	69	76	77	76
MS	69	73	69	75	77	76
MSD	70	72	65	73	75	73
OPR	62	64	60	67	68	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6244316	89	75	72	87	77	81
Blank	92	77	75	103	81	84
MS	87	75	70	87	77	83
MSD	86	74	70	85	77	81
OPR	84	66	64	80	69	74
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1239812
Reported: 05/13/11 at 01:10 PM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6244316	82	84	87	88	65	76
Blank	86	86	90	92	71	79
MS	80	82	83	83	68	77
MSD	80	82	84	84	67	79
OPR	72	76	81	83	58	69
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1239812 6244306-16

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which 5Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/RCTs EPA 8082	*Diuron/Fenuron EPA 8015B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TRH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**p-NitroA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP-11-SA5A-QC-033011	03.30.11	1002	SOIL	NONE	5-Encores/4-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	
DUP-12-SA5A-QC-033011	03.30.11	1111	SOIL	NONE	4-Encores/2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X											
SL-082-SA5A-SB-4.5	03.30.11	1558	SOIL	NONE	5-Encores										X	X	X										
SL-082-SA5A-SB-4.0-5.0	03.30.11	1603	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-083-SA5A-SB-4.5	03.30.11	1503	SOIL	NONE	5-Encores										X	X	X										
SL-083-SA5A-SB-4.0-5.0	03.30.11	1508	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-083-SA5A-SB-9.5	03.30.11	1511	SOIL	NONE	5-Encores										X	X	X										
SL-083-SA5A-SB-9.0-10.0	03.30.11	1513	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-090-SA5A-SB-4.5	03.30.11	1100	SOIL	NONE	5-Encores										X	X	X										
SL-090-SA5A-SB-4.0-5.0	03.30.11	1105	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-093-SA5A-SB-4.0	03.30.11	1215	SOIL	NONE	5-Encores										X	X	X										
SL-093-SA5A-SB-3.5-4.5	03.30.11	1220	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-222-SA5A-SB-4.0MS	03.30.11	0952	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-222-SA5A-SB-3.5-4.5MS	03.30.11	0957	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-257-SA5A-SB-3.0	03.30.11	0840	SOIL	NONE	5-Encores										X	X	X										
SL-257-SA5A-SB-2.5-3.5	03.30.11	0845	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-033011	03.30.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	03/30/2011 / 1700	Barry Berlach 3/31/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1432 4178,4156	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/01/2011
Group Number: 1240016
SDG: DE116
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-094-SA5A-SB-4.0-5.0 Soil	6245566
SL-094-SA5A-SB-9.0-10.0 Soil	6245567
SL-089-SA5A-SB-4.0-5.0 Soil	6245568
SL-089-SA5A-SB-9.0-10.0 Soil	6245569
SL-075-SA5A-SB-2.5-3.5 Soil	6245570
TB-033111 Water	6245571

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-094-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-4.0-5.0

LLI Sample # SW 6245566
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:15

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0944 SDG#: DE116-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.91
06192	Benzene	71-43-2	0.11	J	0.1	4.0		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.91
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.91
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.91
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.91
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.91
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.91
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.91
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.91
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.91
06192	Methylene Chloride	75-09-2	0.68	J	0.24	4.0		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.91

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-094-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-4.0-5.0

LLI Sample # SW 6245566
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:15

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0944 SDG#: DE116-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.91
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.99
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	178	U	178	356		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)pyrene	50-32-8	42	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1

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Sample Description: SL-094-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-4.0-5.0

LLI Sample # SW 6245566
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:15

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0944 SDG#: DE116-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.8		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.90	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	11	J	6.5	20		1
10138	Chrysene	218-01-9	2.4		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	7.0	J	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1

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Sample Description: SL-094-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-4.0-5.0

LLI Sample # SW 6245566
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:15

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0944 SDG#: DE116-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.87	J	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.5
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-4.0-5.0

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S0944 SDG#: DE116-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	12		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	1.4	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	1.4	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13		10
10199	EFH (C15-C20)	n.a.	4.3	U	4.3	13		10
10199	EFH (C21-C30)	n.a.	77		4.3	13		10
10199	EFH (C30 - C40)	n.a.	210		4.3	13		10
10199	EFH (C8-C11)	n.a.	4.3	U	4.3	13		10

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Sample Description: SL-094-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-4.0-5.0

LLI Sample # SW 6245566
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:15

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0944 SDG#: DE116-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.47	21.7		1
07914	Boron	7440-42-8	3.73	J	0.967	5.43		1
01650	Calcium	7440-70-2	6,190		6.66	21.7		1
01654	Iron	7439-89-6	23,100		5.12	21.7		1
01656	Lithium	7439-93-2	26.4		0.24	2.2		1
01657	Magnesium	7439-95-4	5,750		2.76	10.9		1
06958	Manganese	7439-96-5	299		0.0848	0.543		1
10145	Phosphorus	7723-14-0	407		0.609	10.9		1
01662	Potassium	7440-09-7	2,840		19.6	54.3		1
01667	Sodium	7440-23-5	135		40.5	109		1
07968	Strontium	7440-24-6	24.0		0.0674	0.543		1
06969	Tin	7440-31-5	3.39	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,260		0.413	1.09		1
10146	Zirconium	7440-67-7	3.23	J	0.913	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.371		0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.13		0.0844	0.422		2
06126	Barium	7440-39-3	119		0.114	0.422		2
06127	Beryllium	7440-41-7	0.577		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.445		0.0422	0.106		2
06131	Chromium	7440-47-3	21.7		0.127	0.422		2
06132	Cobalt	7440-48-4	6.92		0.0211	0.106		2
06133	Copper	7440-50-8	61.0		0.0696	0.422		2
06135	Lead	7439-92-1	11.5		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.839		0.0528	0.106		2
06139	Nickel	7440-02-0	14.6		0.106	0.422		2
06141	Selenium	7782-49-2	0.167	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.225		0.0127	0.106		2
06145	Thallium	7440-28-0	0.287		0.0317	0.106		2
06148	Vanadium	7440-62-2	34.2		0.0237	0.108		2
06149	Zinc	7440-66-6	107		0.591	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0061	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.0		0.87	1.6		1

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Sample Description: **SL-094-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-4.0-5.0

LLI Sample # SW 6245566
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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S0944 SDG#: DE116-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	499		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.46		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-094-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011 21:35	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110942AA	04/04/2011 15:31	Jason M Long	23.99
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109123993	04/01/2011 14:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109123993	04/01/2011 14:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109123993	04/01/2011 14:28	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-094-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-4.0-5.0

LLI Sample # SW 6245566
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:15

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0944 SDG#: DE116-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109123993	04/01/2011 14:16	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/20/2011 11:08	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11102SLH026	04/15/2011 02:33	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11101SLB026	04/12/2011 13:37	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11101SLB026	04/11/2011 18:45	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11102SLH026	04/13/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34B	04/05/2011 11:08	Marie D John	23.5
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109123993	04/01/2011 14:15	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111010012A	04/13/2011 11:03	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/07/2011 00:18	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 02:51	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111010012A	04/11/2011 16:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110920013A	04/07/2011 14:07	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	110950026A	04/05/2011 19:57	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110940011A	04/04/2011 22:16	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 12:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110920013A	04/04/2011 17:10	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110940011A	04/04/2011 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110950026A	04/05/2011 17:35	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 04:37	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:45	Choon Y Tian	2

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Sample Description: **SL-094-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-4.0-5.0

LLI Sample # SW 6245566
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:15

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0944 SDG#: DE116-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201A	04/16/2011 08:40	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11105105201A	04/16/2011 08:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201B	04/12/2011 09:57	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11107243201A	04/19/2011 00:57	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201A	04/13/2011 20:52	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201A	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201B	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201A	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101B	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401B	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-094-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-9.0-10.0

LLI Sample # SW 6245567
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:33

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0949 SDG#: DE116-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.3		1.01
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		1.01
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		1.01
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		1.01
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		1.01
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		1.01
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		1.01
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		1.01
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		1.01
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		1.01
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		1.01
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		1.01
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		1.01
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		1.01
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		1.01
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		1.01
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3		1.01
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		1.01
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		1.01
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		1.01
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		1.01
06192	1,2-Dichloroethane	107-06-2	2.3	J	0.16	4.3		1.01
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		1.01
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		1.01
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		1.01
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		1.01
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		1.01
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		1.01
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		1.01
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		1.01
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		1.01
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		1.01
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		1.01
06192	Methylene Chloride	75-09-2	0.67	J	0.26	4.3		1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		1.01

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Sample Description: **SL-094-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-9.0-10.0

LLI Sample # SW 6245567
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:33

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0949 SDG#: DE116-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		1.01
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		1.01
06192	Toluene	108-88-3	0.09	U	0.09	4.3		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		1.01
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		1.01
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		1.01
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		1.01
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		1.01
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		26.26
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	87.8		17.5	34.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1

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Sample Description: SL-094-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-9.0-10.0

LLI Sample # SW 6245567
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:33

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0949 SDG#: DE116-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	11	J	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	20		6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1

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Sample Description: SL-094-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-9.0-10.0

LLI Sample # SW 6245567
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:33

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0949 SDG#: DE116-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	8.9	J	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.72
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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Sample Description: **SL-094-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-9.0-10.0

LLI Sample # SW 6245567
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:33

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0949 SDG#: DE116-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	1.1	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.54	J	0.43	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1

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Sample Description: SL-094-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-9.0-10.0

LLI Sample # SW 6245567
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:33

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0949 SDG#: DE116-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		5.20	20.7		1
07914	Boron	7440-42-8	2.96	J	0.920	5.17		1
01650	Calcium	7440-70-2	2,610		6.34	20.7		1
01654	Iron	7439-89-6	23,500		4.87	20.7		1
01656	Lithium	7439-93-2	26.5		0.23	2.1		1
01657	Magnesium	7439-95-4	5,350		2.63	10.3		1
06958	Manganese	7439-96-5	326		0.0806	0.517		1
10145	Phosphorus	7723-14-0	376		0.579	10.3		1
01662	Potassium	7440-09-7	3,270		18.6	51.7		1
01667	Sodium	7440-23-5	166		38.6	103		1
07968	Strontium	7440-24-6	15.8		0.0641	0.517		1
06969	Tin	7440-31-5	2.85	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,310		0.393	1.03		1
10146	Zirconium	7440-67-7	4.01	J	0.869	5.17		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0620	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.28		0.0827	0.414		2
06126	Barium	7440-39-3	102		0.112	0.414		2
06127	Beryllium	7440-41-7	0.583		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.201		0.0414	0.103		2
06131	Chromium	7440-47-3	19.1		0.124	0.414		2
06132	Cobalt	7440-48-4	6.51		0.0207	0.103		2
06133	Copper	7440-50-8	9.19		0.0682	0.414		2
06135	Lead	7439-92-1	5.06		0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.494		0.0517	0.103		2
06139	Nickel	7440-02-0	11.4		0.103	0.414		2
06141	Selenium	7782-49-2	0.163	J	0.0414	0.414		2
06142	Silver	7440-22-4	0.0388	J	0.0124	0.103		2
06145	Thallium	7440-28-0	0.268		0.0310	0.103		2
06148	Vanadium	7440-62-2	40.2		0.0232	0.105		2
06149	Zinc	7440-66-6	64.2		0.579	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.4		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-094-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-9.0-10.0

LLI Sample # SW 6245567
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:33

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0949 SDG#: DE116-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	490		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.50		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-094-SA5A-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011	21:57	Chelsea B Eastep	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110942AA	04/04/2011	15:51	Jason M Long	26.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109123993	04/01/2011	14:19	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109123993	04/01/2011	14:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109123993	04/01/2011	14:28	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109123993	04/01/2011	14:19	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/20/2011	11:24	Timothy J Trees	1

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S0949 SDG#: DE116-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11102SLH026	04/15/2011 03:48	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11101SLB026	04/12/2011 15:11	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11101SLB026	04/11/2011 18:45	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11102SLH026	04/13/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34B	04/05/2011 11:44	Marie D John	25.72
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109123993	04/01/2011 14:18	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111010012A	04/13/2011 13:10	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/07/2011 00:27	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 03:46	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111010012A	04/11/2011 16:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110920013A	04/06/2011 02:48	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110950026A	04/05/2011 20:12	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110940011A	04/04/2011 22:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 02:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110920013A	04/04/2011 17:10	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110940011A	04/04/2011 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110950026A	04/05/2011 17:35	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 04:41	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:48	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-094-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-9.0-10.0

LLI Sample # SW 6245567
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:33

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0949 SDG#: DE116-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201A	04/16/2011 09:35	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11105105201A	04/16/2011 09:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201B	04/12/2011 10:20	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11107243201A	04/19/2011 01:04	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201A	04/13/2011 20:53	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201A	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201B	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201A	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101B	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401B	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-4.0-5.0

LLI Sample # SW 6245568
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 10:50

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0894 SDG#: DE116-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7	U	7.7	9.2		1.05
06192	Benzene	71-43-2	0.11	U	0.11	4.6		1.05
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.05
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.05
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.05
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.05
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.05
06192	2-Butanone	78-93-3	1.4	U	1.4	9.2		1.05
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.05
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.05
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		1.05
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.05
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.05
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.05
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.6		1.05
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.05
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.05
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.05
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.05
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.05
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.6		1.05
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.05
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.6		1.05
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.6		1.05
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.05
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.05
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		1.05
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.05
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.6		1.05
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.05
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.05
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.05
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.05
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.6		1.05
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.05
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.6		1.05
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.05
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		1.05
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.6		1.05
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1.05
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.05
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.05
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.05
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.2		1.05
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.05
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.05
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.05
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.2		1.05
06192	Methylene Chloride	75-09-2	1.1	J	0.27	4.6		1.05
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.05

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Sample Description: SL-089-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-4.0-5.0

LLI Sample # SW 6245568
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 10:50

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0894 SDG#: DE116-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.6		1.05
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.05
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		1.05
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.05
06192	Toluene	108-88-3	0.09	U	0.09	4.6		1.05
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.05
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.05
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.05
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.05
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.05
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		1.05
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.05
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.05
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.6		1.05
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.05
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.6		1.05
06192	o-Xylene	95-47-6	0.19	U	0.19	4.6		1.05
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.5	U	6.5	20		30.19
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-4.0-5.0

LLI Sample # SW 6245568
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 10:50

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0894 SDG#: DE116-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	12	J	6.5	20		1
10138	Chrysene	218-01-9	0.84	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-4.0-5.0

LLI Sample # SW 6245568
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 10:50

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0894 SDG#: DE116-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	9.4	J	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	8.9		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,000		5.35	21.3		1
07914	Boron	7440-42-8	1.62	J	0.946	5.32		1
01650	Calcium	7440-70-2	2,350		6.52	21.3		1
01654	Iron	7439-89-6	23,100		5.01	21.3		1
01656	Lithium	7439-93-2	31.5		0.23	2.1		1
01657	Magnesium	7439-95-4	7,000		2.70	10.6		1
06958	Manganese	7439-96-5	310		0.0829	0.532		1
10145	Phosphorus	7723-14-0	442		0.595	10.6		1
01662	Potassium	7440-09-7	3,600		19.1	53.2		1
01667	Sodium	7440-23-5	137		39.7	106		1
07968	Strontium	7440-24-6	8.82		0.0659	0.532		1
06969	Tin	7440-31-5	3.21	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,400		0.404	1.06		1
10146	Zirconium	7440-67-7	2.68	J	0.893	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0980	J	0.0632	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.07		0.0842	0.421		2
06126	Barium	7440-39-3	103		0.114	0.421		2
06127	Beryllium	7440-41-7	0.470		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.129		0.0421	0.105		2
06131	Chromium	7440-47-3	18.4		0.126	0.421		2

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Sample Description: SL-089-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-4.0-5.0

LLI Sample # SW 6245568
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 10:50

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0894 SDG#: DE116-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	6.49		0.0211	0.105		2
06133	Copper	7440-50-8	8.03		0.0695	0.421		2
06135	Lead	7439-92-1	3.35		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.382		0.0527	0.105		2
06139	Nickel	7440-02-0	11.5		0.105	0.421		2
06141	Selenium	7782-49-2	0.0758	J	0.0421	0.421		2
06142	Silver	7440-22-4	0.0176	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.263		0.0316	0.105		2
06148	Vanadium	7440-62-2	42.1		0.0232	0.105		2
06149	Zinc	7440-66-6	75.5		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	491		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.49		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-089-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-089-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-4.0-5.0

LLI Sample # SW 6245568
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 10:50

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0894 SDG#: DE116-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011 22:20	Chelsea B Eastep	1.05
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110942AA	04/04/2011 16:11	Jason M Long	30.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109123993	04/01/2011 14:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109123993	04/01/2011 14:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109123993	04/01/2011 14:28	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109123993	04/01/2011 14:22	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11102SLH026	04/15/2011 04:13	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11101SLB026	04/12/2011 15:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11101SLB026	04/11/2011 18:45	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11102SLH026	04/13/2011 03:30	Sherry L Morrow	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111010031A	04/12/2011 16:49	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 04:05	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111010031A	04/12/2011 09:15	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 04:44	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:51	Choon Y Tian	2

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Sample Description: **SL-089-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-4.0-5.0

LLI Sample # SW 6245568
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 10:50

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0894 SDG#: DE116-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201A	04/16/2011 10:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201B	04/12/2011 10:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11107243201A	04/19/2011 01:19	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201A	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201B	04/07/2011 13:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182101B	04/04/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039401B	04/04/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-9.0-10.0

LLI Sample # SW 6245569
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 11:05

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0899 SDG#: DE116-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	220	U	220	650		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,300		1
04688	Benzoic acid	65-85-0	220	U	220	650		1
04688	Benzyl alcohol	100-51-6	220	U	220	650		1
04688	4-Bromophenyl-phenylether	101-55-3	22	U	22	220		1
04688	Carbazole	86-74-8	22	U	22	220		1
04688	4-Chloro-3-methylphenol	59-50-7	43	U	43	220		1
04688	4-Chloroaniline	106-47-8	87	U	87	220		1
04688	bis(2-Chloroethoxy)methane	111-91-1	22	U	22	220		1
04688	bis(2-Chloroethyl)ether	111-44-4	22	U	22	220		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	22	U	22	220		1
04688	2-Chloronaphthalene	91-58-7	22	U	22	220		1
04688	2-Chlorophenol	95-57-8	22	U	22	220		1
04688	4-Chlorophenyl-phenylether	7005-72-3	43	U	43	220		1
04688	Dibenzofuran	132-64-9	22	U	22	220		1
04688	1,2-Dichlorobenzene	95-50-1	22	U	22	220		1
04688	1,3-Dichlorobenzene	541-73-1	22	U	22	220		1
04688	1,4-Dichlorobenzene	106-46-7	22	U	22	220		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	430		1
04688	2,4-Dichlorophenol	120-83-2	22	U	22	220		1
04688	2,4-Dimethylphenol	105-67-9	43	U	43	220		1
04688	3,5-Dimethylphenol	108-68-9	43	U	43	220		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	220	U	220	650		1
04688	2,4-Dinitrophenol	51-28-5	430	U	430	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	43	U	43	220		1
04688	2,6-Dinitrotoluene	606-20-2	22	U	22	220		1
04688	1,2-Diphenylhydrazine	122-66-7	22	U	22	220		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	22	430		1
04688	Hexachlorobenzene	118-74-1	22	U	22	220		1
04688	Hexachlorobutadiene	87-68-3	87	U	87	220		1
04688	Hexachlorocyclopentadiene	77-47-4	220	U	220	650		1
04688	Hexachloroethane	67-72-1	22	U	22	220		1
04688	Isophorone	78-59-1	22	U	22	220		1
04688	2-Methylphenol	95-48-7	43	U	43	220		1
04688	4-Methylphenol	106-44-5	43	U	43	220		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	22	U	22	220		1
04688	3-Nitroaniline	99-09-2	43	U	43	220		1
04688	4-Nitroaniline	100-01-6	87	U	87	220		1
04688	Nitrobenzene	98-95-3	22	U	22	220		1
04688	2-Nitrophenol	88-75-5	22	U	22	220		1
04688	4-Nitrophenol	100-02-7	220	U	220	650		1
04688	N-Nitroso-di-n-propylamine	621-64-7	22	U	22	220		1
04688	N-Nitrosodiphenylamine	86-30-6	22	U	22	220		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	220	U	220	650		1

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Sample Description: SL-089-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-9.0-10.0

LLI Sample # SW 6245569
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 11:05

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0899 SDG#: DE116-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	22	U	22	220		1
04688	1,2,4-Trichlorobenzene	120-82-1	22	U	22	220		1
04688	2,4,5-Trichlorophenol	95-95-4	43	U	43	220		1
04688	2,4,6-Trichlorophenol	88-06-2	43	U	43	220		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.87	U	0.87	2.2		1
10138	Acenaphthylene	208-96-8	0.43	U	0.43	2.2		1
10138	Anthracene	120-12-7	0.43	U	0.43	2.2		1
10138	Benzo(a)anthracene	56-55-3	0.87	U	0.87	2.2		1
10138	Benzo(a)pyrene	50-32-8	0.87	U	0.87	2.2		1
10138	Benzo(b)fluoranthene	205-99-2	0.87	U	0.87	2.2		1
10138	Benzo(g,h,i)perylene	191-24-2	0.87	U	0.87	2.2		1
10138	Benzo(k)fluoranthene	207-08-9	0.87	U	0.87	2.2		1
10138	Butylbenzylphthalate	85-68-7	7.8	U	7.8	23		1
10138	Di-n-butylphthalate	84-74-2	13	J	7.8	23		1
10138	Chrysene	218-01-9	0.43	U	0.43	2.2		1
10138	Dibenz(a,h)anthracene	53-70-3	0.87	U	0.87	2.2		1
10138	Diethylphthalate	84-66-2	7.8	U	7.8	23		1
10138	Dimethylphthalate	131-11-3	7.8	U	7.8	23		1
10138	Fluoranthene	206-44-0	0.87	U	0.87	2.2		1
10138	Fluorene	86-73-7	0.87	U	0.87	2.2		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.87	U	0.87	2.2		1
10138	1-Methylnaphthalene	90-12-0	0.87	U	0.87	2.2		1
10138	2-Methylnaphthalene	91-57-6	0.87	U	0.87	2.2		1
10138	Naphthalene	91-20-3	0.87	U	0.87	2.2		1
10138	N-Nitrosodimethylamine	62-75-9	0.87	U	0.87	2.2		1
10138	Di-n-octylphthalate	117-84-0	7.8	U	7.8	23		1
10138	Phenanthrene	85-01-8	0.87	U	0.87	2.2		1
10138	Pyrene	129-00-0	0.87	U	0.87	2.2		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.7	U	2.7	6.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.3		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.3		1
10225	Aroclor 5460	11126-42-4	1.3	U	1.3	4.3		1
10225	PCB-1016	12674-11-2	0.43	U	0.43	2.2		1
10225	PCB-1221	11104-28-2	0.43	U	0.43	2.2		1
10225	PCB-1232	11141-16-5	0.43	U	0.43	2.2		1
10225	PCB-1242	53469-21-9	0.43	U	0.43	2.2		1
10225	PCB-1248	12672-29-6	0.43	U	0.43	2.2		1
10225	PCB-1254	11097-69-1	0.43	U	0.43	2.2		1
10225	PCB-1260	11096-82-5	0.51	U	0.51	2.2		1
10225	PCB-1262	37324-23-5	0.43	U	0.43	2.2		1
10225	PCB-1268	11100-14-4	0.43	U	0.43	2.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-9.0-10.0

LLI Sample # SW 6245569
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 11:05

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0899 SDG#: DE116-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		6.55	26.0		1
07914	Boron	7440-42-8	6.60		1.16	6.51		1
01650	Calcium	7440-70-2	2,930		7.98	26.0		1
01654	Iron	7439-89-6	20,300		6.13	26.0		1
01656	Lithium	7439-93-2	24.5		0.29	2.6		1
01657	Magnesium	7439-95-4	4,690		3.31	13.0		1
06958	Manganese	7439-96-5	333		0.102	0.651		1
10145	Phosphorus	7723-14-0	525		0.729	13.0		1
01662	Potassium	7440-09-7	3,900		23.4	65.1		1
01667	Sodium	7440-23-5	116	J	48.6	130		1
07968	Strontium	7440-24-6	19.3		0.0807	0.651		1
06969	Tin	7440-31-5	3.53	J	1.30	13.0		1
06970	Titanium	7440-32-6	1,330		0.495	1.30		1
10146	Zirconium	7440-67-7	4.04	J	1.09	6.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.174	J	0.0774	0.258		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.67		0.103	0.516		2
06126	Barium	7440-39-3	134		0.139	0.516		2
06127	Beryllium	7440-41-7	0.693		0.0206	0.129		2
06128	Cadmium	7440-43-9	0.326		0.0516	0.129		2
06131	Chromium	7440-47-3	22.1		0.155	0.516		2
06132	Cobalt	7440-48-4	7.27		0.0258	0.129		2
06133	Copper	7440-50-8	12.9		0.0851	0.516		2
06135	Lead	7439-92-1	6.60		0.0134	0.258		2
06138	Molybdenum	7439-98-7	0.828		0.0645	0.129		2
06139	Nickel	7440-02-0	14.4		0.129	0.516		2
06141	Selenium	7782-49-2	0.188	J	0.0516	0.516		2
06142	Silver	7440-22-4	0.0646	J	0.0155	0.129		2
06145	Thallium	7440-28-0	0.332		0.0387	0.129		2
06148	Vanadium	7440-62-2	39.9		0.0278	0.126		2
06149	Zinc	7440-66-6	78.8		0.722	3.87		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0043	J	0.0037	0.128		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	1.0	1.3		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.7	U	11.7	39.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.26	1.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-9.0-10.0

LLI Sample # SW 6245569
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 11:05

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0899 SDG#: DE116-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	468	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.94	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	23.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11102SLH026	04/15/2011 04:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11101SLB026	04/12/2011 16:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11101SLB026	04/11/2011 18:45	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11102SLH026	04/13/2011 03:30	Sherry L Morrow	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111010031A	04/12/2011 17:07	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 04:24	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111010031A	04/12/2011 09:15	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-089-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-9.0-10.0

LLI Sample # SW 6245569
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 11:05

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0899 SDG#: DE116-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 04:55	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 11:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 11:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 11:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 11:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 11:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 11:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 11:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 11:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 11:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 11:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 11:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 11:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 11:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 11:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 11:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201A	04/16/2011 10:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201B	04/12/2011 11:05	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11107243201A	04/19/2011 02:53	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201A	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201B	04/07/2011 13:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182102A	04/04/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039402A	04/04/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-075-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5A-SB-2.5-3.5

LLI Sample # SW 6245570
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 14:55

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0752 SDG#: DE116-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.86
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.86
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.86
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.86
06192	Methylene Chloride	75-09-2	0.65	J	0.24	3.9		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.86

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5A-SB-2.5-3.5

LLI Sample # SW 6245570
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 14:55

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0752 SDG#: DE116-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.37
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	30.6	J	18.7	37.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-075-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5A-SB-2.5-3.5

LLI Sample # SW 6245570
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 14:55

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0752 SDG#: DE116-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	12	J	6.8	21		1
10138	Chrysene	218-01-9	1.2	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: **SL-075-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5A-SB-2.5-3.5

LLI Sample # SW 6245570
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 14:55

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0752 SDG#: DE116-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.15
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: **SL-075-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5A-SB-2.5-3.5

LLI Sample # SW 6245570
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 14:55

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0752 SDG#: DE116-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.3	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.59	J	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The sample was initially prepared and analyzed within the project specific hold time of 7 days. However, the ending continuing calibration standard was outside the acceptance limits. The sample was reanalyzed outside 7 days but within 14 days of collection. Since the ending continuing calibration standard was within the acceptance limits, the second trial is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1

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Sample Description: **SL-075-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5A-SB-2.5-3.5

LLI Sample # SW 6245570
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 14:55

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0752 SDG#: DE116-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,800		5.67	22.6		1
07914	Boron	7440-42-8	1.00	U	1.00	5.64		1
01650	Calcium	7440-70-2	3,090		6.91	22.6		1
01654	Iron	7439-89-6	31,300		26.6	113		5
01656	Lithium	7439-93-2	32.4		0.25	2.3		1
01657	Magnesium	7439-95-4	6,530		2.86	11.3		1
06958	Manganese	7439-96-5	430		0.0880	0.564		1
10145	Phosphorus	7723-14-0	420		0.631	11.3		1
01662	Potassium	7440-09-7	4,590		20.3	56.4		1
01667	Sodium	7440-23-5	138		42.1	113		1
07968	Strontium	7440-24-6	26.3		0.0699	0.564		1
06969	Tin	7440-31-5	3.66	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,540		0.429	1.13		1
10146	Zirconium	7440-67-7	5.30	J	0.947	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.257		0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.31		0.0902	0.451		2
06126	Barium	7440-39-3	175		0.122	0.451		2
06127	Beryllium	7440-41-7	1.17		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.205		0.0451	0.113		2
06131	Chromium	7440-47-3	32.5		0.135	0.451		2
06132	Cobalt	7440-48-4	11.5		0.0226	0.113		2
06133	Copper	7440-50-8	19.7		0.0744	0.451		2
06135	Lead	7439-92-1	11.0		0.0117	0.226		2
06138	Molybdenum	7439-98-7	1.05		0.0564	0.113		2
06139	Nickel	7440-02-0	24.2		0.113	0.451		2
06141	Selenium	7782-49-2	0.214	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0689	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.404		0.0338	0.113		2
06148	Vanadium	7440-62-2	47.5		0.0248	0.113		2
06149	Zinc	7440-66-6	88.2		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1

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Sample Description: **SL-075-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5A-SB-2.5-3.5

LLI Sample # SW 6245570
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 14:55

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0752 SDG#: DE116-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	451		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.99		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-075-SA5A-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110912AA	04/01/2011	22:42	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110942AA	04/04/2011	16:32	Jason M Long	21.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109123993	04/01/2011	14:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109123993	04/01/2011	14:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109123993	04/01/2011	14:28	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109123993	04/01/2011	14:25	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/20/2011	11:40	Timothy J Trees	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-075-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5A-SB-2.5-3.5

LLI Sample # SW 6245570
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 14:55

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0752 SDG#: DE116-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11102SLH026	04/15/2011 05:03	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11101SLB026	04/12/2011 18:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11101SLB026	04/11/2011 18:45	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11102SLH026	04/13/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34B	04/05/2011 12:20	Marie D John	23.15
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109123993	04/01/2011 14:25	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111010012A	04/13/2011 13:52	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/07/2011 15:55	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 04:42	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111010012A	04/11/2011 16:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110920013A	04/06/2011 03:13	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110950026A	04/05/2011 20:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111020001A	04/12/2011 16:20	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 03:29	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110920013A	04/04/2011 17:10	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	111020001A	04/12/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110950026A	04/05/2011 17:35	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 04:58	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 04:58	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 04:58	Tara L Snyder	1
01654	Iron	SW-846 6010B	2	110945708002	04/13/2011 09:31	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 04:58	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 04:58	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 04:58	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 04:58	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 04:58	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 04:58	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 04:58	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 04:58	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 04:58	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 04:58	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 12:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 12:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 12:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 12:04	Choon Y Tian	2

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Sample Description: **SL-075-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5A-SB-2.5-3.5

LLI Sample # SW 6245570
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 14:55

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0752 SDG#: DE116-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 12:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 12:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 12:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 12:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 12:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 12:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 12:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 12:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 12:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 12:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 12:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201A	04/16/2011 10:43	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11105105201A	04/16/2011 10:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11097097201B	04/12/2011 11:27	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11107243201A	04/19/2011 03:07	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201B	04/13/2011 20:54	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201A	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11097097201B	04/07/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201B	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182102A	04/04/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039402A	04/04/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-033111 Water
SSFL Area IV Collocated Soil Sampling
TB-033111

LLI Sample # WW 6245571
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 08:00

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB331 SDG#: DE116-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-033111 Water
SSFL Area IV Collocated Soil Sampling
TB-033111

LLI Sample # WW 6245571
LLI Group # 1240016
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 08:00

Submitted: 04/01/2011 09:10
Reported: 04/21/2011 12:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB331 SDG#: DE116-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110952AA	04/05/2011	19:15	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110941AA	04/04/2011	10:01	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110941AA	04/04/2011	10:01	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110952AA	04/05/2011	19:15	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11095B20A	04/05/2011	23:58	Elizabeth J Marin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11095B20A	04/05/2011	23:58	Elizabeth J Marin	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240016
Reported: 04/21/11 at 12:09 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110912AA	Sample number(s): 6245566-6245568,6245570									
Acetone	6.7	U	6.7	8.0	ug/kg	174		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	101		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	102		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	117		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	83		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	89		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	136		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	113		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	115		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	104		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	87		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	88		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	92		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	98		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	94		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	106		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	106		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	93		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	87		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	101		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	102		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	102		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	81		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	98		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	108		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	100		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	99		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	86		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	89		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	113		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	109		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	103		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	130		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	102		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	111		75-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240016
Reported: 04/21/11 at 12:09 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	93		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	100		61-134		
Methylene Chloride	0.40	J	0.24	4.0	ug/kg	105		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	117		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	95		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	91		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	107		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	99		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	99		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	93		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	101		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	110		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	109		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	97		80-120		
Batch number: E110941AA	Sample number(s): 6245571									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	113	113	80-123	1	30
Batch number: E110942AA	Sample number(s): 6245566-6245568,6245570									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	106	70-130	7	30
Batch number: Y110952AA	Sample number(s): 6245571									
Acetone	6	U	6.	20	ug/l	101	96	49-234	6	30
Benzene	0.5	U	0.5	5	ug/l	105	98	79-120	7	30
Bromobenzene	1	U	1.	5	ug/l	104	99	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	112	107	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	111	103	80-120	7	30
Bromoform	1	U	1.	5	ug/l	92	87	61-120	6	30
Bromomethane	1	U	1.	5	ug/l	117	109	44-120	7	30
2-Butanone	3	U	3.	10	ug/l	101	96	66-151	6	30
n-Butylbenzene	1	U	1.	5	ug/l	95	89	74-120	7	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	94	78-120	6	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	89	80-120	7	30
Carbon Tetrachloride	1	U	1.	5	ug/l	120	110	75-123	8	30
Chlorobenzene	0.8	U	0.8	5	ug/l	104	98	80-120	6	30
Chloroethane	1	U	1.	5	ug/l	109	101	49-129	8	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	90	86	56-129	4	30
Chloroform	0.8	U	0.8	5	ug/l	116	107	77-122	8	30
Chloromethane	1	U	1.	5	ug/l	80	77	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	101	94	80-120	6	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	96	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	77	66	38-136	15	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	94	90	56-126	5	30
Dibromochloromethane	1	U	1.	5	ug/l	103	96	80-120	7	30
1,2-Dibromoethane	1	U	1.	5	ug/l	106	99	80-120	7	30
Dibromomethane	1	U	1.	5	ug/l	109	104	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	101	96	80-120	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	102	98	80-120	4	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	102	97	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	97	87	47-120	10	30
1,1-Dichloroethane	1	U	1.	5	ug/l	107	99	79-120	7	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240016
Reported: 04/21/11 at 12:09 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	127	119	70-130	6	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	109	100	74-123	9	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	99	80-120	4	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	96	80-120	6	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	94	78-120	5	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	97	80-120	6	30
2,2-Dichloropropane	1	U	1.	5	ug/l	106	99	77-124	7	30
1,1-Dichloropropene	1	U	1.	5	ug/l	108	100	80-120	8	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	100	94	80-120	5	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	96	90	79-120	6	30
Ethylbenzene	0.8	U	0.8	5	ug/l	103	96	79-120	7	30
Freon 113	2	U	2.	10	ug/l	120	109	69-128	10	30
Freon 133a	2	U	2.	5	ug/l	116	103	77-120	12	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	93	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	96	91	65-136	6	30
Isopropylbenzene	1	U	1.	5	ug/l	104	97	77-120	7	30
p-Isopropyltoluene	1	U	1.	5	ug/l	99	94	80-120	6	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	100	76-120	5	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	102	96	70-121	6	30
Methylene Chloride	2	U	2.	5	ug/l	113	100	80-120	13	30
n-Propylbenzene	1	U	1.	5	ug/l	101	95	80-120	6	30
Styrene	1	U	1.	5	ug/l	98	92	80-120	7	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	106	99	80-120	7	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	91	71-120	3	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	110	103	80-121	7	30
Toluene	0.7	U	0.7	5	ug/l	101	95	79-120	7	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	97	94	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	87	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	117	108	75-127	8	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	103	98	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	109	101	80-120	8	30
Trichlorofluoromethane	2	U	2.	5	ug/l	135*	125	64-129	8	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	106	100	80-120	6	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	101	95	74-120	6	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	102	96	75-120	7	30
Vinyl Chloride	1	U	1.	5	ug/l	93	86	65-125	7	30
m+p-Xylene	0.8	U	0.8	5	ug/l	102	96	80-120	6	30
o-Xylene	0.8	U	0.8	5	ug/l	99	93	80-120	6	30
Batch number: 11098SLB026	Sample number(s): 6245566-6245567,6245570									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	79		70-130		
Batch number: 11101SLB026	Sample number(s): 6245566-6245570									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	98		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	77		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	87		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	78		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	80		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	109		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	112		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	77		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	100		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	106		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	118		67-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240016
Reported: 04/21/11 at 12:09 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	106		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	77		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	93		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	92		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	96		56-121		
Batch number: 11102SLH026	Sample number(s): 6245566-6245570									
Aniline	170	U	170.	500	ug/kg	66		34-94		
Benzidine	1,200	U	1,200.	3,300	ug/kg	50		15-121		
Benzo(a)pyrene	17	U	17.	170	ug/kg	106		69-122		
Benzoic acid	170	U	170.	500	ug/kg	91		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		79-117		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	39		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	79		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	93		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	35		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	96		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	92		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	91		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	83		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	93		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	92		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	96		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		68-105		
Isophorone	17	U	17.	170	ug/kg	95		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	88		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240016
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitroaniline	67	U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	97		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	84		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	86		51-117		
Phenol	17	U	17.	170	ug/kg	85		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	93		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11087A34B	Sample number(s): 6245566-6245567,6245570									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11095B20A	Sample number(s): 6245571									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	118	75-135	0	30
Batch number: 111010012A	Sample number(s): 6245566-6245567,6245570									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	110		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	97	54-134	1	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	96	54-134	1	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
HMX	100	U	100.	300	ug/kg	100		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	109		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800	U	800.	2,400	ug/kg	115		80-120		
RDX	50	U	50.	120	ug/kg	97		75-131		
Tetryl	61	U	61.	120	ug/kg	87		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
Batch number: 110940004A	Sample number(s): 6245566-6245567,6245570									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	92		80-126		
Batch number: 111010031A	Sample number(s): 6245568-6245569									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		85-115		
Batch number: 111030013A	Sample number(s): 6245566-6245570									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	75	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					

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Client Name: CDM Federal Programs Corp. Group Number: 1240016
Reported: 04/21/11 at 12:09 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	103		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110920013A	Sample number(s): 6245566-6245567,6245570									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	84		66-113		
EFH (C30 - C40)	0.57	J	0.40	1.2	mg/kg	81		66-113		
EFH (C8-C11)	0.48	J	0.40	1.2	mg/kg	83		66-113		
Batch number: 110940011A	Sample number(s): 6245566-6245567									
Diethylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	113		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	113		75-125		
Batch number: 110950026A	Sample number(s): 6245566-6245567,6245570									
Ethanol	100	U	100.	500	ug/kg	88		71-129		
Isopropanol	100	U	100.	500	ug/kg	92		75-125		
Methanol	100	U	100.	500	ug/kg	90		68-129		
Batch number: 111020001A	Sample number(s): 6245570									
Diethylene glycol	5.0	U	5.0	13	mg/kg	160*		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	159*		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	187*		75-125		
Batch number: 111020016A	Sample number(s): 6245566-6245567,6245570									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	80		75-125		
Batch number: 110941026001A	Sample number(s): 6245566-6245570									
Antimony	0.0600	U	0.0600	0.200	mg/kg	141		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	100		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	108		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	115		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	103		82-118		
Copper	0.124	J	0.0660	0.400	mg/kg	98		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	102		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	98		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	105		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	100		83-110		
Zinc	0.560	U	0.560	3.00	mg/kg	99		81-112		
Batch number: 110941026001B	Sample number(s): 6245566-6245570									
Selenium	0.0400	U	0.0400	0.400	mg/kg	101		83-111		
Batch number: 110941026001C	Sample number(s): 6245566-6245570									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	117		78-122		
Batch number: 110941026001D	Sample number(s): 6245566-6245570									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240016
Reported: 04/21/11 at 12:09 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Barium	0.108	U	0.108	0.400	mg/kg	106		81-980		
Batch number: 110945708002	Sample number(s): 6245566-6245570									
Aluminum	5.03	U	5.03	20.0	mg/kg	98		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	88		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	100		88-110		
Iron	4.95	J	4.71	20.0	mg/kg	100		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	101		89-112		
Phosphorus	1.16	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		86-110		
Tin	1.99	J	1.00	10.0	mg/kg	98		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	110		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	104		80-120		
Batch number: 110945711002	Sample number(s): 6245566-6245570									
Mercury	0.0028	U	0.0028	0.0981	mg/kg	96		88-123		
Batch number: 110971026001A	Sample number(s): 6245566-6245570									
Vanadium	0.0220	U	0.0220	0.100	mg/kg	113		87-117		
Batch number: 11097097201B	Sample number(s): 6245566-6245570									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11102102201A	Sample number(s): 6245566-6245567									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11102102201B	Sample number(s): 6245570									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11105105201A	Sample number(s): 6245566-6245570									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	100		90-110		
Batch number: 11107243201A	Sample number(s): 6245566-6245570									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	98		80-120		
Batch number: 11094039401B	Sample number(s): 6245566-6245568									
18a pH by 9045C						100		95-105		
Batch number: 11094039402A	Sample number(s): 6245569-6245570									
18a pH by 9045C						100		95-105		
Batch number: 11094182101B	Sample number(s): 6245566-6245568									
32a OR Potential						101		98-102		
Batch number: 11094182102A	Sample number(s): 6245569-6245570									
32a OR Potential						99		98-102		
Batch number: 11096162401A	Sample number(s): 6245568-6245569									
Moisture Content by 160.3						100		80-120		
Batch number: 11109162401A	Sample number(s): 6245566-6245567,6245570									
Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240016
Reported: 04/21/11 at 12:09 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110912AA	Sample number(s): 6245566-6245568,6245570 UNSPK: P244296								
Acetone	208	197	15-210	11	30				
Benzene	103	107	55-143	1	30				
Bromobenzene	104	104	43-139	6	30				
Bromochloromethane	108	118	60-137	4	30				
Bromodichloromethane	87	94	53-136	2	30				
Bromoform	71	80	38-124	7	30				
Bromomethane	90	83	42-168	13	30				
2-Butanone	129	140	37-163	3	30				
n-Butylbenzene	103	112	30-146	3	30				
sec-Butylbenzene	142	121	33-157	21	30				
tert-Butylbenzene	152	109	41-152	38*	30				
Carbon Tetrachloride	94	96	45-153	3	30				
Chlorobenzene	81	101	49-135	17	30				
Chloroethane	90	87	39-152	9	30				
2-Chloroethyl Vinyl Ether	66	85	32-139	20	30				
Chloroform	103	103	61-142	5	30				
Chloromethane	117	99	51-163	22	30				
2-Chlorotoluene	122	106	42-146	19	30				
4-Chlorotoluene	100	101	39-145	3	30				
Chlorotrifluoroethene	143*	114	70-130	45*	30				
1,2-Dibromo-3-chloropropane	99	82	30-139	24	30				
Dibromochloromethane	86	87	51-128	4	30				
1,2-Dibromoethane	88	96	54-129	3	30				
Dibromomethane	83	96	57-130	9	30				
1,2-Dichlorobenzene	78	94	36-133	14	30				
1,3-Dichlorobenzene	81	97	34-134	13	30				
1,4-Dichlorobenzene	76	94	35-136	17	30				
Dichlorodifluoromethane	101	85	26-151	22	30				
1,1-Dichloroethane	109	104	63-142	9	30				
1,2-Dichloroethane	93	98	68-131	1	30				
1,1-Dichloroethene	122	119	61-149	7	30				
cis-1,2-Dichloroethene	98	104	60-136	1	30				
trans-1,2-Dichloroethene	98	106	59-142	2	30				
1,2-Dichloropropane	103	105	62-135	3	30				
1,3-Dichloropropane	102	100	58-129	7	30				
2,2-Dichloropropane	95	93	53-147	7	30				
1,1-Dichloropropene	97	106	54-145	4	30				
cis-1,3-Dichloropropene	72	90	51-131	17	30				
trans-1,3-Dichloropropene	71	86	49-129	14	30				
Ethylbenzene	93	106	44-141	8	30				
Freon 113	136	125	56-156	14	30				
Freon 133a	141*	126	61-131	35*	30				
Hexachlorobutadiene	100	99	10-155	5	30				
2-Hexanone	131	120	32-160	14	30				
Isopropylbenzene	90	105	38-144	11	30				
p-Isopropyltoluene	127	114	29-152	16	30				
Methyl Tertiary Butyl Ether	99	92	55-129	12	30				
4-Methyl-2-pentanone	87	94	46-139	3	30				

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Quality Control Summary

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Reported: 04/21/11 at 12:09 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Methylene Chloride	114	101	61-141	15	30				
n-Propylbenzene	140	121	39-157	20	30				
Styrene	62	96	35-134	38*	30				
1,1,1,2-Tetrachloroethane	100	93	52-130	13	30				
1,1,2,2-Tetrachloroethane	160*	103	40-152	48*	30				
Tetrachloroethene	98	105	42-149	2	30				
Toluene	107	107	50-146	5	30				
1,2,3-Trichlorobenzene	38	71	10-140	57*	30				
1,2,4-Trichlorobenzene	38	72	10-136	58*	30				
1,1,1-Trichloroethane	101	101	64-142	4	30				
1,1,2-Trichloroethane	109	100	54-139	14	30				
Trichloroethene	90	103	53-144	9	30				
Trichlorofluoromethane	124	107	47-163	20	30				
1,2,3-Trichloropropane	152	100	45-154	46*	30				
1,2,4-Trimethylbenzene	128	108	37-149	22	30				
1,3,5-Trimethylbenzene	139	108	38-150	30	30				
Vinyl Chloride	111	100	50-154	16	30				
m+p-Xylene	86	102	44-137	12	30				
o-Xylene	86	98	42-137	8	30				
Batch number: 11098SLB026	Sample number(s): 6245566-6245567,6245570 UNSPK: P244296								
N-Nitrosodimethylamine	71	75	70-130	6	30				
Batch number: 11101SLB026	Sample number(s): 6245566-6245570 UNSPK: 6245566								
Acenaphthene	93	96	63-105	3	30				
Acenaphthylene	103	107	67-114	4	30				
Anthracene	102	108	60-122	6	30				
Benzo(a)anthracene	106	112	59-128	5	30				
Benzo(a)pyrene	76	80	45-138	5	30				
Benzo(b)fluoranthene	93	100	43-155	8	30				
Benzo(g,h,i)perylene	40	37	33-141	7	30				
Benzo(k)fluoranthene	80	88	42-144	9	30				
Butylbenzylphthalate	123	130	57-173	5	30				
Di-n-butylphthalate	83	90	65-148	6	30				
Chrysene	99	105	48-134	6	30				
Dibenz(a,h)anthracene	50	47	22-133	5	30				
Diethylphthalate	80	85	70-136	5	30				
Dimethylphthalate	104	108	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	108	115	39-167	5	30				
Fluoranthene	111	118	26-166	6	30				
Fluorene	100	103	66-122	3	30				
Indeno(1,2,3-cd)pyrene	48	46	21-143	5	30				
1-Methylnaphthalene	93	98	72-123	5	30				
2-Methylnaphthalene	85	88	64-103	4	30				
Naphthalene	90	94	61-102	4	30				
N-Nitrosodimethylamine	93	93	48-113	0	30				
Di-n-octylphthalate	117	132	40-192	12	30				
Phenanthrene	90	96	12-165	6	30				
Pyrene	97	105	15-153	8	30				
Batch number: 11102SLH026	Sample number(s): 6245566-6245570 UNSPK: 6245566								
Aniline	69	55	35-95	23	30				
Benzidine	27*	21*	35-141	27	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)pyrene	102	98	57-126	4	30				
Benzoic acid	52	49	10-173	5	30				
Benzyl alcohol	92	85	67-115	8	30				
4-Bromophenyl-phenylether	104	98	67-129	6	30				
Carbazole	94	90	64-120	4	30				
4-Chloro-3-methylphenol	92	83	76-110	10	30				
4-Chloroaniline	38	33	23-95	14	30				
bis(2-Chloroethoxy)methane	100	94	75-104	6	30				
bis(2-Chloroethyl)ether	96	90	60-116	6	30				
bis(2-Chloroisopropyl)ether	90	85	55-142	5	30				
2-Chloronaphthalene	90	85	50-141	6	30				
2-Chlorophenol	94	88	73-121	7	30				
4-Chlorophenyl-phenylether	94	86	80-109	8	30				
Dibenzofuran	95	89	71-112	7	30				
1,2-Dichlorobenzene	89	83	66-108	7	30				
1,3-Dichlorobenzene	89	86	63-109	4	30				
1,4-Dichlorobenzene	88	83	70-100	6	30				
3,3'-Dichlorobenzidine	78	69	16-119	12	30				
2,4-Dichlorophenol	96	89	78-117	8	30				
2,4-Dimethylphenol	98	92	78-110	7	30				
3,5-Dimethylphenol	93	86	70-130	7	30				
4,6-Dinitro-2-methylphenol	81	61	24-116	27	30				
2,4-Dinitrophenol	57	40	20-143	36*	30				
2,4-Dinitrotoluene	93	84	73-113	9	30				
2,6-Dinitrotoluene	94	87	69-123	7	30				
1,2-Diphenylhydrazine	118	114	71-129	4	30				
bis(2-Ethylhexyl)phthalate	101	92	63-122	10	30				
Hexachlorobenzene	100	93	77-114	8	30				
Hexachlorobutadiene	101	93	62-120	8	30				
Hexachlorocyclopentadiene	41	28	10-153	40*	30				
Hexachloroethane	85	76	57-109	12	30				
Isophorone	99	93	73-102	6	30				
2-Methylphenol	88	83	75-111	7	30				
4-Methylphenol	86	79	71-111	9	30				
2-Nitroaniline	100	94	67-125	6	30				
3-Nitroaniline	92	85	59-122	8	30				
4-Nitroaniline	77	68	52-112	12	30				
Nitrobenzene	104	98	72-106	6	30				
2-Nitrophenol	98	92	74-115	6	30				
4-Nitrophenol	86	76	54-113	13	30				
N-Nitroso-di-n-propylamine	93	89	60-116	4	30				
N-Nitrosodiphenylamine	108	105	86-145	3	30				
Pentachlorophenol	87	81	28-127	8	30				
Phenol	86	81	58-126	6	30				
1,2,4-Trichlorobenzene	98	93	72-115	5	30				
2,4,5-Trichlorophenol	98	89	78-109	10	30				
2,4,6-Trichlorophenol	108	99	77-115	9	30				
Batch number: 11087A34B	Sample number(s): 6245566-6245567,6245570 UNSPK: P239176								
9a TPH by EPA 8015B Gas C5-C12	69	70	39-118	1	30				
Batch number: 111010012A	Sample number(s): 6245566-6245567,6245570 UNSPK: 6245566								
4-Amino-2,6-Dinitrotoluene	109	109	80-127	0	50				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Amino-4,6-Dinitrotoluene	110	110	80-137	1	50				
1,3-Dinitrobenzene	108	108	38-166	0	50				
2,4-Dinitrotoluene	106	106	80-131	0	50				
2,6-Dinitrotoluene	106	108	80-127	1	50				
HMX	98	99	63-128	1	50				
Nitrobenzene	104	103	80-125	1	50				
Nitroglycerin	95	96	80-120	0	50				
2-Nitrotoluene	104	106	80-122	1	50				
3-Nitrotoluene	108	109	72-119	1	50				
4-Nitrotoluene	106	106	80-125	0	50				
PETN	115	116	80-121	0	50				
RDX	93	93	75-129	0	50				
Tetryl	84	87	55-174	3	50				
1,3,5-Trinitrobenzene	108	108	82-126	1	50				
2,4,6-Trinitrotoluene	109	110	82-130	1	50				
Batch number: 110940004A	Sample number(s): 6245566-6245567,6245570 UNSPK: P244296								
25a Formaldehyde 8315A	93	89	80-120	5	50				
Batch number: 111010031A	Sample number(s): 6245568-6245569 UNSPK: 6245568								
6a Perchlorate EPA 6850	108	107	80-120	1	20				
Batch number: 111030013A	Sample number(s): 6245566-6245570 UNSPK: 6245566								
PCB-1016	76	67	29-146	13	50				
PCB-1260	85	75	39-149	12	50				
Batch number: 110920013A	Sample number(s): 6245566-6245567,6245570 UNSPK: P244296								
EFH (C12-C14)	95	99	49-123	4	20				
EFH (C15-C20)	-568 (2)	-558 (2)	49-123	8	20				
EFH (C21-C30)	-7904 (2)	-8067 (2)	49-123	64*	20				
EFH (C30 - C40)	-25284 (2)	-25600 (2)	49-123	78*	20				
EFH (C8-C11)	127*	135*	49-123	5	20				
Batch number: 110940011A	Sample number(s): 6245566-6245567 UNSPK: 6245566								
Diethylene glycol	86	95	59-109	9	20				
Ethylene glycol	91	94	63-107	4	20				
Propylene glycol	96	98	63-107	2	20				
Batch number: 110950026A	Sample number(s): 6245566-6245567,6245570 UNSPK: P247206								
Ethanol	79	84	48-130	6	20				
Isopropanol	86	87	12-149	1	20				
Methanol	76	84	43-138	9	20				
Batch number: 111020001A	Sample number(s): 6245570 UNSPK: 6245570								
Diethylene glycol	82	88	59-109	7	20				
Ethylene glycol	80	83	63-107	3	20				
Propylene glycol	91	92	63-107	1	20				
Batch number: 111020016A	Sample number(s): 6245566-6245567,6245570 UNSPK: P244296								
m-Terphenyl	73*	77	75-125	6	20				

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Quality Control Summary

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Reported: 04/21/11 at 12:09 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
o-Terphenyl	87	89	75-125	2	20				
p-Terphenyl	76	77	75-125	2	20				
Batch number: 110941026001A	Sample number(s): 6245566-6245570 UNSPK: P244296 BKG: P244296								
Antimony	17*	47*	75-125	20	20	1.39	1.11	23*	20
Arsenic	150*	140*	75-125	3	20	4.43	4.88	10	20
Beryllium	110	113	75-125	1	20	0.515	0.566	10	20
Cadmium	98	116	75-125	9	20	0.680	0.751	10	20
Chromium	65*	170*	75-125	26*	20	27.4	27.9	2	20
Cobalt	118	115	75-125	4	20	5.86	6.54	11	20
Copper	-10 (2)	228 (2)	75-125	45*	20	40.9	45.2	10	20
Lead	-109 (2)	136 (2)	75-125	9	20	75.9	78.7	4	20
Nickel	113	120	75-125	1	20	19.6	18.3	7	20
Silver	120	116	75-125	5	20	1.55	1.09	35*	20
Thallium	119	117	75-125	3	20	0.237	0.238	0 (1)	20
Zinc	-4 (2)	243 (2)	75-125	16	20	138	148	7	20
Batch number: 110941026001B	Sample number(s): 6245566-6245570 UNSPK: P244296 BKG: P244296								
Selenium	108	117	75-125	6	20	0.170 J	0.142 J	18 (1)	20
Batch number: 110941026001C	Sample number(s): 6245566-6245570 UNSPK: P244296 BKG: P244296								
Molybdenum	129*	132*	75-125	0	20	1.24	1.40	12	20
Batch number: 110941026001D	Sample number(s): 6245566-6245570 UNSPK: P244296 BKG: P244296								
Barium	5 (2)	8 (2)	75-125	0	20	128	124	3	20
Batch number: 110945708002	Sample number(s): 6245566-6245570 UNSPK: P244296 BKG: P244296								
Aluminum	1171 (2)	941 (2)	75-125	3	20	13,500	13,200	2	20
Boron	96	95	84-115	0	20	5.24	5.66	8 (1)	20
Calcium	52 (2)	1050 (2)	75-125	62*	20	4,190	4,670	11	20
Iron	181 (2)	2560 (2)	75-125	10	20	21,600	21,900	1	20
Lithium	104	103	82-114	0	20	22.2	23.1	4	20
Magnesium	113 (2)	175 (2)	75-125	3	20	4,300	4,340	1	20
Manganese	28 (2)	-80 (2)	75-125	14	20	396	302	27*	20
Phosphorus	91	119	75-125	6	20	357	371	4	20
Potassium	118	112	75-125	1	20	3,180	3,250	2	20
Sodium	101	104	75-125	3	20	95.0 J	85.6 J	10 (1)	20
Strontium	101	107	75-115	6	20	18.7	21.1	12	20
Tin	95	96	80-110	2	20	3.62 J	141	190* (1)	20
Titanium	209 (2)	176 (2)	75-125	2	20	1,220	1,200	2	20
Zirconium	99	100	75-125	2	20	4.13 J	4.21 J	2 (1)	20
Batch number: 110945711002	Sample number(s): 6245566-6245570 UNSPK: P244296 BKG: P244296								
Mercury	95	94	65-135	3	20	0.0052 J	0.0028 U	200* (1)	20
Batch number: 110971026001A	Sample number(s): 6245566-6245570 UNSPK: P244296 BKG: P244296								
Vanadium	149*	166*	75-125	3	20	29.0	33.7	15	20
Batch number: 11097097201B	Sample number(s): 6245566-6245570 UNSPK: P244296 BKG: P244296								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240016
Reported: 04/21/11 at 12:09 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
7a Perchlorate EPA 314.0	96		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11102102201A	Sample number(s): 6245566-6245567 UNSPK: P244296 BKG: P244296										
17a Cyanide by 9012B	110		75-125			0.17	U	0.17	U	0 (1)	20
Batch number: 11102102201B	Sample number(s): 6245570 UNSPK: 6245570 BKG: 6245570										
17a Cyanide by 9012B	115		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11105105201A	Sample number(s): 6245566-6245570 UNSPK: 6245566 BKG: 6245566										
11a Anions by 300.0 - Fluoride	85		80-120			1.4		1.4		0 (1)	20
11a Anions by 300.0 - Nitrate	121*		80-120			11.0		11.5		4	20
Batch number: 11107243201A	Sample number(s): 6245566-6245570 UNSPK: 6245568 BKG: 6245568										
3a Cr VI by EPA 7199	92		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11094039401B	Sample number(s): 6245566-6245568 BKG: P244296										
18a pH by 9045C						7.95		8.00		1	1
Batch number: 11094039402A	Sample number(s): 6245569-6245570 BKG: P247208										
18a pH by 9045C						6.37		6.32		1	1
Batch number: 11094182101B	Sample number(s): 6245566-6245568 BKG: P244296										
32a OR Potential						405		432		6	6
Batch number: 11094182102A	Sample number(s): 6245569-6245570 BKG: P247208										
32a OR Potential						491		499		2	6
Batch number: 11096162401A	Sample number(s): 6245568-6245569 BKG: P240605										
Moisture Content by 160.3						15.5		15.0		3	20
Batch number: 11109162401A	Sample number(s): 6245566-6245567,6245570 BKG: P251858										
Moisture Content by 160.3						11.5		11.6		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110912AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6245566	97	101	100	90
6245567	97	100	100	91
6245568	95	96	100	91
6245570	95	95	102	89
Blank	98	100	101	91
LCS	97	100	103	97
MS	98	98	120*	78
MSD	97	99	102	97

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240016
Reported: 04/21/11 at 12:09 PM

Surrogate Quality Control

Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110941AA

	Toluene-d8
6245571	99
Blank	99
LCS	99
LCSD	99

Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110942AA

	Toluene-d8
6245566	97
6245567	97
6245568	98
6245570	97
Blank	97
LCS	97
LCSD	99

Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110952AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6245571	108	102	99	93
Blank	108	103	100	93
LCS	107	103	101	99
LCSD	107	105	100	98

Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11098SLB026

	N-Nitrosodimethylamine-d6
6245566	97
6245567	92
6245570	102
Blank	99
LCS	108
MS	115
MSD	112

Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11101SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240016
Reported: 04/21/11 at 12:09 PM

Surrogate Quality Control

6245566	100	91	96
6245567	90	83	98
6245568	93	88	99
6245569	92	87	99
6245570	87	83	93
Blank	95	90	102
LCS	97	89	97
MS	95	88	103
MSD	97	91	109
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11102SLH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6245566	93	100	85	103	102	86
6245567	95	102	88	104	104	87
6245568	92	97	85	100	99	91
6245569	88	94	81	96	98	84
6245570	92	100	81	103	102	87
Blank	95	100	91	99	95	82
LCS	92	97	91	97	93	89
MS	93	100	90	103	103	89
MSD	93	100	84	104	104	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11087A34B

	Trifluorotoluene-F
6245566	82
6245567	82
6245570	79
Blank	98
LCS	85
MS	78
MSD	78
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11095B20A

	Trifluorotoluene-F
6245571	75
Blank	75
LCS	124
LCSD	117
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110940004A

	Butyraldehyde

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240016
Reported: 04/21/11 at 12:09 PM

Surrogate Quality Control

6245566	83
6245567	81
6245570	84
Blank	84
LCS	93
MS	95
MSD	93
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111010012A

	2-Nitro-m-xylene
6245566	135
6245567	130
6245570	132
Blank	132
LCS	136
LCSD	133
MS	130
MSD	126
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111030013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6245566	80	66
6245567	74	76
6245568	76	78
6245569	74	88
6245570	78	83
Blank	90	108
LCS	80	103
LCSD	76	96
MS	79	66
MSD	73	65
Limits:	53-139	45-120

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110920013A

	Chlorobenzene	Orthoterphenyl
6245566	87	95
6245567	77	91
6245570	67	84
Blank	77	91
LCS	81	93
MS	81	95
MSD	83	94
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240016
Reported: 04/21/11 at 12:09 PM

Surrogate Quality Control

Analysis Name: 21a Glycols by 8015B
Batch number: 110940011A

	Tetramethylene glycol
6245566	84
6245567	82
Blank	100
LCS	99
MS	107
MSD	96
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 110950026A

	Acetone
6245566	74
6245567	77
6245570	72
Blank	84
LCS	84
MS	76
MSD	76
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111020001A

	Tetramethylene glycol
6245570	78
Blank	149*
LCS	156*
MS	87
MSD	83
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111020016A

	n-Triacontane-d62
6245566	111
6245567	70
6245570	72
Blank	85
LCS	84
MS	85
MSD	71
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1240016 6245566-71

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-094-SA5A-SB-4.5	03.31.11	0910	SOIL	NONE	5-Encores										X	X	X										
SL-094-SA5A-SB-4.0-5.0	03.31.11	0915	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-094-SA5A-SB-9.5	03.31.11	0923	SOIL	NONE	5-Encores										X	X	X										
SL-094-SA5A-SB-9.0-10.0	03.31.11	0933	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-089-SA5A-SB-4.5	03.31.11	1045	SOIL	NONE	4-Encores										X	X											
SL-089-SA5A-SB-4.0-5.0	03.31.11	1050	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-089-SA5A-SB-9.0-10.0	03.31.11	1105	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-075-SA5A-SB-3.0	03.31.11	1448	SOIL	NONE	5-Encores										X	X	X										
SL-075-SA5A-SB-2.5-3.5	03.31.11	1455	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-033111	03.31.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 03/31/2011 / 1700		Received for Laboratory by: (Signature) Gary Berlant 4/1/11 910																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8700 5935 4190																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 05, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/01/2011
Group Number: 1240017
SDG: DX066
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-094-SA5A-SB-4.0-5.0 Soil	6245572
SL-094-SA5A-SB-9.0-10.0 Soil	6245573
SL-089-SA5A-SB-4.0-5.0 Soil	6245574
SL-089-SA5A-SB-9.0-10.0 Soil	6245575
SL-075-SA5A-SB-2.5-3.5 Soil	6245576

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-094-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-4.0-5.0

LLI Sample # SW 6245572
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:15

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0944 SDG#: DX066-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-094-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-4.0-5.0

LLI Sample # SW 6245572
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:15

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0944 SDG#: DX066-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.268	JQ	0.0477	1.07	1
11031	12378-PeCDD	40321-76-4	1.31	JB	0.0609	5.35	1
11031	123478-HxCDD	39227-28-6	1.49	JQ	0.0430	5.35	1
11031	123678-HxCDD	57653-85-7	3.70	JB	0.0432	5.35	1
11031	123789-HxCDD	19408-74-3	2.83	JB	0.0407	5.35	1
11031	1234678-HpCDD	35822-46-9	71.4	B	0.0807	5.35	1
11031	OCDD	3268-87-9	392	B	0.0542	10.7	1
11031	2378-TCDF	51207-31-9	0.928	J	0.0797	1.07	1
11031	12378-PeCDF	57117-41-6	1.17	JB	0.0282	5.35	1
11031	23478-PeCDF	57117-31-4	2.19	JBQ	0.0315	5.35	1
11031	123478-HxCDF	70648-26-9	1.99	JB	0.0417	5.35	1
11031	123678-HxCDF	57117-44-9	1.77	JB	0.0347	5.35	1
11031	123789-HxCDF	72918-21-9	0.615	JB	0.0507	5.35	1
11031	234678-HxCDF	60851-34-5	2.72	JB	0.0378	5.35	1
11031	1234678-HpCDF	67562-39-4	12.0	B	0.0228	5.35	1
11031	1234789-HpCDF	55673-89-7	1.17	JB	0.0407	5.35	1
11031	OCDF	39001-02-0	18.8	B	0.0337	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-094-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-4.0-5.0

LLI Sample # SW 6245572
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:15

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0944 SDG#: DX066-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-094-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-4.0-5.0

LLI Sample # SW 6245572
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:15

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0944 SDG#: DX066-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105001	04/18/2011 14:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11105001	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-094-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-9.0-10.0

LLI Sample # SW 6245573
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:33

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0949 SDG#: DX066-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-094-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-9.0-10.0

LLI Sample # SW 6245573
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:33

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0949 SDG#: DX066-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0116 U	0.0116	1.06	1
11031	12378-PeCDD	40321-76-4	0.0371 JBQ	0.0176	5.31	1
11031	123478-HxCDD	39227-28-6	0.0203 U	0.0203	5.31	1
11031	123678-HxCDD	57653-85-7	0.0677 JBQ	0.0180	5.31	1
11031	123789-HxCDD	19408-74-3	0.0859 JBQ	0.0154	5.31	1
11031	1234678-HpCDD	35822-46-9	0.544 JB	0.0246	5.31	1
11031	OCDD	3268-87-9	4.21 JB	0.0325	10.6	1
11031	2378-TCDF	51207-31-9	0.0158 JBQ	0.0103	1.06	1
11031	12378-PeCDF	57117-41-6	0.0342 JBQ	0.00809	5.31	1
11031	23478-PeCDF	57117-31-4	0.0827 JB	0.00799	5.31	1
11031	123478-HxCDF	70648-26-9	0.0832 JBQ	0.0252	5.31	1
11031	123678-HxCDF	57117-44-9	0.0598 JB	0.0173	5.31	1
11031	123789-HxCDF	72918-21-9	0.0907 JBQ	0.0104	5.31	1
11031	234678-HxCDF	60851-34-5	0.110 JBQ	0.00927	5.31	1
11031	1234678-HpCDF	67562-39-4	0.210 JB	0.0181	5.31	1
11031	1234789-HpCDF	55673-89-7	0.0639 JBQ	0.0122	5.31	1
11031	OCDF	39001-02-0	0.246 JB	0.0208	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	58	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	26	26 - 152
13C12-123678-HxCDF	37	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	37	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-094-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-9.0-10.0

LLI Sample # SW 6245573
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:33

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0949 SDG#: DX066-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-094-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5A-SB-9.0-10.0

LLI Sample # SW 6245573
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 09:33

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0949 SDG#: DX066-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11102002	04/14/2011 02:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11102002	04/12/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-089-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-4.0-5.0

LLI Sample # SW 6245574
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 10:50

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0894 SDG#: DX066-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-089-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-4.0-5.0

LLI Sample # SW 6245574
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 10:50

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0894 SDG#: DX066-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0103 U	0.0103	1.07	1
11031	12378-PeCDD	40321-76-4	0.0224 JBQ	0.0133	5.34	1
11031	123478-HxCDD	39227-28-6	0.0158 JBQ	0.0116	5.34	1
11031	123678-HxCDD	57653-85-7	0.0296 JBQ	0.0107	5.34	1
11031	123789-HxCDD	19408-74-3	0.0354 JBQ	0.00965	5.34	1
11031	1234678-HpCDD	35822-46-9	0.256 JB	0.0166	5.34	1
11031	OCDD	3268-87-9	0.985 JB	0.0312	10.7	1
11031	2378-TCDF	51207-31-9	0.00987 U	0.00987	1.07	1
11031	12378-PeCDF	57117-41-6	0.0184 JBQ	0.00586	5.34	1
11031	23478-PeCDF	57117-31-4	0.0809 JB	0.00575	5.34	1
11031	123478-HxCDF	70648-26-9	0.0592 JB	0.0191	5.34	1
11031	123678-HxCDF	57117-44-9	0.0355 JBQ	0.0132	5.34	1
11031	123789-HxCDF	72918-21-9	0.0407 JBQ	0.00889	5.34	1
11031	234678-HxCDF	60851-34-5	0.0803 JBQ	0.00770	5.34	1
11031	1234678-HpCDF	67562-39-4	0.145 JBQ	0.0165	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0326 JBQ	0.0132	5.34	1
11031	OCDF	39001-02-0	0.192 JBQ	0.0222	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	39	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	41	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-4.0-5.0

LLI Sample # SW 6245574
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 10:50

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0894 SDG#: DX066-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-4.0-5.0

LLI Sample # SW 6245574
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 10:50

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0894 SDG#: DX066-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11102002	04/14/2011 03:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11102002	04/12/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-9.0-10.0

LLI Sample # SW 6245575
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 11:05

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0899 SDG#: DX066-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	23.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-9.0-10.0

LLI Sample # SW 6245575
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 11:05

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0899 SDG#: DX066-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0147 U	0.0147	1.27	1
11031	12378-PeCDD	40321-76-4	0.0523 JBQ	0.0219	6.36	1
11031	123478-HxCDD	39227-28-6	0.0202 U	0.0202	6.36	1
11031	123678-HxCDD	57653-85-7	0.108 JB	0.0182	6.36	1
11031	123789-HxCDD	19408-74-3	0.136 JB	0.0158	6.36	1
11031	1234678-HpCDD	35822-46-9	1.24 JB	0.0349	6.36	1
11031	OCDD	3268-87-9	10.9 JB	0.0380	12.7	1
11031	2378-TCDF	51207-31-9	0.0293 JBQ	0.0154	1.27	1
11031	12378-PeCDF	57117-41-6	0.0505 JB	0.0102	6.36	1
11031	23478-PeCDF	57117-31-4	0.141 JB	0.0102	6.36	1
11031	123478-HxCDF	70648-26-9	0.140 JBQ	0.0346	6.36	1
11031	123678-HxCDF	57117-44-9	0.0866 JBQ	0.0236	6.36	1
11031	123789-HxCDF	72918-21-9	0.148 JBQ	0.0150	6.36	1
11031	234678-HxCDF	60851-34-5	0.138 JB	0.0129	6.36	1
11031	1234678-HpCDF	67562-39-4	0.306 JB	0.0227	6.36	1
11031	1234789-HpCDF	55673-89-7	0.0841 JBQ	0.0176	6.36	1
11031	OCDF	39001-02-0	0.613 JB	0.0297	12.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	26	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-9.0-10.0

LLI Sample # SW 6245575
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 11:05

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0899 SDG#: DX066-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-089-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5A-SB-9.0-10.0

LLI Sample # SW 6245575
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 11:05

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0899 SDG#: DX066-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11102002	04/14/2011 04:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11102002	04/12/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11096162401A	04/06/2011 18:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-075-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5A-SB-2.5-3.5

LLI Sample # SW 6245576
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 14:55

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0752 SDG#: DX066-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-075-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5A-SB-2.5-3.5

LLI Sample # SW 6245576
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 14:55

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0752 SDG#: DX066-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0180	U	0.0180	1.11	1
11031	12378-PeCDD	40321-76-4	0.0210	U	0.0210	5.55	1
11031	123478-HxCDD	39227-28-6	0.0339	JQ	0.0220	5.55	1
11031	123678-HxCDD	57653-85-7	0.0726	JB	0.0215	5.55	1
11031	123789-HxCDD	19408-74-3	0.0979	JBQ	0.0183	5.55	1
11031	1234678-HpCDD	35822-46-9	0.763	JB	0.0253	5.55	1
11031	OCDD	3268-87-9	8.29	JB	0.0247	11.1	1
11031	2378-TCDF	51207-31-9	0.0279	J	0.0183	1.11	1
11031	12378-PeCDF	57117-41-6	0.00877	U	0.00877	5.55	1
11031	23478-PeCDF	57117-31-4	0.0693	JB	0.0106	5.55	1
11031	123478-HxCDF	70648-26-9	0.0454	JBQ	0.0205	5.55	1
11031	123678-HxCDF	57117-44-9	0.0511	JB	0.0147	5.55	1
11031	123789-HxCDF	72918-21-9	0.0750	JBQ	0.0180	5.55	1
11031	234678-HxCDF	60851-34-5	0.0876	JBQ	0.0155	5.55	1
11031	1234678-HpCDF	67562-39-4	0.159	JBQ	0.00888	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0605	JBQ	0.0189	5.55	1
11031	OCDF	39001-02-0	0.337	JB	0.0303	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-075-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5A-SB-2.5-3.5

LLI Sample # SW 6245576
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 14:55

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0752 SDG#: DX066-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-075-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5A-SB-2.5-3.5

LLI Sample # SW 6245576
LLI Group # 1240017
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/31/2011 14:55

Submitted: 04/01/2011 09:10
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0752 SDG#: DX066-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105001	04/18/2011 15:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11105001	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240017
Reported: 05/05/11 at 05:24 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11096162401A	Sample number(s): 6245574-6245575								
Moisture Content by 160.3					100		80-120		
Batch number: 11109162401A	Sample number(s): 6245572-6245573,6245576								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11102002	Sample number(s): 6245573-6245575								
2378-TCDD	0.0239 J	0.0125	1.00	ng/kg	89		67-158		
12378-PeCDD	0.0307 J	0.0130	5.00	ng/kg	90		70-142		
123478-HxCDD	0.0273 J	0.0122	5.00	ng/kg	89		70-164		
123678-HxCDD	0.0220 J	0.0115	5.00	ng/kg	87		76-134		
123789-HxCDD	0.0366 J	0.00980	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.196 J	0.0170	5.00	ng/kg	88		70-140		
OCDD	1.15 J	0.0332	10.0	ng/kg	88		78-144		
2378-TCDF	0.0120 J	0.0102	1.00	ng/kg	89		75-158		
12378-PeCDF	0.0371 J	0.00670	5.00	ng/kg	87		80-134		
23478-PeCDF	0.0831 J	0.00670	5.00	ng/kg	88		68-160		
123478-HxCDF	0.0690 J	0.0225	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0643 J	0.0160	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0560 J	0.00880	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0978 J	0.00820	5.00	ng/kg	91		70-156		
1234678-HpCDF	0.128 J	0.0146	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0709 J	0.0106	5.00	ng/kg	90		78-138		
OCDF	0.231 J	0.0183	10.0	ng/kg	89		63-170		
Batch number: 11105001	Sample number(s): 6245572,6245576								
2378-TCDD	0.0188 U	0.0188	1.00	ng/kg	90		67-158		
12378-PeCDD	0.0338 J	0.0193	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0154 U	0.0154	5.00	ng/kg	93		70-164		
123678-HxCDD	0.0256 J	0.0164	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0539 J	0.0154	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.347 J	0.0204	5.00	ng/kg	92		70-140		
OCDD	0.581 J	0.0180	10.0	ng/kg	91		78-144		
2378-TCDF	0.0204 U	0.0204	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0319 J	0.00940	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0552 J	0.0105	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0467 J	0.0140	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0341 J	0.0107	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0443 J	0.0163	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0734 J	0.0120	5.00	ng/kg	90		70-156		
1234678-HpCDF	0.160 J	0.00650	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.108 J	0.0135	5.00	ng/kg	92		78-138		
OCDF	0.263 J	0.0245	10.0	ng/kg	90		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240017
Reported: 05/05/11 at 05:24 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11096162401A	Sample number(s): 6245574-6245575					BKG: P240605			
Moisture Content by 160.3						15.5	15.0	3	20
Batch number: 11109162401A	Sample number(s): 6245572-6245573,6245576					BKG: P251858			
Moisture Content by 160.3						11.5	11.6	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11102002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6245573	74	66	26	37	68	68
6245574	76	66	28	39	67	66
6245575	78	65	26	38	66	65
Blank	88	74	28	40	76	78
OPR	72	57	22	30	64	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6245573	37	66	58	84	75	58
6245574	41	59	47	85	77	65
6245575	42	63	58	85	77	63
Blank	43	73	65	99	88	76
OPR	30	58	45	76	71	51
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6245573	69	77	75	73	68	68
6245574	73	78	77	71	68	70
6245575	73	80	79	77	68	71
Blank	82	92	89	83	76	79
OPR	60	76	71	67	66	66
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240017
Reported: 05/05/11 at 05:24 PM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11105001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6245572	75	74	64	76	71	60
6245576	78	66	50	68	63	66
Blank	71	59	58	73	62	53
OPR	66	57	53	68	59	50
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6245572	95	66	58	89	82	80
6245576	88	48	44	88	79	73
Blank	91	50	49	90	71	78
OPR	84	47	46	87	67	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6245572	82	84	84	83	72	91
6245576	75	90	82	80	69	86
Blank	75	79	77	75	61	71
OPR	71	72	72	70	59	67
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 ~~123~~ Amo 6/6/14 6245572-76
1240017

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
§ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: N Bregger

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-094-SA5A-SB-4.5	03.31.11	0910	SOIL	NONE	5-Encores										X	X	X										
SL-094-SA5A-SB-4.0-5.0	03.31.11	0915	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-094-SA5A-SB-9.5	03.31.11	0923	SOIL	NONE	5-Encores										X	X	X										
SL-094-SA5A-SB-9.0-10.0	03.31.11	0933	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-089-SA5A-SB-4.5	03.31.11	1045	SOIL	NONE	4-Encores										X	X											
SL-089-SA5A-SB-4.0-5.0	03.31.11	1050	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-089-SA5A-SB-9.0-10.0	03.31.11	1105	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-075-SA5A-SB-3.0	03.31.11	1448	SOIL	NONE	5-Encores										X	X	X										
SL-075-SA5A-SB-2.5-3.5	03.31.11	1455	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-033111	03.31.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time 03/31/2011 / 1700	Received for Laboratory by: (Signature) Gary Berlant 4/1/11 910	Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	AirBill No.(s) 8700 5935 4190	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 28, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/02/2011
Group Number: 1240242
SDG: DE117
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-076-SA5A-SB-4.0-5.0 Soil	6247206
SL-072-SA5A-SB-4.0-5.0 Soil	6247207
SL-071-SA5A-SB-4.0-5.0 Soil	6247208
TB-040111 Water	6247209

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SB-4.0-5.0

LLI Sample # SW 6247206
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 10:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-1 SDG#: DE117-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		1.04
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.04
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.04
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.04
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.04
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		1.04
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		1.04
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.04
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		1.04
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1.04
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.04
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.04
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.04
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1.04
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1.04
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1.04
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		1.04
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.04
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.04
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		1.04
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.04
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.04
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		1.04
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.04
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.04
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.04
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.04
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.04
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1.04
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1.04
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.04
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		1.04
06192	Methylene Chloride	75-09-2	0.57	J	0.26	4.4		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.04

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SB-4.0-5.0

LLI Sample # SW 6247206
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 10:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-1 SDG#: DE117-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1.04
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.04
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4		1.04
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		1.04
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.04
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.04
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.04
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.6	U	6.6	20		31.49
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	174	U	174	347		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SB-4.0-5.0

LLI Sample # SW 6247206
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 10:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-1 SDG#: DE117-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	13	J	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1

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Sample Description: SL-076-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SB-4.0-5.0

LLI Sample # SW 6247206
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 10:55

Submitted: 04/02/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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117-1 SDG#: DE117-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	12	J	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	U	0.3	1.3		31.09
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1

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Sample Description: SL-076-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SB-4.0-5.0

LLI Sample # SW 6247206
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 10:55

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Suite 210
Chantilly VA 20151

117-1 SDG#: DE117-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	1.5		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	4.1		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.47	J	0.42	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted outside the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1

The sample was initially prepared and analyzed within the project specific hold time of 7 days. However, the ending continuing calibration standard was outside the acceptance limits. The sample was reanalyzed outside 7 days but within 14 days of collection. Since the ending continuing calibration standard was within the acceptance limits, the second trial is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SB-4.0-5.0

LLI Sample # SW 6247206
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 10:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-1 SDG#: DE117-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,800		5.19	20.6		1
07914	Boron	7440-42-8	2.83	J	0.918	5.15		1
01650	Calcium	7440-70-2	2,330		6.32	20.6		1
01654	Iron	7439-89-6	25,000		4.86	20.6		1
01656	Lithium	7439-93-2	23.9		0.23	2.1		1
01657	Magnesium	7439-95-4	4,520		2.62	10.3		1
06958	Manganese	7439-96-5	245		0.0804	0.515		1
10145	Phosphorus	7723-14-0	197		0.577	10.3		1
01662	Potassium	7440-09-7	1,900		18.6	51.5		1
01667	Sodium	7440-23-5	130		38.5	103		1
07968	Strontium	7440-24-6	18.0		0.0639	0.515		1
06969	Tin	7440-31-5	3.41	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,210		0.392	1.03		1
10146	Zirconium	7440-67-7	4.02	J	0.866	5.15		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.193	J	0.0625	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.28		0.0833	0.416		2
06126	Barium	7440-39-3	112		0.112	0.416		2
06127	Beryllium	7440-41-7	0.914		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.0936	J	0.0416	0.104		2
06131	Chromium	7440-47-3	22.2		0.125	0.416		2
06132	Cobalt	7440-48-4	7.63		0.0208	0.104		2
06133	Copper	7440-50-8	11.4		0.0687	0.416		2
06135	Lead	7439-92-1	7.79		0.0108	0.208		2
06138	Molybdenum	7439-98-7	1.18		0.0521	0.104		2
06139	Nickel	7440-02-0	13.8		0.104	0.416		2
06141	Selenium	7782-49-2	0.150	J	0.0416	0.416		2
06142	Silver	7440-22-4	0.0414	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.233		0.0312	0.104		2
06148	Vanadium	7440-62-2	44.7		0.0225	0.102		2
06149	Zinc	7440-66-6	62.9		0.583	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0035	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.84	U	0.84	1.6		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SB-4.0-5.0

LLI Sample # SW 6247206
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 10:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-1 SDG#: DE117-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	493		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.95		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA5A-SB-4.5.
The temperature of the sample bottle(s) upon receipt at the lab was 6.1-11.9 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110951AA	04/05/2011 16:44	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110942AA	04/04/2011 16:51	Jason M Long	31.49
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109224004	04/02/2011 13:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109224004	04/02/2011 13:11	Christopher D Meeks	n.a.

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Sample Description: **SL-076-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SB-4.0-5.0

LLI Sample # SW 6247206
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 10:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-1 SDG#: DE117-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109224004	04/02/2011 13:11	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109224004	04/02/2011 13:03	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/20/2011 11:57	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11102SLH026	04/15/2011 05:27	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11101SLB026	04/12/2011 19:04	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11101SLB026	04/11/2011 18:45	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11102SLH026	04/13/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34B	04/05/2011 12:57	Marie D John	31.09
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109224004	04/02/2011 13:02	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111010012A	04/13/2011 14:35	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/07/2011 16:05	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 05:01	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111010012A	04/11/2011 16:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111020021A	04/14/2011 10:16	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110950026A	04/05/2011 20:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111020001A	04/12/2011 18:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 04:14	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111020021A	04/13/2011 03:30	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	111020001A	04/12/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110950026A	04/05/2011 17:35	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SB-4.0-5.0

LLI Sample # SW 6247206
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 10:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-1 SDG#: DE117-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 05:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 12:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 12:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 12:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 12:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 12:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 12:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 12:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 12:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 12:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 12:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 12:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 12:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 12:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 12:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 12:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201A	04/16/2011 10:57	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11105105201A	04/16/2011 10:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201A	04/26/2011 10:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11107243201A	04/19/2011 03:14	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201B	04/13/2011 21:00	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201A	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201A	04/11/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201B	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182102A	04/04/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039402A	04/04/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-072-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SB-4.0-5.0

LLI Sample # SW 6247207
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 11:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-2 SDG#: DE117-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	J	6.4	7.6		0.82
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.82
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.82
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.82
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.82
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.82
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.82
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.82
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.82
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.82
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.82
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.82
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.82
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.82
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.82
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.82
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.82
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.82
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.82
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.82
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.82
06192	Methylene Chloride	75-09-2	0.45	J	0.23	3.8		0.82
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.82

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Sample Description: SL-072-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SB-4.0-5.0

LLI Sample # SW 6247207
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 11:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-2 SDG#: DE117-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.82
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.82
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.82
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.82
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.82
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.82
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.82
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.82
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.42
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	54.3		19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-072-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SB-4.0-5.0

LLI Sample # SW 6247207
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 11:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-2 SDG#: DE117-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	12	J	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	11	J	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	47		7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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Sample Description: SL-072-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SB-4.0-5.0

LLI Sample # SW 6247207
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 11:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-2 SDG#: DE117-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	17	J	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.56
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: **SL-072-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SB-4.0-5.0

LLI Sample # SW 6247207
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 11:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-2 SDG#: DE117-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	1,400	U	1,400	3,500		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.1	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.3		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.67	J	0.46	1.4		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted outside the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
	The sample was initially prepared and analyzed within the project specific hold time of 7 days. However, the ending continuing calibration standard was outside the acceptance limits. The sample was reanalyzed outside 7 days but within 14 days of collection. Since the ending continuing calibration standard was within the acceptance limits, the second trial is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1

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Sample Description: SL-072-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SB-4.0-5.0

LLI Sample # SW 6247207
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 11:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-2 SDG#: DE117-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		5.61	22.3		1
07914	Boron	7440-42-8	3.41	J	0.993	5.58		1
01650	Calcium	7440-70-2	2,970		6.84	22.3		1
01654	Iron	7439-89-6	27,000		5.25	22.3		1
01656	Lithium	7439-93-2	25.7		0.25	2.2		1
01657	Magnesium	7439-95-4	5,160		2.83	11.2		1
06958	Manganese	7439-96-5	382		0.0870	0.558		1
10145	Phosphorus	7723-14-0	409		0.625	11.2		1
01662	Potassium	7440-09-7	4,750		20.1	55.8		1
01667	Sodium	7440-23-5	84.4	J	41.6	112		1
07968	Strontium	7440-24-6	24.5		0.0692	0.558		1
06969	Tin	7440-31-5	3.36	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,400		0.424	1.12		1
10146	Zirconium	7440-67-7	4.27	J	0.937	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.273		0.0689	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.41		0.0919	0.459		2
06126	Barium	7440-39-3	149		0.310	1.15		5
06127	Beryllium	7440-41-7	1.07		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.383		0.0459	0.115		2
06131	Chromium	7440-47-3	33.0		0.138	0.459		2
06132	Cobalt	7440-48-4	11.8		0.0230	0.115		2
06133	Copper	7440-50-8	21.4		0.0758	0.459		2
06135	Lead	7439-92-1	10.4		0.0119	0.230		2
06138	Molybdenum	7439-98-7	1.09		0.0574	0.115		2
06139	Nickel	7440-02-0	24.3		0.115	0.459		2
06141	Selenium	7782-49-2	0.274	J	0.0459	0.459		2
06142	Silver	7440-22-4	0.0793	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.408		0.0345	0.115		2
06148	Vanadium	7440-62-2	44.9		0.0248	0.113		2
06149	Zinc	7440-66-6	90.7		0.643	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.93	U	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SB-4.0-5.0

LLI Sample # SW 6247207
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 11:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-2 SDG#: DE117-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	480		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.61		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-072-SA5A-SB-4.5.
The temperature of the sample bottle(s) upon receipt at the lab was 6.1-11.9 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110951AA	04/05/2011 17:07	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110942AA	04/04/2011 17:11	Jason M Long	20.42
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109224004	04/02/2011 13:05	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109224004	04/02/2011 13:11	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-072-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SB-4.0-5.0

LLI Sample # SW 6247207
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 11:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-2 SDG#: DE117-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109224004	04/02/2011 13:11	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109224004	04/02/2011 13:05	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/20/2011 12:13	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11102SLH026	04/15/2011 05:52	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11101SLB026	04/12/2011 19:36	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11101SLB026	04/11/2011 18:45	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11102SLH026	04/13/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34B	04/05/2011 13:33	Marie D John	20.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109224004	04/02/2011 13:05	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111010012A	04/13/2011 16:42	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/07/2011 00:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 05:19	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111010012A	04/11/2011 16:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111020021A	04/14/2011 10:42	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110950026A	04/05/2011 21:26	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111020001A	04/12/2011 18:23	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 04:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111020021A	04/13/2011 03:30	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	111020001A	04/12/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110950026A	04/05/2011 17:35	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1

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Sample Description: **SL-072-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SB-4.0-5.0

LLI Sample # SW 6247207
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 11:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-2 SDG#: DE117-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 05:05	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 12:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 12:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 23:14	David K Beck	5
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 12:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 12:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 12:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 12:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 12:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 12:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 12:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 12:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 12:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 12:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 12:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 12:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201A	04/16/2011 11:11	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11105105201A	04/16/2011 11:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201A	04/25/2011 19:26	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11107243201A	04/19/2011 03:36	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201B	04/13/2011 21:01	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201A	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201A	04/11/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201B	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182102A	04/04/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039402A	04/04/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-071-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5A-SB-4.0-5.0

LLI Sample # SW 6247208
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 12:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-3 SDG#: DE117-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.96
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.96
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.96
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.96
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.96
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.96
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.96
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.96
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.96
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.96
06192	Methylene Chloride	75-09-2	0.65	J	0.25	4.2		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.96

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Sample Description: SL-071-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5A-SB-4.0-5.0

LLI Sample # SW 6247208
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 12:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-3 SDG#: DE117-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.96
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.96
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.3	U	4.3	13		19.53
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	33.9	J	18.0	36.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-071-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5A-SB-4.0-5.0

LLI Sample # SW 6247208
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 12:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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117-3 SDG#: DE117-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	11	J	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	9.8	J	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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SSFL Area IV Collocated Soil Sampling
SL-071-SA5A-SB-4.0-5.0

LLI Sample # SW 6247208
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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117-3 SDG#: DE117-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	7.2	J	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.75
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	1.1	J	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	4.6		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.48	J	0.43	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted outside the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

The sample was initially prepared and analyzed within the project specific hold time of 7 days. However, the ending continuing calibration standard was outside the acceptance limits. The sample was reanalyzed outside 7 days but within 14 days of collection. Since the ending continuing calibration standard was within the acceptance limits, the second trial is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1

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SSFL Area IV Collocated Soil Sampling
SL-071-SA5A-SB-4.0-5.0

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LLI Group # 1240242
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117-3 SDG#: DE117-03

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Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,000		5.40	21.5		1
07914	Boron	7440-42-8	0.955	U	0.955	5.36		1
01650	Calcium	7440-70-2	1,960		6.58	21.5		1
01654	Iron	7439-89-6	26,800		25.3	107		5
01656	Lithium	7439-93-2	19.3		0.24	2.1		1
01657	Magnesium	7439-95-4	3,960		2.72	10.7		1
06958	Manganese	7439-96-5	164		0.0837	0.536		1
10145	Phosphorus	7723-14-0	249		0.601	10.7		1
01662	Potassium	7440-09-7	2,070		19.3	53.6		1
01667	Sodium	7440-23-5	131		40.0	107		1
07968	Strontium	7440-24-6	14.3		0.0665	0.536		1
06969	Tin	7440-31-5	3.50	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,150		0.408	1.07		1
10146	Zirconium	7440-67-7	4.42	J	0.901	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.188	J	0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.0		0.0858	0.429		2
06126	Barium	7440-39-3	140		0.116	0.429		2
06127	Beryllium	7440-41-7	1.20		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.0786	J	0.0429	0.107		2
06131	Chromium	7440-47-3	26.6		0.129	0.429		2
06132	Cobalt	7440-48-4	7.32		0.0215	0.107		2
06133	Copper	7440-50-8	13.7		0.0708	0.429		2
06135	Lead	7439-92-1	9.93		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.939		0.0536	0.107		2
06139	Nickel	7440-02-0	15.4		0.107	0.429		2
06141	Selenium	7782-49-2	0.245	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0777	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.320		0.0322	0.107		2
06148	Vanadium	7440-62-2	57.3		0.0238	0.108		2
06149	Zinc	7440-66-6	70.0		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0096	J	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1

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SSFL Area IV Collocated Soil Sampling
SL-071-SA5A-SB-4.0-5.0

LLI Sample # SW 6247208
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Project Name: SSFL Area IV Collocated Soil Sampling

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117-3 SDG#: DE117-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	491		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.37		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-071-SA5A-SB-4.5.
The temperature of the sample bottle(s) upon receipt at the lab was 6.1-11.9 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110951AA	04/05/2011 17:29	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110942AA	04/04/2011 17:31	Jason M Long	19.53
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109224004	04/02/2011 13:08	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109224004	04/02/2011 13:11	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109224004	04/02/2011 13:11	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109224004	04/02/2011 13:09	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-071-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5A-SB-4.0-5.0

LLI Sample # SW 6247208
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 12:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-3 SDG#: DE117-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/20/2011 12:29	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11102SLH026	04/15/2011 06:17	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11101SLB026	04/12/2011 20:08	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11101SLB026	04/11/2011 18:45	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11102SLH026	04/13/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11087A34B	04/05/2011 14:09	Marie D John	24.75
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109224004	04/02/2011 13:08	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111010012A	04/13/2011 17:24	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110940004A	04/07/2011 16:14	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 05:38	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110940004A	04/05/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111010012A	04/11/2011 16:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111020021A	04/14/2011 11:07	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110950026A	04/05/2011 21:41	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111020001A	04/12/2011 18:41	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111020016A	04/19/2011 05:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111020021A	04/13/2011 03:30	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	2	111020016A	04/12/2011 19:00	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	111020001A	04/12/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110950026A	04/05/2011 17:35	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110945708002	04/13/2011 05:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110945708002	04/13/2011 05:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110945708002	04/13/2011 05:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	2	110945708002	04/13/2011 09:34	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110945708002	04/13/2011 05:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110945708002	04/13/2011 05:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110945708002	04/13/2011 05:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110945708002	04/13/2011 05:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110945708002	04/13/2011 05:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110945708002	04/13/2011 05:09	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110945708002	04/13/2011 05:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110945708002	04/13/2011 05:09	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110945708002	04/13/2011 05:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110945708002	04/13/2011 05:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110941026001A	04/05/2011 12:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110941026001A	04/05/2011 12:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110941026001D	04/05/2011 12:13	Choon Y Tian	2

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Sample Description: **SL-071-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5A-SB-4.0-5.0

LLI Sample # SW 6247208
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 12:55

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-3 SDG#: DE117-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110941026001A	04/05/2011 12:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110941026001A	04/05/2011 12:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110941026001A	04/05/2011 12:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110941026001A	04/05/2011 12:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110941026001A	04/05/2011 12:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110941026001A	04/05/2011 12:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110941026001C	04/05/2011 12:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110941026001A	04/05/2011 12:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110941026001B	04/05/2011 12:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110941026001A	04/05/2011 12:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110941026001A	04/05/2011 12:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110971026001A	04/11/2011 15:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110941026001A	04/05/2011 12:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110945711002	04/05/2011 04:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110945708002	04/04/2011 20:29	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110941026001	04/04/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110971026001	04/07/2011 20:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110945711002	04/04/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201A	04/16/2011 11:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11105105201A	04/16/2011 11:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201A	04/25/2011 19:49	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11107243201A	04/19/2011 03:51	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201B	04/13/2011 21:02	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201A	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201A	04/11/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201B	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11094182102A	04/04/2011 13:25	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11094039402A	04/04/2011 13:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-040111 Water
SSFL Area IV Collocated Soil Sampling
TB-040111

LLI Sample # WW 6247209
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 08:00

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-4 SDG#: DE117-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
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Sample Description: **TB-040111 Water**
SSFL Area IV Collocated Soil Sampling
TB-040111

LLI Sample # WW 6247209
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 08:00

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-4 SDG#: DE117-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 6.1-11.9 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110952AA	04/05/2011 19:36	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110941AA	04/04/2011 10:21	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110941AA	04/04/2011 10:21	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110952AA	04/05/2011 19:36	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11098A20A	04/11/2011 11:23	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: **TB-040111 Water**
SSFL Area IV Collocated Soil Sampling
TB-040111

LLI Sample # WW 6247209
LLI Group # 1240242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 08:00

Submitted: 04/02/2011 09:15
Reported: 04/28/2011 16:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

117-4 SDG#: DE117-04TB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01146	GC VOA Water Prep	SW-846 5030B	1	11098A20A	04/11/2011 11:23	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110951AA	Sample number(s): 6247206-6247208									
Acetone	6.7	U	6.7	8.0	ug/kg	95	102	32-209	7	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	100	80-120	5	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103	98	79-120	5	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	119	117	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92	92	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	85	89	70-120	4	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	90	83	32-162	9	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	94	100	46-153	7	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	109	103	72-120	6	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	113	105	75-120	7	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	103	95	75-120	7	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	93	87	69-122	6	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	98	94	80-120	4	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	91	84	37-154	9	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	79	85	43-146	7	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	96	80-120	4	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	94	88	54-132	6	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	99	78-120	5	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	97	79-120	6	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	85	77	22-131	11	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	91	96	58-120	5	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	89	90	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99	100	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	95	97	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	95	79-120	3	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101	97	78-120	4	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	101	97	79-120	4	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	81	74	20-120	8	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	97	80-120	4	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	96	95	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	111	102	73-123	8	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	100	96	80-120	5	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	97	79-120	6	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	99	97	80-120	3	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	98	99	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	88	85	72-123	4	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100	94	77-120	7	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92	91	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87	88	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101	95	80-120	6	30
Freon 113	0.11	U	0.11	4.0	ug/kg	113	104	61-126	8	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	109	98	78-120	10	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	102	96	57-120	6	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	96	104	45-155	8	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101	95	76-120	6	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108	102	75-120	6	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	92	96	74-121	4	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	94	101	61-134	7	30
Methylene Chloride	0.42	J	0.24	4.0	ug/kg	108	103	76-124	5	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	112	104	77-120	7	30
Styrene	0.10	U	0.10	4.0	ug/kg	95	91	76-120	5	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	93	89	80-120	4	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103	106	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100	94	77-120	6	30
Toluene	0.08	U	0.08	4.0	ug/kg	101	95	80-120	7	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	98	96	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	93	91	68-120	2	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95	91	71-125	5	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98	97	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	93	80-120	5	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	100	92	58-133	9	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	103	105	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104	99	79-120	6	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	108	101	78-120	6	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	94	87	53-120	8	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99	94	80-120	5	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	95	90	80-120	6	30
Batch number: E110941AA	Sample number(s): 6247209									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	113	113	80-123	1	30
Batch number: E110942AA	Sample number(s): 6247206-6247208									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	106	70-130	7	30
Batch number: Y110952AA	Sample number(s): 6247209									
Acetone	6	U	6.	20	ug/l	101	96	49-234	6	30
Benzene	0.5	U	0.5	5	ug/l	105	98	79-120	7	30
Bromobenzene	1	U	1.	5	ug/l	104	99	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	112	107	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	111	103	80-120	7	30
Bromoform	1	U	1.	5	ug/l	92	87	61-120	6	30
Bromomethane	1	U	1.	5	ug/l	117	109	44-120	7	30
2-Butanone	3	U	3.	10	ug/l	101	96	66-151	6	30
n-Butylbenzene	1	U	1.	5	ug/l	95	89	74-120	7	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	94	78-120	6	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	89	80-120	7	30
Carbon Tetrachloride	1	U	1.	5	ug/l	120	110	75-123	8	30
Chlorobenzene	0.8	U	0.8	5	ug/l	104	98	80-120	6	30
Chloroethane	1	U	1.	5	ug/l	109	101	49-129	8	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	90	86	56-129	4	30
Chloroform	0.8	U	0.8	5	ug/l	116	107	77-122	8	30
Chloromethane	1	U	1.	5	ug/l	80	77	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	101	94	80-120	6	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	96	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	77	66	38-136	15	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	94	90	56-126	5	30
Dibromochloromethane	1	U	1.	5	ug/l	103	96	80-120	7	30
1,2-Dibromoethane	1	U	1.	5	ug/l	106	99	80-120	7	30
Dibromomethane	1	U	1.	5	ug/l	109	104	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	101	96	80-120	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	102	98	80-120	4	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	102	97	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	97	87	47-120	10	30
1,1-Dichloroethane	1	U	1.	5	ug/l	107	99	79-120	7	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	127	119	70-130	6	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	109	100	74-123	9	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	99	80-120	4	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	96	80-120	6	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	94	78-120	5	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	97	80-120	6	30
2,2-Dichloropropane	1	U	1.	5	ug/l	106	99	77-124	7	30
1,1-Dichloropropene	1	U	1.	5	ug/l	108	100	80-120	8	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	100	94	80-120	5	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	96	90	79-120	6	30
Ethylbenzene	0.8	U	0.8	5	ug/l	103	96	79-120	7	30
Freon 113	2	U	2.	10	ug/l	120	109	69-128	10	30
Freon 133a	2	U	2.	5	ug/l	116	103	77-120	12	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	93	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	96	91	65-136	6	30
Isopropylbenzene	1	U	1.	5	ug/l	104	97	77-120	7	30
p-Isopropyltoluene	1	U	1.	5	ug/l	99	94	80-120	6	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	100	76-120	5	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	102	96	70-121	6	30
Methylene Chloride	2	U	2.	5	ug/l	113	100	80-120	13	30
n-Propylbenzene	1	U	1.	5	ug/l	101	95	80-120	6	30
Styrene	1	U	1.	5	ug/l	98	92	80-120	7	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	106	99	80-120	7	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	91	71-120	3	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	110	103	80-121	7	30
Toluene	0.7	U	0.7	5	ug/l	101	95	79-120	7	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	97	94	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	87	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	117	108	75-127	8	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	103	98	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	109	101	80-120	8	30
Trichlorofluoromethane	2	U	2.	5	ug/l	135*	125	64-129	8	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	106	100	80-120	6	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	101	95	74-120	6	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	102	96	75-120	7	30
Vinyl Chloride	1	U	1.	5	ug/l	93	86	65-125	7	30
m+p-Xylene	0.8	U	0.8	5	ug/l	102	96	80-120	6	30
o-Xylene	0.8	U	0.8	5	ug/l	99	93	80-120	6	30
Batch number: 11098SLB026	Sample number(s): 6247206-6247208									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	79		70-130		
Batch number: 11101SLB026	Sample number(s): 6247206-6247208									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	98		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	77		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	87		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	78		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	80		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	109		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	112		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	77		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	100		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	106		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	118		67-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	106		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	77		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	93		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	92		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	96		56-121		
Batch number: 11102SLH026	Sample number(s): 6247206-6247208									
Aniline	170 U		170.	500	ug/kg	66		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzoic acid	170 U		170.	500	ug/kg	91		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		79-117		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	39		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	79		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	93		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	35		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	96		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	92		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	91		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	83		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	93		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	92		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	96		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		68-105		
Isophorone	17	U	17.	170	ug/kg	95		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	88		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	97		71-104		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	84		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	86		51-117		
Phenol	17	U	17.	170	ug/kg	85		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	93		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11087A34B	Sample number(s): 6247206-6247208									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11098A20A	Sample number(s): 6247209									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111010012A	Sample number(s): 6247206-6247208									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	110		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	97	54-134	1	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	96	54-134	1	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
HMX	100	U	100.	300	ug/kg	100		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	109		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800	U	800.	2,400	ug/kg	115		80-120		
RDX	50	U	50.	120	ug/kg	97		75-131		
Tetryl	61	U	61.	120	ug/kg	87		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
Batch number: 110940004A	Sample number(s): 6247206-6247208									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	92		80-126		
Batch number: 111030013A	Sample number(s): 6247206-6247208									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	75	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	103		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111020021A	Sample number(s): 6247206-6247208									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	105		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	106		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	108		66-113		
EFH (C30 - C40)	1.1	J	0.40	1.2	mg/kg	105		66-113		
EFH (C8-C11)	0.59	J	0.40	1.2	mg/kg	90		66-113		
Batch number: 110950026A	Sample number(s): 6247206-6247208									
Ethanol	100	U	100.	500	ug/kg	88		71-129		
Isopropanol	100	U	100.	500	ug/kg	92		75-125		
Methanol	100	U	100.	500	ug/kg	90		68-129		
Batch number: 111020001A	Sample number(s): 6247206-6247208									
Diethylene glycol	5.0	U	5.0	13	mg/kg	160*		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	159*		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	187*		75-125		
Batch number: 111020016A	Sample number(s): 6247206-6247208									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	80		75-125		
Batch number: 110941026001A	Sample number(s): 6247206-6247208									
Antimony	0.0600	U	0.0600	0.200	mg/kg	141		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	100		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	108		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	115		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	103		82-118		
Copper	0.124	J	0.0660	0.400	mg/kg	98		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	102		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	98		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	105		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	100		83-110		
Zinc	0.560	U	0.560	3.00	mg/kg	99		81-112		
Batch number: 110941026001B	Sample number(s): 6247206-6247208									
Selenium	0.0400	U	0.0400	0.400	mg/kg	101		83-111		
Batch number: 110941026001C	Sample number(s): 6247206-6247208									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	117		78-122		
Batch number: 110941026001D	Sample number(s): 6247206-6247208									
Barium	0.108	U	0.108	0.400	mg/kg	106		81-980		
Batch number: 110945708002	Sample number(s): 6247206-6247208									
Aluminum	5.03	U	5.03	20.0	mg/kg	98		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	88		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	100		88-110		
Iron	4.95	J	4.71	20.0	mg/kg	100		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	101		89-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phosphorus	1.16	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		86-110		
Tin	1.99	J	1.00	10.0	mg/kg	98		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	110		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	104		80-120		
Batch number: 110945711002	Sample number(s): 6247206-6247208									
Mercury	0.0028	U	0.0028	0.0981	mg/kg	96		88-123		
Batch number: 110971026001A	Sample number(s): 6247206-6247208									
Vanadium	0.0220	U	0.0220	0.100	mg/kg	113		87-117		
Batch number: 11101101201A	Sample number(s): 6247206-6247208									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11102102201B	Sample number(s): 6247206-6247208									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11105105201A	Sample number(s): 6247206-6247208									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	100		90-110		
Batch number: 11107243201A	Sample number(s): 6247206-6247208									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	98		80-120		
Batch number: 11094039402A	Sample number(s): 6247206-6247208									
18a pH by 9045C						100		95-105		
Batch number: 11094182102A	Sample number(s): 6247206-6247208									
32a OR Potential						99		98-102		
Batch number: 11109162401A	Sample number(s): 6247206-6247208									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11098SLB026	Sample number(s): 6247206-6247208 UNSPK: P244296								
N-Nitrosodimethylamine	71	75	70-130	6	30				
Batch number: 11101SLB026	Sample number(s): 6247206-6247208 UNSPK: P245566								
Acenaphthene	93	96	63-105	3	30				
Acenaphthylene	103	107	67-114	4	30				
Anthracene	102	108	60-122	6	30				
Benzo(a)anthracene	106	112	59-128	5	30				
Benzo(a)pyrene	76	80	45-138	5	30				
Benzo(b)fluoranthene	93	100	43-155	8	30				
Benzo(g,h,i)perylene	40	37	33-141	7	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(k)fluoranthene	80	88	42-144	9	30				
Butylbenzylphthalate	123	130	57-173	5	30				
Di-n-butylphthalate	83	90	65-148	6	30				
Chrysene	99	105	48-134	6	30				
Dibenz(a,h)anthracene	50	47	22-133	5	30				
Diethylphthalate	80	85	70-136	5	30				
Dimethylphthalate	104	108	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	108	115	39-167	5	30				
Fluoranthene	111	118	26-166	6	30				
Fluorene	100	103	66-122	3	30				
Indeno(1,2,3-cd)pyrene	48	46	21-143	5	30				
1-Methylnaphthalene	93	98	72-123	5	30				
2-Methylnaphthalene	85	88	64-103	4	30				
Naphthalene	90	94	61-102	4	30				
N-Nitrosodimethylamine	93	93	48-113	0	30				
Di-n-octylphthalate	117	132	40-192	12	30				
Phenanthrene	90	96	12-165	6	30				
Pyrene	97	105	15-153	8	30				
Batch number: 11102SLH026	Sample number(s): 6247206-6247208 UNSPK: P245566								
Aniline	69	55	35-95	23	30				
Benzidine	27*	21*	35-141	27	30				
Benzoic acid	52	49	10-173	5	30				
Benzyl alcohol	92	85	67-115	8	30				
4-Bromophenyl-phenylether	104	98	67-129	6	30				
Carbazole	94	90	64-120	4	30				
4-Chloro-3-methylphenol	92	83	76-110	10	30				
4-Chloroaniline	38	33	23-95	14	30				
bis(2-Chloroethoxy)methane	100	94	75-104	6	30				
bis(2-Chloroethyl)ether	96	90	60-116	6	30				
bis(2-Chloroisopropyl)ether	90	85	55-142	5	30				
2-Chloronaphthalene	90	85	50-141	6	30				
2-Chlorophenol	94	88	73-121	7	30				
4-Chlorophenyl-phenylether	94	86	80-109	8	30				
Dibenzofuran	95	89	71-112	7	30				
1,2-Dichlorobenzene	89	83	66-108	7	30				
1,3-Dichlorobenzene	89	86	63-109	4	30				
1,4-Dichlorobenzene	88	83	70-100	6	30				
3,3'-Dichlorobenzidine	78	69	16-119	12	30				
2,4-Dichlorophenol	96	89	78-117	8	30				
2,4-Dimethylphenol	98	92	78-110	7	30				
3,5-Dimethylphenol	93	86	70-130	7	30				
4,6-Dinitro-2-methylphenol	81	61	24-116	27	30				
2,4-Dinitrophenol	57	40	20-143	36*	30				
2,4-Dinitrotoluene	93	84	73-113	9	30				
2,6-Dinitrotoluene	94	87	69-123	7	30				
1,2-Diphenylhydrazine	118	114	71-129	4	30				
Hexachlorobenzene	100	93	77-114	8	30				
Hexachlorobutadiene	101	93	62-120	8	30				
Hexachlorocyclopentadiene	41	28	10-153	40*	30				
Hexachloroethane	85	76	57-109	12	30				
Isophorone	99	93	73-102	6	30				
2-Methylphenol	88	83	75-111	7	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Methylphenol	86	79	71-111	9	30				
2-Nitroaniline	100	94	67-125	6	30				
3-Nitroaniline	92	85	59-122	8	30				
4-Nitroaniline	77	68	52-112	12	30				
Nitrobenzene	104	98	72-106	6	30				
2-Nitrophenol	98	92	74-115	6	30				
4-Nitrophenol	86	76	54-113	13	30				
N-Nitroso-di-n-propylamine	93	89	60-116	4	30				
N-Nitrosodiphenylamine	108	105	86-145	3	30				
Pentachlorophenol	87	81	28-127	8	30				
Phenol	86	81	58-126	6	30				
1,2,4-Trichlorobenzene	98	93	72-115	5	30				
2,4,5-Trichlorophenol	98	89	78-109	10	30				
2,4,6-Trichlorophenol	108	99	77-115	9	30				
Batch number: 11087A34B	Sample number(s): 6247206-6247208 UNSPK: P239176								
9a TPH by EPA 8015B Gas C5-C12	69	70	39-118	1	30				
Batch number: 111010012A	Sample number(s): 6247206-6247208 UNSPK: P245566								
4-Amino-2,6-Dinitrotoluene	109	109	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	110	110	80-137	1	50				
1,3-Dinitrobenzene	108	108	38-166	0	50				
2,4-Dinitrotoluene	106	106	80-131	0	50				
2,6-Dinitrotoluene	106	108	80-127	1	50				
HMX	98	99	63-128	1	50				
Nitrobenzene	104	103	80-125	1	50				
Nitroglycerin	95	96	80-120	0	50				
2-Nitrotoluene	104	106	80-122	1	50				
3-Nitrotoluene	108	109	72-119	1	50				
4-Nitrotoluene	106	106	80-125	0	50				
PETN	115	116	80-121	0	50				
RDX	93	93	75-129	0	50				
Tetryl	84	87	55-174	3	50				
1,3,5-Trinitrobenzene	108	108	82-126	1	50				
2,4,6-Trinitrotoluene	109	110	82-130	1	50				
Batch number: 110940004A	Sample number(s): 6247206-6247208 UNSPK: P244296								
25a Formaldehyde 8315A	93	89	80-120	5	50				
Batch number: 111030013A	Sample number(s): 6247206-6247208 UNSPK: P245566								
PCB-1016	76	67	29-146	13	50				
PCB-1260	85	75	39-149	12	50				
Batch number: 111020021A	Sample number(s): 6247206-6247208 UNSPK: P244296								
EFH (C12-C14)	110	113	49-123	3	20				
EFH (C15-C20)	141*	138*	49-123	2	20				
EFH (C21-C30)	-15099 (2)	-15219 (2)	49-123	51*	20				
EFH (C30 - C40)	-54757 (2)	-54829 (2)	49-123	75*	20				
EFH (C8-C11)	141*	154*	49-123	9	20				
Batch number: 110950026A	Sample number(s): 6247206-6247208 UNSPK: 6247206								

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethanol	79	84	48-130	6	20				
Isopropanol	86	87	12-149	1	20				
Methanol	76	84	43-138	9	20				
Batch number: 111020001A	Sample number(s): 6247206-6247208 UNSPK: P245570								
Diethylene glycol	82	88	59-109	7	20				
Ethylene glycol	80	83	63-107	3	20				
Propylene glycol	91	92	63-107	1	20				
Batch number: 111020016A	Sample number(s): 6247206-6247208 UNSPK: P244296								
m-Terphenyl	73*	77	75-125	6	20				
o-Terphenyl	87	89	75-125	2	20				
p-Terphenyl	76	77	75-125	2	20				
Batch number: 110941026001A	Sample number(s): 6247206-6247208 UNSPK: P244296 BKG: P244296								
Antimony	17*	47*	75-125	20	20	1.39	1.11	23*	20
Arsenic	150*	140*	75-125	3	20	4.43	4.88	10	20
Beryllium	110	113	75-125	1	20	0.515	0.566	10	20
Cadmium	98	116	75-125	9	20	0.680	0.751	10	20
Chromium	65*	170*	75-125	26*	20	27.4	27.9	2	20
Cobalt	118	115	75-125	4	20	5.86	6.54	11	20
Copper	-10 (2)	228 (2)	75-125	45*	20	40.9	45.2	10	20
Lead	-109 (2)	136 (2)	75-125	9	20	75.9	78.7	4	20
Nickel	113	120	75-125	1	20	19.6	18.3	7	20
Silver	120	116	75-125	5	20	1.55	1.09	35*	20
Thallium	119	117	75-125	3	20	0.237	0.238	0 (1)	20
Zinc	-4 (2)	243 (2)	75-125	16	20	138	148	7	20
Batch number: 110941026001B	Sample number(s): 6247206-6247208 UNSPK: P244296 BKG: P244296								
Selenium	108	117	75-125	6	20	0.170 J	0.142 J	18 (1)	20
Batch number: 110941026001C	Sample number(s): 6247206-6247208 UNSPK: P244296 BKG: P244296								
Molybdenum	129*	132*	75-125	0	20	1.24	1.40	12	20
Batch number: 110941026001D	Sample number(s): 6247206-6247208 UNSPK: P244296 BKG: P244296								
Barium	5 (2)	8 (2)	75-125	0	20	128	124	3	20
Batch number: 110945708002	Sample number(s): 6247206-6247208 UNSPK: P244296 BKG: P244296								
Aluminum	1171 (2)	941 (2)	75-125	3	20	13,500	13,200	2	20
Boron	96	95	84-115	0	20	5.24	5.66	8 (1)	20
Calcium	52 (2)	1050 (2)	75-125	62*	20	4,190	4,670	11	20
Iron	181 (2)	2560 (2)	75-125	10	20	21,600	21,900	1	20
Lithium	104	103	82-114	0	20	22.2	23.1	4	20
Magnesium	113 (2)	175 (2)	75-125	3	20	4,300	4,340	1	20
Manganese	28 (2)	-80 (2)	75-125	14	20	396	302	27*	20
Phosphorus	91	119	75-125	6	20	357	371	4	20
Potassium	118	112	75-125	1	20	3,180	3,250	2	20
Sodium	101	104	75-125	3	20	95.0 J	85.6 J	10 (1)	20
Strontium	101	107	75-115	6	20	18.7	21.1	12	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Tin	95	96	80-110	2	20	3.62	J	141		190* (1)	20
Titanium	209 (2)	176 (2)	75-125	2	20	1,220		1,200		2	20
Zirconium	99	100	75-125	2	20	4.13	J	4.21	J	2 (1)	20
Batch number: 110945711002	Sample number(s): 6247206-6247208 UNSPK: P244296 BKG: P244296										
Mercury	95	94	65-135	3	20	0.0052	J	0.0028	U	200* (1)	20
Batch number: 110971026001A	Sample number(s): 6247206-6247208 UNSPK: P244296 BKG: P244296										
Vanadium	149*	166*	75-125	3	20	29.0		33.7		15	20
Batch number: 11101101201A	Sample number(s): 6247206-6247208 UNSPK: 6247206 BKG: 6247206										
7a Perchlorate EPA 314.0	97		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11102102201B	Sample number(s): 6247206-6247208 UNSPK: P245570 BKG: P245570										
17a Cyanide by 9012B	115		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11105105201A	Sample number(s): 6247206-6247208 UNSPK: P245566 BKG: P245566										
11a Anions by 300.0 - Fluoride	85		80-120			1.4		1.4		0 (1)	20
11a Anions by 300.0 - Nitrate	121*		80-120			11.0		11.5		4	20
Batch number: 11107243201A	Sample number(s): 6247206-6247208 UNSPK: P245568 BKG: P245568										
3a Cr VI by EPA 7199	92		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11094039402A	Sample number(s): 6247206-6247208 BKG: 6247208										
18a pH by 9045C						6.37		6.32		1	1
Batch number: 11094182102A	Sample number(s): 6247206-6247208 BKG: 6247208										
32a OR Potential						491		499		2	6
Batch number: 11109162401A	Sample number(s): 6247206-6247208 BKG: P251858										
Moisture Content by 160.3						11.5		11.6		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110951AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6247206	101	102	100	93
6247207	98	99	100	91
6247208	97	103	98	93
Blank	97	102	98	92
LCS	98	99	102	96
LCSD	99	102	101	98
Limits:	80-120	80-120	81-117	74-121

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Surrogate Quality Control

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110941AA

	Toluene-d8
6247209	99
Blank	99
LCS	99
LCSD	99
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110942AA

	Toluene-d8
6247206	98
6247207	98
6247208	98
Blank	97
LCS	97
LCSD	99
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110952AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6247209	108	103	100	95
Blank	108	103	100	93
LCS	107	103	101	99
LCSD	107	105	100	98
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11098SLB026

	N-Nitrosodimethylamine-d6
6247206	100
6247207	133
6247208	85
Blank	99
LCS	108
MS	115
MSD	112
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11101SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6247206	83	79	93
6247207	94	89	88
6247208	90	83	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Surrogate Quality Control

Blank	95	90	102
LCS	97	89	97
MS	95	88	103
MSD	97	91	109
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11102SLH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6247206	87	91	78	95	96	83
6247207	89	96	80	100	97	84
6247208	89	95	78	96	96	86
Blank	95	100	91	99	95	82
LCS	92	97	91	97	93	89
MS	93	100	90	103	103	89
MSD	93	100	84	104	104	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11087A34B

	Trifluorotoluene-F
6247206	83
6247207	78
6247208	74
Blank	98
LCS	85
MS	78
MSD	78
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11098A20A

	Trifluorotoluene-F
6247209	84
Blank	82
LCS	116
LCSD	118
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110940004A

	Butyraldehyde
6247206	81
6247207	70
6247208	89
Blank	84
LCS	93
MS	95
MSD	93

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Surrogate Quality Control

Limits: 64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111010012A

	2-Nitro-m-xylene
6247206	144
6247207	136
6247208	134
Blank	132
LCS	136
LCSD	133
MS	130
MSD	126

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111030013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6247206	63	85
6247207	81	93
6247208	79	95
Blank	90	108
LCS	80	103
LCSD	76	96
MS	79	66
MSD	73	65

Limits: 53-139 45-120

Analysis Name: 19a Alcohols by 8015B
Batch number: 110950026A

	Acetone
6247206	77
6247207	67
6247208	72
Blank	84
LCS	84
MS	76
MSD	76

Limits: 42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111020001A

	Tetramethylene glycol
6247206	79
6247207	61
6247208	74
Blank	149*
LCS	156*
MS	87

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240242
Reported: 04/28/11 at 04:13 PM

Surrogate Quality Control

MSD	83
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111020016A

	n-Triacontane-d62
6247206	73
6247207	62
6247208	68
Blank	85
LCS	84
MS	85
MSD	71
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111020021A

	Chlorobenzene	Orthoterphenyl
6247206	86	86
6247207	83	87
6247208	81	87
Blank	83	87
LCS	121	89
MS	84	89
MSD	86	90
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap# 1240242 sample# 6247206-09

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesel/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tephenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: NBegay																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-076-SA5A-SB-4.5	04.01.11	1050	SOIL	NONE	5-Encores										X	X	X										
SL-076-SA5A-SB-4.0-5.0	04.01.11	1055	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-072-SA5A-SB-4.5	04.01.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-072-SA5A-SB-4.0-5.0	04.01.11	1155	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-071-SA5A-SB-4.5	04.01.11	1250	SOIL	NONE	5-Encores										X	X	X										
SL-071-SA5A-SB-4.0-5.0	04.01.11	1255	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-043011	04.01.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/01/2011 / 1700		Received for Laboratory by: (Signature) JCOm 4/2/11 0915																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8700 5935 4237																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 29, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/02/2011
Group Number: 1240243
SDG: DX066
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-076-SA5A-SB-4.0-5.0 Soil	6247210
SL-072-SA5A-SB-4.0-5.0 Soil	6247211
SL-071-SA5A-SB-4.0-5.0 Soil	6247212

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SB-4.0-5.0

LLI Sample # SW 6247210
LLI Group # 1240243
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 10:55

Submitted: 04/02/2011 09:15
Reported: 04/29/2011 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6606 SDG#: DX066-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-076-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SB-4.0-5.0

LLI Sample # SW 6247210
LLI Group # 1240243
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 10:55

Submitted: 04/02/2011 09:15
Reported: 04/29/2011 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6606 SDG#: DX066-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0203 JB	0.0183	1.04	1
11031	12378-PeCDD	40321-76-4	0.0508 JBQ	0.0161	5.21	1
11031	123478-HxCDD	39227-28-6	0.0575 JBQ	0.0280	5.21	1
11031	123678-HxCDD	57653-85-7	0.324 JB	0.0261	5.21	1
11031	123789-HxCDD	19408-74-3	0.183 JBQ	0.0237	5.21	1
11031	1234678-HpCDD	35822-46-9	9.73 B	0.0597	5.21	1
11031	OCDD	3268-87-9	308 B	0.0961	10.4	1
11031	2378-TCDF	51207-31-9	0.0198 JBQ	0.0145	1.04	1
11031	12378-PeCDF	57117-41-6	0.0425 JB	0.00873	5.21	1
11031	23478-PeCDF	57117-31-4	0.0564 JB	0.00841	5.21	1
11031	123478-HxCDF	70648-26-9	0.108 JB	0.0273	5.21	1
11031	123678-HxCDF	57117-44-9	0.0529 JB	0.0193	5.21	1
11031	123789-HxCDF	72918-21-9	0.0850 JB	0.0166	5.21	1
11031	234678-HxCDF	60851-34-5	0.0641 JB	0.0121	5.21	1
11031	1234678-HpCDF	67562-39-4	0.666 JBQ	0.0344	5.21	1
11031	1234789-HpCDF	55673-89-7	0.0759 JB	0.0285	5.21	1
11031	OCDF	39001-02-0	2.63 JB	0.0432	10.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-076-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SB-4.0-5.0

LLI Sample # SW 6247210
LLI Group # 1240243
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 10:55

Submitted: 04/02/2011 09:15
Reported: 04/29/2011 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6606 SDG#: DX066-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-076-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5A-SB-4.0-5.0

LLI Sample # SW 6247210
LLI Group # 1240243
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 10:55

Submitted: 04/02/2011 09:15
Reported: 04/29/2011 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6606 SDG#: DX066-06

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 6.1-11.9 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11111001	04/25/2011 15:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11111001	04/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-072-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SB-4.0-5.0

LLI Sample # SW 6247211
LLI Group # 1240243
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 11:55

Submitted: 04/02/2011 09:15
Reported: 04/29/2011 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6607 SDG#: DX066-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SB-4.0-5.0

LLI Sample # SW 6247211
LLI Group # 1240243
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 11:55

Submitted: 04/02/2011 09:15
Reported: 04/29/2011 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6607 SDG#: DX066-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0270 U	0.0270	1.14	1
11031	12378-PeCDD	40321-76-4	0.0661 JBQ	0.0320	5.71	1
11031	123478-HxCDD	39227-28-6	0.0346 U	0.0346	5.71	1
11031	123678-HxCDD	57653-85-7	0.186 JB	0.0353	5.71	1
11031	123789-HxCDD	19408-74-3	0.307 JB	0.0333	5.71	1
11031	1234678-HpCDD	35822-46-9	0.413 JB	0.0410	5.71	1
11031	OCDD	3268-87-9	1.59 JB	0.0544	11.4	1
11031	2378-TCDF	51207-31-9	0.0255 JQ	0.0239	1.14	1
11031	12378-PeCDF	57117-41-6	0.0652 JBQ	0.0131	5.71	1
11031	23478-PeCDF	57117-31-4	0.0576 JBQ	0.0144	5.71	1
11031	123478-HxCDF	70648-26-9	0.0732 JB	0.0324	5.71	1
11031	123678-HxCDF	57117-44-9	0.0648 JB	0.0252	5.71	1
11031	123789-HxCDF	72918-21-9	0.284 JB	0.0319	5.71	1
11031	234678-HxCDF	60851-34-5	0.0597 JBQ	0.0223	5.71	1
11031	1234678-HpCDF	67562-39-4	0.177 JB	0.0954	5.71	1
11031	1234789-HpCDF	55673-89-7	0.260 JBQ	0.156	5.71	1
11031	OCDF	39001-02-0	0.396 JBQ	0.179	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SB-4.0-5.0

LLI Sample # SW 6247211
LLI Group # 1240243
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 11:55

Submitted: 04/02/2011 09:15
Reported: 04/29/2011 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6607 SDG#: DX066-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-072-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5A-SB-4.0-5.0

LLI Sample # SW 6247211
LLI Group # 1240243
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 11:55

Submitted: 04/02/2011 09:15
Reported: 04/29/2011 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6607 SDG#: DX066-07

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 6.1-11.9 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105001	04/18/2011 17:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11105001	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5A-SB-4.0-5.0

LLI Sample # SW 6247212
LLI Group # 1240243
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 12:55

Submitted: 04/02/2011 09:15
Reported: 04/29/2011 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6608 SDG#: DX066-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5A-SB-4.0-5.0

LLI Sample # SW 6247212
LLI Group # 1240243
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 12:55

Submitted: 04/02/2011 09:15
Reported: 04/29/2011 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6608 SDG#: DX066-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0208	U	0.0208	1.08	1
11031	12378-PeCDD	40321-76-4	0.0241	U	0.0241	5.41	1
11031	123478-HxCDD	39227-28-6	0.0394	JQ	0.0236	5.41	1
11031	123678-HxCDD	57653-85-7	0.0679	JBQ	0.0241	5.41	1
11031	123789-HxCDD	19408-74-3	0.107	JB	0.0205	5.41	1
11031	1234678-HpCDD	35822-46-9	0.560	JB	0.0240	5.41	1
11031	OCDD	3268-87-9	4.08	JB	0.0397	10.8	1
11031	2378-TCDF	51207-31-9	0.0162	U	0.0162	1.08	1
11031	12378-PeCDF	57117-41-6	0.0324	JBQ	0.00952	5.41	1
11031	23478-PeCDF	57117-31-4	0.0495	JBQ	0.0115	5.41	1
11031	123478-HxCDF	70648-26-9	0.0571	JB	0.0179	5.41	1
11031	123678-HxCDF	57117-44-9	0.0396	JBQ	0.0138	5.41	1
11031	123789-HxCDF	72918-21-9	0.0803	JBQ	0.0181	5.41	1
11031	234678-HxCDF	60851-34-5	0.0760	JBQ	0.0159	5.41	1
11031	1234678-HpCDF	67562-39-4	0.193	JBQ	0.0437	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0997	U	0.0997	5.41	1
11031	OCDF	39001-02-0	0.240	JB	0.0972	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5A-SB-4.0-5.0

LLI Sample # SW 6247212
LLI Group # 1240243
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 12:55

Submitted: 04/02/2011 09:15
Reported: 04/29/2011 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6608 SDG#: DX066-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5A-SB-4.0-5.0

LLI Sample # SW 6247212
LLI Group # 1240243
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/01/2011 12:55

Submitted: 04/02/2011 09:15
Reported: 04/29/2011 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6608 SDG#: DX066-08

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 6.1-11.9 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105001	04/18/2011 18:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11105001	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240243
Reported: 04/29/11 at 11:30 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11109162401A	Sample number(s): 6247210-6247212								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11105001	Sample number(s): 6247211-6247212								
2378-TCDD	0.0188 U	0.0188	1.00	ng/kg	90		67-158		
12378-PeCDD	0.0338 J	0.0193	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0154 U	0.0154	5.00	ng/kg	93		70-164		
123678-HxCDD	0.0256 J	0.0164	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0539 J	0.0154	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.347 J	0.0204	5.00	ng/kg	92		70-140		
OCDD	0.581 J	0.0180	10.0	ng/kg	91		78-144		
2378-TCDF	0.0204 U	0.0204	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0319 J	0.00940	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0552 J	0.0105	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0467 J	0.0140	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0341 J	0.0107	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0443 J	0.0163	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0734 J	0.0120	5.00	ng/kg	90		70-156		
1234678-HpCDF	0.160 J	0.00650	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.108 J	0.0135	5.00	ng/kg	92		78-138		
OCDF	0.263 J	0.0245	10.0	ng/kg	90		63-170		
Batch number: 11111001	Sample number(s): 6247210								
2378-TCDD	0.0407 J	0.0150	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0378 J	0.0115	5.00	ng/kg	108		70-142		
123478-HxCDD	0.0291 J	0.0102	5.00	ng/kg	107		70-164		
123678-HxCDD	0.0354 J	0.0100	5.00	ng/kg	107		76-134		
123789-HxCDD	0.0670 J	0.00980	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.214 J	0.0159	5.00	ng/kg	106		70-140		
OCDD	0.583 J	0.0220	10.0	ng/kg	107		78-144		
2378-TCDF	0.0156 J	0.0116	1.00	ng/kg	121		75-158		
12378-PeCDF	0.0460 J	0.00670	5.00	ng/kg	105		80-134		
23478-PeCDF	0.0785 J	0.00700	5.00	ng/kg	106		68-160		
123478-HxCDF	0.0546 J	0.0159	5.00	ng/kg	108		72-134		
123678-HxCDF	0.0424 J	0.0103	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0880 J	0.0135	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0497 J	0.00810	5.00	ng/kg	109		70-156		
1234678-HpCDF	0.123 J	0.0112	5.00	ng/kg	105		82-122		
1234789-HpCDF	0.0603 J	0.0157	5.00	ng/kg	108		78-138		
OCDF	0.155 J	0.0232	10.0	ng/kg	110		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240243
Reported: 04/29/11 at 11:30 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11109162401A	Sample number(s): 6247210-6247212					BKG: P251858			
Moisture Content by 160.3						11.5	11.6	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11105001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6247211	67	66	44	57	61	51
6247212	66	59	51	66	58	58
Blank	71	59	58	73	62	53
OPR	66	57	53	68	59	50
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6247211	76	53	45	82	74	67
6247212	92	49	41	78	69	70
Blank	91	50	49	90	71	78
OPR	84	47	46	87	67	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6247211	68	73	72	70	63	79
6247212	70	80	77	68	60	77
Blank	75	79	77	75	61	71
OPR	71	72	72	70	59	67
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11111001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6247210	64	73	34	46	76	61
Blank	70	71	40	60	75	51
OPR	63	63	27	45	66	47
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240243
Reported: 04/29/11 at 11:30 AM

Surrogate Quality Control

(CRS)

6247210	48	69	63	81	77	67
Blank	68	56	49	99	83	80
OPR	53	48	41	87	75	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6247210	74	77	74	71	66	75
Blank	83	84	79	72	66	83
OPR	75	77	75	67	57	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1240243 sample#6247210-12

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: NBegay

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260Sim $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Metals EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-076-SA5A-SB-4.5	04.01.11	1050	SOIL	NONE	5-Encores										X	X	X										
SL-076-SA5A-SB-4.0-5.0	04.01.11	1055	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-072-SA5A-SB-4.5	04.01.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-072-SA5A-SB-4.0-5.0	04.01.11	1155	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-071-SA5A-SB-4.5	04.01.11	1250	SOIL	NONE	5-Encores										X	X	X										
SL-071-SA5A-SB-4.0-5.0	04.01.11	1255	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-040111	04.01.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/01/2011 / 1700 — Received for Laboratory by: (Signature) 4/2/11 0715

Received by: (Signature) — Date/Time — Airbill No.(s): 8700 5935 4237

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/05/2011
Group Number: 1240432
SDG: DE118
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-085-SA5A-SB-4.0-5.0 Soil	6248206
SL-087-SA5A-SB-2.0-3.0 Soil	6248207
TB-040411 Water	6248208

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

REVISED

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Max E. Snavely
Senior Specialist

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-085-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5A-SB-4.0-5.0

LLI Sample # SW 6248206
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 09:54

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE118-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	8.1	J	7.1	8.5	0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.2	0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2	0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2	0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.2	0.95
06192	Bromoform	75-25-2	0.42	U	0.42	4.2	0.95
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2	0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5	0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2	0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2	0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2	0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2	0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2	0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2	0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2	0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.2	0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2	0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2	0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2	0.95
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3	0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2	0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2	0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2	0.95
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2	0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2	0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2	0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2	0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2	0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2	0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2	0.95
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2	0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2	0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2	0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2	0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.2	0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2	0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2	0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2	0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2	0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2	0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.2	0.95
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3	0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2	0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5	0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2	0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2	0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2	0.95
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5	0.95
06192	Methylene Chloride	75-09-2	6.6		0.25	4.2	0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2	0.95

*=This limit was used in the evaluation of the final result

Sample Description: SL-085-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5A-SB-4.0-5.0

LLI Sample # SW 6248206
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 09:54

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE118-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2	0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2	0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2	0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2	0.95
06192	Toluene	108-88-3	0.09	U	0.09	4.2	0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2	0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2	0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2	0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2	0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2	0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2	0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2	0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2	0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2	0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2	0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2	0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2	0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14	21.19
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-085-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5A-SB-4.0-5.0

LLI Sample # SW 6248206
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 09:54

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE118-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	11	J	6.7	20	1
10138	Chrysene	218-01-9	0.49	J	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	9.1	J	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-085-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5A-SB-4.0-5.0

LLI Sample # SW 6248206
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 09:54

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE118-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,400		5.53	22.0	1
07914	Boron	7440-42-8	0.979	U	0.979	5.50	1
01650	Calcium	7440-70-2	2,630		6.75	22.0	1
01654	Iron	7439-89-6	24,300		5.18	22.0	1
01656	Lithium	7439-93-2	26.3		0.24	2.2	1
01657	Magnesium	7439-95-4	5,370		2.79	11.0	1
06958	Manganese	7439-96-5	244		0.0858	0.550	1
10145	Phosphorus	7723-14-0	167		0.616	11.0	1
01662	Potassium	7440-09-7	1,300		19.8	55.0	1
01667	Sodium	7440-23-5	117		41.0	110	1
07968	Strontium	7440-24-6	23.7		0.0682	0.550	1
06969	Tin	7440-31-5	3.23	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,310		0.418	1.10	1
10146	Zirconium	7440-67-7	4.47	J	0.924	5.50	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.205	J	0.0673	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.21		0.0898	0.449	2
06126	Barium	7440-39-3	100		0.121	0.449	2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.						
06127	Beryllium	7440-41-7	1.07		0.0180	0.112	2
06128	Cadmium	7440-43-9	0.0883	J	0.0449	0.112	2
06131	Chromium	7440-47-3	23.2		0.135	0.449	2
06132	Cobalt	7440-48-4	7.25		0.0224	0.112	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-085-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5A-SB-4.0-5.0

LLI Sample # SW 6248206
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 09:54

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE118-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	8.80		0.0741	0.449	2
06135	Lead	7439-92-1	7.99		0.0117	0.224	2
06138	Molybdenum	7439-98-7	1.06		0.0561	0.112	2
06139	Nickel	7440-02-0	16.7		0.112	0.449	2
06141	Selenium	7782-49-2	0.117	J	0.0449	0.449	2
06142	Silver	7440-22-4	0.0733	J	0.0135	0.112	2
06145	Thallium	7440-28-0	0.235		0.0337	0.112	2
06148	Vanadium	7440-62-2	46.0		0.0247	0.112	2
06149	Zinc	7440-66-6	53.3		0.629	3.37	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	272		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.33		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-085-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-085-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5A-SB-4.0-5.0

LLI Sample # SW 6248206
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 09:54

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE118-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110972AA	04/07/2011 16:25	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110982AA	04/08/2011 21:33	Sara E Johnson	21.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109524014	04/05/2011 18:01	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109524014	04/05/2011 18:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109524014	04/05/2011 18:10	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109524014	04/05/2011 17:59	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 13:20	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11101SLB026	04/12/2011 20:40	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11101SLB026	04/11/2011 18:45	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 05:56	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 07:56	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 07:56	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 07:56	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 17:05	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 07:56	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 07:56	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 07:56	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 07:56	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 07:56	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 07:56	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 07:56	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 07:56	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 07:56	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 07:56	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 09:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 09:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 09:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:24	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: **SL-085-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5A-SB-4.0-5.0

LLI Sample # SW 6248206
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 09:54

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE118-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201A	04/16/2011 11:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201A	04/26/2011 10:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11107243201A	04/19/2011 03:58	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201A	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201A	04/11/2011 13:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11101182103A	04/11/2011 14:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11101039401A	04/11/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401B	04/11/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: **SL-087-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SB-2.0-3.0

LLI Sample # SW 6248207
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 10:56

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE118-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.6	U	6.6	7.9	0.91
06192	Benzene	71-43-2	0.1	U	0.1	4.0	0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0	0.91
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0	0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0	0.91
06192	Bromoform	75-25-2	0.40	U	0.40	4.0	0.91
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0	0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9	0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0	0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0	0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0	0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0	0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0	0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0	0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0	0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.0	0.91
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0	0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0	0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0	0.91
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0	0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0	0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0	0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0	0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0	0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0	0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0	0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0	0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0	0.91
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0	0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0	0.91
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0	0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0	0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0	0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0	0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0	0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0	0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0	0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0	0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0	0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0	0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.0	0.91
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0	0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0	0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9	0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0	0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0	0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0	0.91
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9	0.91
06192	Methylene Chloride	75-09-2	1.3	J	0.24	4.0	0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0	0.91

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SB-2.0-3.0

LLI Sample # SW 6248207
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 10:56

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE118-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0	0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0	0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0	0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0	0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.0	0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0	0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0	0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0	0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0	0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0	0.91
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0	0.91
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0	0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0	0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0	0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0	0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0	0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0	0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14	21.59
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SB-2.0-3.0

LLI Sample # SW 6248207
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 10:56

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE118-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	11	J	6.5	20	1
10138	Chrysene	218-01-9	2.1		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	9.1	J	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.5	20	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SB-2.0-3.0

LLI Sample # SW 6248207
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 10:56

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE118-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	J	6.5	20	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		5.41	21.5	1
07914	Boron	7440-42-8	0.958	U	0.958	5.38	1
01650	Calcium	7440-70-2	2,920		6.60	21.5	1
01654	Iron	7439-89-6	22,100		5.07	21.5	1
01656	Lithium	7439-93-2	22.7		0.24	2.2	1
01657	Magnesium	7439-95-4	5,300		2.73	10.8	1
06958	Manganese	7439-96-5	229		0.0839	0.538	1
10145	Phosphorus	7723-14-0	363		0.603	10.8	1
01662	Potassium	7440-09-7	1,570		19.4	53.8	1
01667	Sodium	7440-23-5	122		40.1	108	1
07968	Strontium	7440-24-6	15.8		0.0667	0.538	1
06969	Tin	7440-31-5	2.93	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,280		0.409	1.08	1
10146	Zirconium	7440-67-7	1.95	J	0.904	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.393		0.0633	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.10		0.0844	0.422	2
06126	Barium	7440-39-3	86.8		0.114	0.422	2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.						
06127	Beryllium	7440-41-7	0.825		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.0914	J	0.0422	0.106	2
06131	Chromium	7440-47-3	25.0		0.127	0.422	2
06132	Cobalt	7440-48-4	14.5		0.0211	0.106	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SB-2.0-3.0

LLI Sample # SW 6248207
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 10:56

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE118-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	15.9	0.0696	0.422	2
06135	Lead	7439-92-1	8.10	0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.519	0.0528	0.106	2
06139	Nickel	7440-02-0	16.0	0.106	0.422	2
06141	Selenium	7782-49-2	0.135 J	0.0422	0.422	2
06142	Silver	7440-22-4	0.0127 U	0.0127	0.106	2
06145	Thallium	7440-28-0	0.411	0.0317	0.106	2
06148	Vanadium	7440-62-2	45.9	0.0232	0.106	2
06149	Zinc	7440-66-6	74.4	0.591	3.17	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5	0.87	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	282	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.50	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-087-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SB-2.0-3.0

LLI Sample # SW 6248207
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 10:56

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE118-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110972AA	04/07/2011 16:47	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110982AA	04/08/2011 21:53	Sara E Johnson	21.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109524014	04/05/2011 18:06	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109524014	04/05/2011 18:11	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109524014	04/05/2011 18:11	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109524014	04/05/2011 18:03	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 13:44	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11101SLB026	04/12/2011 21:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11101SLB026	04/11/2011 18:45	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 06:15	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 08:07	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 08:07	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 08:07	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 17:15	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 08:07	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 08:07	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 08:07	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 08:07	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 08:07	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 08:07	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 08:07	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 08:07	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 08:07	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 08:07	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 09:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 09:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 09:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:25	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: **SL-087-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5A-SB-2.0-3.0

LLI Sample # SW 6248207
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 10:56

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE118-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201A	04/16/2011 11:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201A	04/25/2011 20:56	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11107243201A	04/19/2011 04:23	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201A	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201A	04/11/2011 13:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11101182103B	04/11/2011 14:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11101039401A	04/11/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401B	04/11/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: TB-040411 Water
SSFL Area IV Collocated Soil Sampling
TB-040411

LLI Sample # WW 6248208
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 08:00

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB404 SDG#: DE118-03TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: TB-040411 Water
SSFL Area IV Collocated Soil Sampling
TB-040411

LLI Sample # WW 6248208
LLI Group # 1240432
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2011 08:00

Submitted: 04/05/2011 10:00
Reported: 05/18/2011 11:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB404 SDG#: DE118-03TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110952AA	04/05/2011 19:56	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110981AA	04/08/2011 15:44	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110952AA	04/05/2011 19:56	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110981AA	04/08/2011 15:44	Sara E Johnson	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240432
Reported: 05/18/11 at 11:52 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110972AA	Sample number(s): 6248206-6248207									
Acetone	6.7	U	6.7	8.0	ug/kg	130	130	32-209	1	30
Benzene	0.10	U	0.10	4.0	ug/kg	110	108	80-120	2	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	105	104	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	121	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	96	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	86	87	70-120	2	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	92	87	32-162	6	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	108	113	46-153	4	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	116	110	72-120	5	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	118	114	75-120	4	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	107	103	75-120	4	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	98	95	69-122	4	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102	100	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	93	88	37-154	5	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	73	76	43-146	4	30
Chloroform	0.12	U	0.12	4.0	ug/kg	104	103	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	100	95	54-132	4	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	107	105	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	107	104	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	69	69	22-131	0	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	90	95	58-120	6	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	92	93	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99	101	80-120	3	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99	100	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	102	100	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	103	103	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	104	102	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	86	82	20-120	5	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	106	105	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	100	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	116	110	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105	103	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106	103	79-120	3	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	105	104	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	101	101	80-120	0	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92	92	72-123	0	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	101	77-120	3	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	96	96	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	90	91	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104	102	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	121	113	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	101	101	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	102	98	57-120	4	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	103	109	45-155	6	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	106	102	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	114	109	75-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240432
Reported: 05/18/11 at 11:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	93	95	74-121	2	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	94	99	61-134	5	30
Methylene Chloride	0.52	J	0.24	4.0	ug/kg	112	111	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	117	114	77-120	3	30
Styrene	0.10	U	0.10	4.0	ug/kg	96	95	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	95	95	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103	106	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100	97	77-120	2	30
Toluene	0.09	J	0.08	4.0	ug/kg	105	103	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	94	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	92	90	68-120	2	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101	97	71-125	4	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	99	100	80-120	0	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	103	100	80-120	4	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	106	99	58-133	7	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101	105	71-123	4	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	111	107	79-120	4	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	113	108	78-120	4	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	98	93	53-120	5	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103	100	80-120	3	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	98	97	80-120	1	30
Batch number: E110981AA	Sample number(s): 6248208									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	113	113	80-123	0	30
Batch number: E110982AA	Sample number(s): 6248206-6248207									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	115	110	70-130	4	30
Batch number: Y110952AA	Sample number(s): 6248208									
Acetone	6	U	6.	20	ug/l	101	96	49-234	6	30
Benzene	0.5	U	0.5	5	ug/l	105	98	79-120	7	30
Bromobenzene	1	U	1.	5	ug/l	104	99	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	112	107	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	111	103	80-120	7	30
Bromoform	1	U	1.	5	ug/l	92	87	61-120	6	30
Bromomethane	1	U	1.	5	ug/l	117	109	44-120	7	30
2-Butanone	3	U	3.	10	ug/l	101	96	66-151	6	30
n-Butylbenzene	1	U	1.	5	ug/l	95	89	74-120	7	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	94	78-120	6	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	89	80-120	7	30
Carbon Tetrachloride	1	U	1.	5	ug/l	120	110	75-123	8	30
Chlorobenzene	0.8	U	0.8	5	ug/l	104	98	80-120	6	30
Chloroethane	1	U	1.	5	ug/l	109	101	49-129	8	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	90	86	56-129	4	30
Chloroform	0.8	U	0.8	5	ug/l	116	107	77-122	8	30
Chloromethane	1	U	1.	5	ug/l	80	77	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	101	94	80-120	6	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	96	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	77	66	38-136	15	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	94	90	56-126	5	30
Dibromochloromethane	1	U	1.	5	ug/l	103	96	80-120	7	30
1,2-Dibromoethane	1	U	1.	5	ug/l	106	99	80-120	7	30
Dibromomethane	1	U	1.	5	ug/l	109	104	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	101	96	80-120	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	102	98	80-120	4	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	102	97	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	97	87	47-120	10	30
1,1-Dichloroethane	1	U	1.	5	ug/l	107	99	79-120	7	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240432
Reported: 05/18/11 at 11:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	127	119	70-130	6	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	109	100	74-123	9	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	99	80-120	4	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	96	80-120	6	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	94	78-120	5	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	97	80-120	6	30
2,2-Dichloropropane	1	U	1.	5	ug/l	106	99	77-124	7	30
1,1-Dichloropropene	1	U	1.	5	ug/l	108	100	80-120	8	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	100	94	80-120	5	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	96	90	79-120	6	30
Ethylbenzene	0.8	U	0.8	5	ug/l	103	96	79-120	7	30
Freon 113	2	U	2.	10	ug/l	120	109	69-128	10	30
Freon 133a	2	U	2.	5	ug/l	116	103	77-120	12	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	93	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	96	91	65-136	6	30
Isopropylbenzene	1	U	1.	5	ug/l	104	97	77-120	7	30
p-Isopropyltoluene	1	U	1.	5	ug/l	99	94	80-120	6	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	100	76-120	5	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	102	96	70-121	6	30
Methylene Chloride	2	U	2.	5	ug/l	113	100	80-120	13	30
n-Propylbenzene	1	U	1.	5	ug/l	101	95	80-120	6	30
Styrene	1	U	1.	5	ug/l	98	92	80-120	7	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	106	99	80-120	7	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	91	71-120	3	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	110	103	80-121	7	30
Toluene	0.7	U	0.7	5	ug/l	101	95	79-120	7	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	97	94	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	87	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	117	108	75-127	8	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	103	98	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	109	101	80-120	8	30
Trichlorofluoromethane	2	U	2.	5	ug/l	135*	125	64-129	8	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	106	100	80-120	6	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	101	95	74-120	6	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	102	96	75-120	7	30
Vinyl Chloride	1	U	1.	5	ug/l	93	86	65-125	7	30
m+p-Xylene	0.8	U	0.8	5	ug/l	102	96	80-120	6	30
o-Xylene	0.8	U	0.8	5	ug/l	99	93	80-120	6	30

Batch number: 11101SLB026 Sample number(s): 6248206-6248207

Acenaphthene	0.67	U	0.67	1.7	ug/kg	98	63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101	60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	100	55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98	74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	77	58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	87	63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	78	44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	80	54-142
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	109	65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	112	75-137
Chrysene	0.33	U	0.33	1.7	ug/kg	97	73-114
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	77	53-138
Diethylphthalate	6.0	U	6.0	18	ug/kg	100	68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	106	79-121
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	118	67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	106	64-120
Fluorene	0.67	U	0.67	1.7	ug/kg	100	71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	77	56-134

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240432
Reported: 05/18/11 at 11:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	93		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	92		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	96		56-121		
Batch number: 11103SLB026	Sample number(s): 6248206-6248207									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	29		15-121		
Benzoic acid	170 U		170.	500	ug/kg	96		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	96		79-117		
Carbazole	33	U	33.	170	ug/kg	102		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	28		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	85		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	94		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	99		79-110		
Dibenzofuran	33	U	33.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	56		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	102		75-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	86		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	91		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	102		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	101		77-111		
Hexachlorobenzene	33	U	33.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	78		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	82		68-105		
Isophorone	33	U	33.	170	ug/kg	92		69-110		
2-Methylphenol	67	U	67.	170	ug/kg	96		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	104		66-117		
2-Nitroaniline	33	U	33.	170	ug/kg	102		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	86		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	95		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	95		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	100		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240432
Reported: 05/18/11 at 11:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	82		63-107		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	100		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	78		51-117		
Phenol	33	U	33.	170	ug/kg	97		58-112		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 111030013A	Sample number(s): 6248206-6248207									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	75	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	103		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111021026001A	Sample number(s): 6248206-6248207									
Antimony	0.0600	U	0.0600	0.200	mg/kg	177		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.162	J	0.0660	0.400	mg/kg	105		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	100		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	101		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	106		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	102		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	114		87-117		
Zinc	0.560	U	0.560	3.00	mg/kg	101		81-112		
Batch number: 111021026001B	Sample number(s): 6248206-6248207									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		83-111		
Batch number: 111021026001C	Sample number(s): 6248206-6248207									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	117		78-122		
Batch number: 111021026001D	Sample number(s): 6248206-6248207									
Barium	0.108	U	0.108	0.400	mg/kg	115*		81-111		
Batch number: 111025708001	Sample number(s): 6248206-6248207									
Aluminum	29.3		5.03	20.0	mg/kg	89		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	91		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	105		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	103		61-110		
Lithium	0.33	J	0.22	2.0	mg/kg	98		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	100		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	103		89-112		
Phosphorus	1.22	J	0.560	10.0	mg/kg	99		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	98		87-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240432
Reported: 05/18/11 at 11:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Strontium	0.0620	U	0.0620	0.500	mg/kg	101		86-110		
Tin	1.28	J	1.00	10.0	mg/kg	104		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	96		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	105		80-120		
Batch number: 111025711002	Sample number(s): 6248206-6248207									
Mercury	0.0028	U	0.0028	0.0978	mg/kg	95		88-123		
Batch number: 11101101201A	Sample number(s): 6248206-6248207									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11105105201A	Sample number(s): 6248206-6248207									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
Batch number: 11107243201A	Sample number(s): 6248206-6248207									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	98		80-120		
Batch number: 11101039401A	Sample number(s): 6248206-6248207									
18a pH by 9045C						99		95-105		
Batch number: 11101182103A	Sample number(s): 6248206									
32a OR Potential						99		98-102		
Batch number: 11101182103B	Sample number(s): 6248207									
32a OR Potential						99		98-102		
Batch number: 11101162401B	Sample number(s): 6248206-6248207									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11101SLB026	Sample number(s): 6248206-6248207 UNSPK: P245566								
Acenaphthene	93	96	63-105	3	30				
Acenaphthylene	103	107	67-114	4	30				
Anthracene	102	108	60-122	6	30				
Benzo(a)anthracene	106	112	59-128	5	30				
Benzo(a)pyrene	76	80	45-138	5	30				
Benzo(b)fluoranthene	93	100	43-155	8	30				
Benzo(g,h,i)perylene	40	37	33-141	7	30				
Benzo(k)fluoranthene	80	88	42-144	9	30				
Butylbenzylphthalate	123	130	57-173	5	30				
Di-n-butylphthalate	83	90	65-148	6	30				
Chrysene	99	105	48-134	6	30				
Dibenz(a,h)anthracene	50	47	22-133	5	30				
Diethylphthalate	80	85	70-136	5	30				
Dimethylphthalate	104	108	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	108	115	39-167	5	30				
Fluoranthene	111	118	26-166	6	30				
Fluorene	100	103	66-122	3	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Indeno(1,2,3-cd)pyrene	48	46	21-143	5	30				
1-Methylnaphthalene	93	98	72-123	5	30				
2-Methylnaphthalene	85	88	64-103	4	30				
Naphthalene	90	94	61-102	4	30				
N-Nitrosodimethylamine	93	93	48-113	0	30				
Di-n-octylphthalate	117	132	40-192	12	30				
Phenanthrene	90	96	12-165	6	30				
Pyrene	97	105	15-153	8	30				
Batch number: 11103SLB026	Sample number(s): 6248206-6248207 UNSPK: P255761								
Aniline	62	61	35-95	1	30				
Benzidine	15*	21*	35-141	37*	30				
Benzoic acid	96	79	10-173	19	30				
Benzyl alcohol	92	90	67-115	1	30				
4-Bromophenyl-phenylether	91	87	67-129	4	30				
Carbazole	97	93	64-120	4	30				
4-Chloro-3-methylphenol	98	94	76-110	3	30				
4-Chloroaniline	42	44	23-95	6	30				
bis(2-Chloroethoxy)methane	93	88	75-104	4	30				
bis(2-Chloroethyl)ether	90	85	60-116	5	30				
bis(2-Chloroisopropyl)ether	82	80	55-142	2	30				
2-Chloronaphthalene	93	88	50-141	4	30				
2-Chlorophenol	96	95	73-121	1	30				
4-Chlorophenyl-phenylether	95	90	80-109	5	30				
Dibenzofuran	96	93	71-112	3	30				
1,2-Dichlorobenzene	79	79	66-108	0	30				
1,3-Dichlorobenzene	79	77	63-109	2	30				
1,4-Dichlorobenzene	80	78	70-100	2	30				
3,3'-Dichlorobenzidine	74	72	16-119	3	30				
2,4-Dichlorophenol	99	96	78-117	3	30				
2,4-Dimethylphenol	94	94	78-110	0	30				
3,5-Dimethylphenol	99	95	70-130	4	30				
4,6-Dinitro-2-methylphenol	62	50	24-116	21	30				
2,4-Dinitrophenol	57	37	20-143	41*	30				
2,4-Dinitrotoluene	98	92	73-113	7	30				
2,6-Dinitrotoluene	97	91	69-123	6	30				
1,2-Diphenylhydrazine	98	95	71-129	3	30				
Hexachlorobenzene	93	89	77-114	4	30				
Hexachlorobutadiene	85	79	62-120	7	30				
Hexachlorocyclopentadiene	54	43	10-153	24	30				
Hexachloroethane	77	75	57-109	2	30				
Isophorone	92	86	73-102	6	30				
2-Methylphenol	95	96	75-111	1	30				
4-Methylphenol	103	101	71-111	2	30				
2-Nitroaniline	99	96	67-125	3	30				
3-Nitroaniline	92	88	59-122	4	30				
4-Nitroaniline	73	78	52-112	7	30				
Nitrobenzene	93	88	72-106	5	30				
2-Nitrophenol	92	86	74-115	6	30				
4-Nitrophenol	95	90	54-113	5	30				
N-Nitroso-di-n-propylamine	74	83	60-116	13	30				
N-Nitrosodiphenylamine	97	95	86-145	2	30				
Pentachlorophenol	75	73	28-127	2	30				

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Quality Control Summary

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Reported: 05/18/11 at 11:52 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phenol	96	93	58-126	2	30				
1,2,4-Trichlorobenzene	90	85	72-115	5	30				
2,4,5-Trichlorophenol	97	95	78-109	2	30				
2,4,6-Trichlorophenol	97	92	77-115	5	30				
Batch number: 111030013A	Sample number(s): 6248206-6248207 UNSPK: P245566								
PCB-1016	76	67	29-146	13	50				
PCB-1260	85	75	39-149	12	50				
Batch number: 111021026001A	Sample number(s): 6248206-6248207 UNSPK: P255761 BKG: P255761								
Antimony	90	73*	75-125	16	20	0.0837 J	0.150 J	57* (1)	20
Arsenic	126*	122	75-125	0	20	2.59	2.44	6	20
Beryllium	117	110	75-125	2	20	0.428	0.430	0 (1)	20
Cadmium	123	107	75-125	10	20	0.141	0.170	18 (1)	20
Chromium	131*	127*	75-125	0	20	12.6	12.7	1	20
Cobalt	112	101	75-125	7	20	4.55	4.69	3	20
Copper	133*	124	75-125	2	20	8.73	9.43	8	20
Lead	151*	150*	75-125	1	20	4.19	4.36	4	20
Nickel	134*	127*	75-125	2	20	8.70	8.75	1	20
Silver	110	101	75-125	6	20	0.0239 J	0.0237 J	1 (1)	20
Thallium	133*	112	75-125	10	20	0.215	0.245	13 (1)	20
Vanadium	160*	177*	75-125	5	20	22.7	24.3	7	20
Zinc	180 (2)	185 (2)	75-125	2	20	45.9	47.7	4	20
Batch number: 111021026001B	Sample number(s): 6248206-6248207 UNSPK: P255761 BKG: P255761								
Selenium	108	97	75-125	7	20	0.104 J	0.0963 J	8 (1)	20
Batch number: 111021026001C	Sample number(s): 6248206-6248207 UNSPK: P255761 BKG: P255761								
Molybdenum	112	100	75-125	8	20	0.355	0.441	21* (1)	20
Batch number: 111021026001D	Sample number(s): 6248206-6248207 UNSPK: P255761 BKG: P255761								
Barium	311 (2)	98 (2)	75-125	17	20	96.3	97.8	2	20
Batch number: 111025708001	Sample number(s): 6248206-6248207 UNSPK: P255761 BKG: P255761								
Aluminum	2160 (2)	1678 (2)	75-125	6	20	12,700	12,000	5	20
Boron	95	96	84-115	2	20	2.32 J	2.52 J	9 (1)	20
Calcium	135 (2)	136 (2)	75-125	0	20	1,900	1,800	6	20
Iron	373 (2)	-1674 (2)	75-125	12	20	17,900	15,800	12	20
Lithium	103	104	82-114	1	20	17.3	16.7	4	20
Magnesium	205 (2)	125 (2)	75-125	4	20	3,430	3,270	5	20
Manganese	115 (2)	95 (2)	75-125	4	20	225	218	3	20
Phosphorus	73*	52*	75-125	6	20	289	261	10	20
Potassium	120	135*	75-125	4	20	2,920	3,000	3	20
Sodium	98	98	75-125	0	20	113	108	5 (1)	20
Strontium	97	98	75-115	1	20	18.7	17.5	6	20
Tin	89	90	80-110	1	20	2.53 J	2.42 J	5 (1)	20
Titanium	265 (2)	262 (2)	75-125	0	20	1,010	986	2	20
Zirconium	98	100	75-125	2	20	4.09 J	3.25 J	23* (1)	20
Batch number: 111025711002	Sample number(s): 6248206-6248207 UNSPK: P255761 BKG: P255761								
Mercury	93	94	65-135	2	20	0.0028 U	0.0027 U	0 (1)	20

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11101101201A	Sample number(s): 6248206-6248207 UNSPK: P247206 BKG: P247206								
7a Perchlorate EPA 314.0	97		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11105105201A	Sample number(s): 6248206-6248207 UNSPK: P245566 BKG: P245566								
11a Anions by 300.0 - Fluoride	85		80-120			1.4	1.4	0 (1)	20
Batch number: 11107243201A	Sample number(s): 6248206-6248207 UNSPK: P245568 BKG: P245568								
3a Cr VI by EPA 7199	92		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11101039401A	Sample number(s): 6248206-6248207 BKG: 6248206								
18a pH by 9045C						7.33	7.35	0	1
Batch number: 11101182103A	Sample number(s): 6248206 BKG: 6248206								
32a OR Potential						272	268	1	6
Batch number: 11101182103B	Sample number(s): 6248207 BKG: 6248207								
32a OR Potential						282	288	2	6
Batch number: 11101162401B	Sample number(s): 6248206-6248207 BKG: P253029								
Moisture Content by 160.3						14.2	13.5	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110972AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6248206	100	104	98	92
6248207	97	96	100	91
Blank	98	102	99	91
LCS	98	98	102	97
LCSD	97	101	102	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110981AA

	Toluene-d8
6248208	101
Blank	101
LCS	101
LCSD	100
Limits:	80-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240432
Reported: 05/18/11 at 11:52 AM

Surrogate Quality Control

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110982AA

	Toluene-d8
6248206	97
6248207	97
Blank	98
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110952AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6248208	110	102	99	93
Blank	108	103	100	93
LCS	107	103	101	99
LCSD	107	105	100	98
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11101SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6248206	91	83	92
6248207	93	88	89
Blank	95	90	102
LCS	97	89	97
MS	95	88	103
MSD	97	91	109
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11103SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6248206	89	94	98	89	88	80
6248207	87	90	99	84	84	83
Blank	88	94	90	87	87	79
LCS	96	99	103	90	92	87
MS	92	95	94	88	87	87
MSD	91	93	92	83	83	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111030013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6248206	80	104
6248207	82	101
Blank	90	108
LCS	80	103

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240432
Reported: 05/18/11 at 11:52 AM

Surrogate Quality Control

LCSD	76	96
MS	79	66
MSD	73	65
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1240432 6248206-08

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-085-SA5A-SB-4.5	04.04.11	0950	SOIL	NONE	4-Encores										X	X											
SL-085-SA5A-SB-4.0-5.0	04.04.11	0954	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-087-SA5A-SB-2.5	04.04.11	1050	SOIL	NONE	4-Encores										X	X											
SL-087-SA5A-SB-2.0-3.0	04.04.11	1056	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-040411	04.01.11	0800	WATER	HCl	3-40 mL VOA VIALS										X	X											TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 04/04/2011 / 1700		Received for Laboratory by: (*Signature*)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 4/5/11 1000		Airbill No.(s) 8700 5935 4270																								

May 18, 2011

Mr. Todd Burgesser
CDM
Suite 1100, 555 17th Street
Denver, CO 80202

Dear Mr. Burgesser:

I am writing to inform you of revised analytical reports that are being issued for the following:

Project No. SSFL Area IV Collocated Soil Sampling

Group No. 1240432 **SDG: DE118**

LLI Sample No.	Client Sample Identification	Collection Date
6248206	SL-085-SA5A-SB-4.0-5.0 Soil	04/04/2011
6248207	SL-087-SA5A-SB-2.0-3.0 Soil	04/04/2011

The correction to the data affects the barium analysis only.

During data package review, it was noted that the barium Laboratory Control Sample was out of specification high for these samples. It was missed due to the acceptance window being incorrect with a range of 81% to 980%. The Laboratory Control Sample range has been corrected to 81% to 111% on the QC Summary and a comment has been added to the samples with results greater than the reporting limit.

The revised analytical report reflects this correction and is enclosed.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1923. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,

Jennifer L. Moyer
Senior Specialist
Metals

JLM/mcs
Enclosures

cc: Nicole Maljovec

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/06/2011
Group Number: 1240656
SDG: DE119
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-154-SA5A-SB-4.0-5.0 Soil	6250041
SL-154-SA5A-SB-7.0-8.0 Soil	6250042
SL-156-SA5A-SB-3.0-4.0 Soil	6250043
EB11-SA5A-SB-040511 Water	6250044
TB-040511 Water	6250045

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Max E. Snavely
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: SL-154-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-4.0-5.0

LLI Sample # SW 6250041
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:15

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE119-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.85
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.85
06192	Methylene Chloride	75-09-2	0.98	J	0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-154-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-4.0-5.0

LLI Sample # SW 6250041
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:15

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE119-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.26
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	35.3	J	19.4	38.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-154-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-4.0-5.0

LLI Sample # SW 6250041
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:15

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE119-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	10	J	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	8.7	J	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.1	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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Sample Description: SL-154-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-4.0-5.0

LLI Sample # SW 6250041
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:15

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE119-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.15
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.51	J	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.58	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1

The recoveries for target analytes in the LCS are outside the QC acceptance limits noted on the QC summary. The sample was re-extracted outside the method hold time. QC results from the re-extraction are within the limits. All results are reported from the original extract. The result for the reextraction is non-detect.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1

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Sample Description: SL-154-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-4.0-5.0

LLI Sample # SW 6250041
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:15

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE119-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,700		5.88	23.4		1
07914	Boron	7440-42-8	1.44	J	1.04	5.85		1
01650	Calcium	7440-70-2	2,180		7.17	23.4		1
01654	Iron	7439-89-6	22,600		5.51	23.4		1
01656	Lithium	7439-93-2	23.5		0.26	2.3		1
01657	Magnesium	7439-95-4	4,360		2.97	11.7		1
06958	Manganese	7439-96-5	262		0.0912	0.585		1
10145	Phosphorus	7723-14-0	167		0.655	11.7		1
01662	Potassium	7440-09-7	1,750		21.1	58.5		1
01667	Sodium	7440-23-5	137		43.6	117		1
07968	Strontium	7440-24-6	21.5		0.0725	0.585		1
06969	Tin	7440-31-5	2.91	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,210		0.444	1.17		1
10146	Zirconium	7440-67-7	2.19	J	0.982	5.85		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.201	J	0.0695	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.53		0.0926	0.463		2
06126	Barium	7440-39-3	105		0.125	0.463		2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.							
06127	Beryllium	7440-41-7	0.948		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.0764	J	0.0463	0.116		2
06131	Chromium	7440-47-3	21.0		0.139	0.463		2
06132	Cobalt	7440-48-4	6.21		0.0232	0.116		2
06133	Copper	7440-50-8	7.31		0.0764	0.463		2
06135	Lead	7439-92-1	6.77		0.0120	0.232		2
06138	Molybdenum	7439-98-7	0.917		0.0579	0.116		2
06139	Nickel	7440-02-0	12.7		0.116	0.463		2
06141	Selenium	7782-49-2	0.0659	J	0.0463	0.463		2
06142	Silver	7440-22-4	0.0624	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.308		0.0347	0.116		2
06148	Vanadium	7440-62-2	43.9		0.0255	0.116		2
06149	Zinc	7440-66-6	54.8		0.648	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-154-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-4.0-5.0

LLI Sample # SW 6250041
LLI Group # 1240656
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Project Name: SSFL Area IV Collocated Soil Sampling

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S1544 SDG#: DE119-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.94	1.8		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	274		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.13		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-154-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110972AA	04/07/2011	17:09	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110982AA	04/08/2011	22:13	Sara E Johnson	20.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109624022	04/06/2011	18:57	Lois E Hiltz	n.a.

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Sample Description: **SL-154-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
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S1544 SDG#: DE119-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109624022	04/06/2011 19:16	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109624022	04/06/2011 19:16	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109624022	04/06/2011 18:54	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/20/2011 12:46	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 14:08	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/14/2011 20:30	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11101A34A	04/11/2011 13:08	Elizabeth J Marin	21.15
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109624022	04/06/2011 18:53	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111010012A	04/13/2011 18:06	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111010003A	04/13/2011 22:10	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 06:33	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111010003A	04/11/2011 18:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111010012A	04/11/2011 16:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111040015A	04/19/2011 22:09	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111010040A	04/11/2011 20:51	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110980006A	04/11/2011 16:55	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111030030A	04/19/2011 16:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111040015A	04/14/2011 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111030030A	04/14/2011 12:15	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111010040A	04/11/2011 18:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	110980006A	04/08/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 08:10	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 08:10	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 08:10	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 17:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 08:10	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 08:10	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 08:10	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 08:10	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 08:10	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 08:10	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 08:10	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 08:10	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 08:10	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

REVISED

Sample Description: SL-154-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-4.0-5.0

LLI Sample # SW 6250041
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:15

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE119-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 08:10	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 09:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 09:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 09:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201B	04/16/2011 12:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11105105201B	04/16/2011 12:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201A	04/25/2011 21:19	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11107243201A	04/19/2011 04:31	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201B	04/13/2011 21:03	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201B	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201A	04/11/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201B	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11101182103A	04/11/2011 14:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11101039401A	04/11/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

REVISED

Sample Description: SL-154-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-7.0-8.0

LLI Sample # SW 6250042
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:22

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1547 SDG#: DE119-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.91
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.91
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.91
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.91
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.91
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.91
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.91
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.91
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3		0.91
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.91
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.91
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.91
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.91
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.91
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.91
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.91
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.91
06192	Methylene Chloride	75-09-2	6.4		0.26	4.3		0.91
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.91

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-154-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-7.0-8.0

LLI Sample # SW 6250042
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:22

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1547 SDG#: DE119-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.91
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.91
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.91
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.91
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		23.9
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	27.3	J	19.4	38.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-154-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-7.0-8.0

LLI Sample # SW 6250042
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:22

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1547 SDG#: DE119-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	10	J	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	8.4	J	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.7	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1

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Sample Description: **SL-154-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-7.0-8.0

LLI Sample # SW 6250042
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:22

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1547 SDG#: DE119-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.11
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.63	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1

The recoveries for target analytes in the LCS are outside the QC acceptance limits noted on the QC summary. The sample was re-extracted outside the method hold time. QC results from the re-extraction are within the limits. All results are reported from the original extract. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1

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SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-7.0-8.0

LLI Sample # SW 6250042
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:22

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1547 SDG#: DE119-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		5.88	23.4		1
07914	Boron	7440-42-8	1.04	U	1.04	5.84		1
01650	Calcium	7440-70-2	2,290		7.17	23.4		1
01654	Iron	7439-89-6	22,700		5.51	23.4		1
01656	Lithium	7439-93-2	25.8		0.26	2.3		1
01657	Magnesium	7439-95-4	4,690		2.97	11.7		1
06958	Manganese	7439-96-5	178		0.0912	0.584		1
10145	Phosphorus	7723-14-0	168		0.655	11.7		1
01662	Potassium	7440-09-7	1,900		21.0	58.4		1
01667	Sodium	7440-23-5	113	J	43.6	117		1
07968	Strontium	7440-24-6	23.1		0.0725	0.584		1
06969	Tin	7440-31-5	3.15	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,410		0.444	1.17		1
10146	Zirconium	7440-67-7	3.95	J	0.982	5.84		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.269		0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.97		0.0926	0.463		2
06126	Barium	7440-39-3	101		0.125	0.463		2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.							
06127	Beryllium	7440-41-7	0.994		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.0659	J	0.0463	0.116		2
06131	Chromium	7440-47-3	25.2		0.139	0.463		2
06132	Cobalt	7440-48-4	8.18		0.0231	0.116		2
06133	Copper	7440-50-8	9.62		0.0764	0.463		2
06135	Lead	7439-92-1	7.52		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.895		0.0579	0.116		2
06139	Nickel	7440-02-0	15.0		0.116	0.463		2
06141	Selenium	7782-49-2	0.114	J	0.0463	0.463		2
06142	Silver	7440-22-4	0.0599	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.386		0.0347	0.116		2
06148	Vanadium	7440-62-2	57.4		0.0255	0.116		2
06149	Zinc	7440-66-6	60.8		0.648	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: SL-154-SA5A-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-7.0-8.0

LLI Sample # SW 6250042
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:22

Submitted: 04/06/2011 09:00
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14420 Albemarle Point Place
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Chantilly VA 20151

S1547 SDG#: DE119-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.94	1.8		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	279		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-154-SA5A-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110972AA	04/07/2011	17:32	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110982AA	04/08/2011	22:33	Sara E Johnson	23.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109624022	04/06/2011	19:03	Lois E Hiltz	n.a.

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SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-7.0-8.0

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S1547 SDG#: DE119-02

Laboratory Sample Analysis Record

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07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109624022	04/06/2011 19:17	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109624022	04/06/2011 19:17	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109624022	04/06/2011 19:00	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/20/2011 13:02	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 14:33	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/14/2011 21:03	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11101A34A	04/11/2011 13:44	Elizabeth J Marin	23.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109624022	04/06/2011 18:59	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111010012A	04/13/2011 18:49	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111010003A	04/13/2011 22:49	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 06:52	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111010003A	04/11/2011 18:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111010012A	04/11/2011 16:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111040015A	04/19/2011 22:34	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111010040A	04/11/2011 21:05	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110980006A	04/11/2011 18:41	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111030030A	04/19/2011 18:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111040015A	04/14/2011 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111030030A	04/14/2011 12:15	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111010040A	04/11/2011 18:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	110980006A	04/08/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 08:14	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 08:14	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 08:14	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 17:22	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 08:14	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 08:14	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 08:14	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 08:14	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 08:14	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 08:14	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 08:14	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 08:14	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 08:14	Damary Valentin	1

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S1547 SDG#: DE119-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 08:14	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 09:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 09:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 09:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201B	04/16/2011 13:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11105105201B	04/16/2011 13:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201A	04/25/2011 21:41	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11107243201A	04/19/2011 04:45	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201B	04/13/2011 21:04	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201B	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201A	04/11/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201B	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11101182103A	04/11/2011 14:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11101039401A	04/11/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-156-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5A-SB-3.0-4.0

LLI Sample # SW 6250043
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 09:34

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1563 SDG#: DE119-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.89
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.89
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.89
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.89
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.89
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.89
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.89
06192	Methylene Chloride	75-09-2	13		0.24	4.0		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.89

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-156-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5A-SB-3.0-4.0

LLI Sample # SW 6250043
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 09:34

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1563 SDG#: DE119-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.48
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	187	U	187	374		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: SL-156-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5A-SB-3.0-4.0

LLI Sample # SW 6250043
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 09:34

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1563 SDG#: DE119-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	13	J	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	8.1	J	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.6	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-156-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5A-SB-3.0-4.0

LLI Sample # SW 6250043
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 09:34

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1563 SDG#: DE119-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.88	J	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.90	J	0.75	1.9		1
10138	Naphthalene	91-20-3	0.84	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.93
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-156-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5A-SB-3.0-4.0

LLI Sample # SW 6250043
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 09:34

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1563 SDG#: DE119-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.9	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	2.0		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.71	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.2	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	4.1		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	3.2		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1

The recoveries for target analytes in the LCS are outside the QC acceptance limits noted on the QC summary. The sample was re-extracted outside the method hold time. QC results from the re-extraction are within the limits. All results are reported from the original extract. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

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Sample Description: SL-156-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5A-SB-3.0-4.0

LLI Sample # SW 6250043
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 09:34

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1563 SDG#: DE119-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		5.64	22.4		1
07914	Boron	7440-42-8	0.998	U	0.998	5.61		1
01650	Calcium	7440-70-2	2,090		6.87	22.4		1
01654	Iron	7439-89-6	19,300		5.28	22.4		1
01656	Lithium	7439-93-2	21.2		0.25	2.2		1
01657	Magnesium	7439-95-4	3,940		2.85	11.2		1
06958	Manganese	7439-96-5	245		0.0875	0.561		1
10145	Phosphorus	7723-14-0	278		0.628	11.2		1
01662	Potassium	7440-09-7	2,690		20.2	56.1		1
01667	Sodium	7440-23-5	74.7	J	41.8	112		1
07968	Strontium	7440-24-6	14.1		0.0695	0.561		1
06969	Tin	7440-31-5	2.94	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,090		0.426	1.12		1
10146	Zirconium	7440-67-7	2.40	J	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.368		0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.02		0.0888	0.444		2
06126	Barium	7440-39-3	95.0		0.120	0.444		2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.							
06127	Beryllium	7440-41-7	0.705		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.0774	J	0.0444	0.111		2
06131	Chromium	7440-47-3	18.7		0.133	0.444		2
06132	Cobalt	7440-48-4	11.8		0.0222	0.111		2
06133	Copper	7440-50-8	8.38		0.0733	0.444		2
06135	Lead	7439-92-1	8.56		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.651		0.0555	0.111		2
06139	Nickel	7440-02-0	11.4		0.111	0.444		2
06141	Selenium	7782-49-2	0.151	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.848		0.0133	0.111		2
06145	Thallium	7440-28-0	0.360		0.0333	0.111		2
06148	Vanadium	7440-62-2	38.7		0.0244	0.111		2
06149	Zinc	7440-66-6	57.8		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0096	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-156-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5A-SB-3.0-4.0

LLI Sample # SW 6250043
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 09:34

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1563 SDG#: DE119-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.91	U	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	299		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-156-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110972AA	04/07/2011	17:54	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110982AA	04/08/2011	22:53	Sara E Johnson	21.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109624022	04/06/2011	19:12	Lois E Hiltz	n.a.

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Sample Description: **SL-156-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5A-SB-3.0-4.0

LLI Sample # SW 6250043
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 09:34

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1563 SDG#: DE119-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109624022	04/06/2011 19:17	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109624022	04/06/2011 19:17	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109624022	04/06/2011 19:09	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/20/2011 13:19	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 14:57	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/14/2011 21:35	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11101A34A	04/11/2011 14:21	Elizabeth J Marin	21.93
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109624022	04/06/2011 19:08	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111010012A	04/13/2011 19:31	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111010003A	04/13/2011 22:58	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 07:10	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111010003A	04/11/2011 18:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111010012A	04/11/2011 16:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111040015A	04/20/2011 01:54	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111010040A	04/11/2011 21:20	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110980006A	04/11/2011 18:58	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111030030A	04/19/2011 19:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111040015A	04/14/2011 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111030030A	04/14/2011 12:15	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111010040A	04/11/2011 18:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	110980006A	04/08/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 08:18	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 08:18	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 08:18	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 17:26	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 08:18	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 08:18	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 08:18	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 08:18	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 08:18	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 08:18	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 08:18	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 08:18	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 08:18	Damary Valentin	1

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Analysis Report

REVISED

Sample Description: SL-156-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5A-SB-3.0-4.0

LLI Sample # SW 6250043
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 09:34

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1563 SDG#: DE119-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 08:18	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 09:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 09:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 09:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201B	04/16/2011 13:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11105105201B	04/16/2011 13:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201A	04/25/2011 22:04	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11107243201A	04/19/2011 05:07	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201B	04/13/2011 21:06	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201B	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201A	04/11/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201B	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11101182103A	04/11/2011 14:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11101039401A	04/11/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

REVISED

Sample Description: EB11-SA5A-SB-040511 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5A-SB-040511

LLI Sample # WW 6250044
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 14:50

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-11 SDG#: DE119-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: **EB11-SA5A-SB-040511 Water**
SSFL Area IV Collocated Soil Sampling
EB11-SA5A-SB-040511

LLI Sample # WW 6250044
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 14:50

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-11 SDG#: DE119-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

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Sample Description: EB11-SA5A-SB-040511 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5A-SB-040511

LLI Sample # WW 6250044
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 14:50

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-11 SDG#: DE119-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.055		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.055		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.055		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.055		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.055		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.055		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.055		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.055		1
10137	Butylbenzylphthalate	85-68-7	0.055	U	0.055	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.62	J	0.055	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.055		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.055		1
10137	Diethylphthalate	84-66-2	0.066	J	0.055	1.1		1
10137	Dimethylphthalate	131-11-3	0.055	U	0.055	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.098	J	0.055	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.055		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.055		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.055		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.055		1

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Sample Description: **EB11-SA5A-SB-040511 Water**
SSFL Area IV Collocated Soil Sampling
EB11-SA5A-SB-040511

LLI Sample # WW 6250044
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 14:50

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-11 SDG#: DE119-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.055		1
10137	Naphthalene	91-20-3	0.036	J	0.033	0.055		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.055		1
10137	Di-n-octylphthalate	117-84-0	0.055	U	0.055	1.1		1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.055		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.055		1
Reporting limits were raised due to limited sample volume.								
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.51		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.51		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.51		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.51		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.51		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.51		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.51		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.51		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.51		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.51		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.51		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.51		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.168	J	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0305	J	0.0172	0.100		1
07058	Manganese	7439-96-5	0.0014	J	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1

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Sample Description: **EB11-SA5A-SB-040511 Water**
SSFL Area IV Collocated Soil Sampling
EB11-SA5A-SB-040511

LLI Sample # WW 6250044
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 14:50

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-11 SDG#: DE119-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111011AA	04/11/2011	04:47	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110981AA	04/08/2011	16:04	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110981AA	04/08/2011	16:04	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111011AA	04/11/2011	04:47	Holly Berry	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11097WAD026	04/09/2011	01:20	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11098WAK026	04/11/2011	19:36	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11097WAD026	04/08/2011	13:00	Kelli M Barto	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11098WAK026	04/11/2011	08:40	Kerrie A Freeburn	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111010030A	04/15/2011	10:34	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111010030A	04/12/2011	10:20	Denise L Trimby	1
01743	Aluminum	SW-846 6010B	1	111021848002	04/18/2011	18:32	John P Hook	1
08014	Boron	SW-846 6010B	1	111021848002	04/17/2011	22:24	Tara L Snyder	1

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Sample Description: EB11-SA5A-SB-040511 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5A-SB-040511

LLI Sample # WW 6250044
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 14:50

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-11 SDG#: DE119-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01750	Calcium	SW-846 6010B	1	111021848002	04/17/2011 22:24	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	111021848002	04/17/2011 22:24	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	111021848002	04/17/2011 22:24	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	111021848002	04/17/2011 22:24	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	111021848002	04/17/2011 22:24	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	111021848002	04/17/2011 22:24	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	111021848002	04/17/2011 22:24	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	111021848002	04/17/2011 22:24	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	111021848002	04/17/2011 22:24	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	111021848002	04/17/2011 22:24	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	111021848002	04/17/2011 22:24	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	111021848002	04/17/2011 22:24	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	111026050003A	04/13/2011 13:32	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111026050003A	04/13/2011 13:32	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111026050003D	04/13/2011 13:32	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111026050003A	04/13/2011 13:32	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111026050003A	04/13/2011 13:32	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111026050003A	04/13/2011 13:32	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111026050003A	04/13/2011 13:32	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111026050003A	04/13/2011 13:32	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111026050003A	04/13/2011 13:32	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111026050003C	04/13/2011 13:32	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111026050003A	04/13/2011 13:32	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111026050003B	04/13/2011 13:32	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111026050003A	04/13/2011 13:32	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111026050003A	04/13/2011 13:32	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111026050003A	04/13/2011 13:32	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111026050003A	04/13/2011 13:32	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	110975713001	04/11/2011 07:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111021848002	04/12/2011 20:30	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111026050003	04/12/2011 20:30	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110975713001	04/08/2011 17:35	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11108196601C	04/18/2011 16:36	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11115196701A	04/26/2011 03:42	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11096130402B	04/06/2011 16:48	James S Mathiot	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: TB-040511 Water
SSFL Area IV Collocated Soil Sampling
TB-040511

LLI Sample # WW 6250045
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 08:00

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB405 SDG#: DE119-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

REVISED

Sample Description: TB-040511 Water
SSFL Area IV Collocated Soil Sampling
TB-040511

LLI Sample # WW 6250045
LLI Group # 1240656
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 08:00

Submitted: 04/06/2011 09:00
Reported: 05/18/2011 11:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB405 SDG#: DE119-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111011AA	04/11/2011	05:08	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110981AA	04/08/2011	16:24	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110981AA	04/08/2011	16:24	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111011AA	04/11/2011	05:08	Holly Berry	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11098A20A	04/11/2011	12:06	Elizabeth J Marin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11098A20A	04/11/2011	12:06	Elizabeth J Marin	1

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Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110972AA	Sample number(s): 6250041-6250043									
Acetone	6.7	U	6.7	8.0	ug/kg	130	130	32-209	1	30
Benzene	0.10	U	0.10	4.0	ug/kg	110	108	80-120	2	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	105	104	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	121	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	96	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	86	87	70-120	2	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	92	87	32-162	6	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	108	113	46-153	4	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	116	110	72-120	5	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	118	114	75-120	4	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	107	103	75-120	4	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	98	95	69-122	4	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102	100	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	93	88	37-154	5	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	73	76	43-146	4	30
Chloroform	0.12	U	0.12	4.0	ug/kg	104	103	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	100	95	54-132	4	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	107	105	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	107	104	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	69	69	22-131	0	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	90	95	58-120	6	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	92	93	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99	101	80-120	3	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99	100	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	102	100	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	103	103	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	104	102	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	86	82	20-120	5	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	106	105	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	100	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	116	110	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105	103	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106	103	79-120	3	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	105	104	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	101	101	80-120	0	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92	92	72-123	0	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	101	77-120	3	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	96	96	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	90	91	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104	102	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	121	113	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	101	101	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	102	98	57-120	4	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	103	109	45-155	6	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	106	102	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	114	109	75-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	93	95	74-121	2	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	94	99	61-134	5	30
Methylene Chloride	0.52	J	0.24	4.0	ug/kg	112	111	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	117	114	77-120	3	30
Styrene	0.10	U	0.10	4.0	ug/kg	96	95	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	95	95	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103	106	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100	97	77-120	2	30
Toluene	0.09	J	0.08	4.0	ug/kg	105	103	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	94	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	92	90	68-120	2	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101	97	71-125	4	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	99	100	80-120	0	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	103	100	80-120	4	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	106	99	58-133	7	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101	105	71-123	4	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	111	107	79-120	4	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	113	108	78-120	4	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	98	93	53-120	5	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103	100	80-120	3	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	98	97	80-120	1	30
Batch number: E110981AA	Sample number(s): 6250044-6250045									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	113	113	80-123	0	30
Batch number: E110982AA	Sample number(s): 6250041-6250043									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	115	110	70-130	4	30
Batch number: Y111011AA	Sample number(s): 6250044-6250045									
Acetone	6	U	6.	20	ug/l	130	115	49-234	12	30
Benzene	0.5	U	0.5	5	ug/l	108	109	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	110	111	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	113	114	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	106	107	80-120	1	30
Bromoform	1	U	1.	5	ug/l	94	96	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	108	108	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	117	118	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	98	101	74-120	4	30
sec-Butylbenzene	1	U	1.	5	ug/l	103	105	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	102	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	110	111	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	108	108	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	98	98	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	104	106	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	111	111	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	103	89	60-129	14	30
2-Chlorotoluene	1	U	1.	5	ug/l	104	107	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	102	107	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	65	58	38-136	10	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	96	99	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	104	105	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	107	111	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	110	110	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	104	106	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	107	108	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	106	108	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	95	88	47-120	8	30
1,1-Dichloroethane	1	U	1.	5	ug/l	109	109	79-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	116	116	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	105	99	74-123	6	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	108	108	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	105	105	80-120	0	30
1,2-Dichloropropane	1	U	1.	5	ug/l	104	106	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	105	108	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	98	100	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	106	107	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	101	102	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	95	97	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	105	105	79-120	0	30
Freon 113	2	U	2.	10	ug/l	114	105	69-128	8	30
Freon 133a	2	U	2.	5	ug/l	117	112	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	104	58-120	9	30
2-Hexanone	3	U	3.	10	ug/l	104	105	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	105	106	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	103	105	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	107	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	103	106	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	105	103	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	105	107	80-120	2	30
Styrene	1	U	1.	5	ug/l	100	100	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	104	106	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	105	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	111	111	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	104	105	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	102	107	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	95	99	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	109	109	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	107	108	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	108	110	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	119	120	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	107	113	80-120	5	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	105	74-120	3	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	104	105	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	95	91	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	105	105	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	101	105	80-120	3	30
Batch number: 11097WAD026	Sample number(s): 6250044									
Aniline	1	U	1.	5	ug/l	62	66	49-101	6	30
Benzidine	20	U	20.	60	ug/l	60	63	34-117	5	30
Benzoic acid	6	U	6.	15	ug/l	33	30	10-69	11	30
Benzyl alcohol	5	U	5.	15	ug/l	74	78	66-97	5	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	96	100	82-117	4	30
Carbazole	1	U	1.	5	ug/l	96	99	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	87	88	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	64	70	42-124	8	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	91	95	74-124	4	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	87	91	77-108	4	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	85	89	62-127	5	30
2-Chloronaphthalene	2	U	2.	5	ug/l	87	89	54-132	2	30
2-Chlorophenol	1	U	1.	5	ug/l	86	90	77-108	5	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	93	96	82-111	3	30
Dibenzofuran	1	U	1.	5	ug/l	95	97	83-108	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	89	92	55-118	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	92	95	50-119	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	89	92	53-119	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	68	72	49-111	6	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	92	97	80-109	5	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	91	94	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	85	88	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	87	89	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	76	78	52-131	2	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	92	95	81-115	4	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	92	96	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	98	102	78-116	4	30
Hexachlorobenzene	1	U	1.	5	ug/l	95	100	81-118	5	30
Hexachlorobutadiene	1	U	1.	5	ug/l	95	96	57-124	2	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	85	90	36-118	6	30
Hexachloroethane	1	U	1.	5	ug/l	88	90	52-113	2	30
Isophorone	1	U	1.	5	ug/l	90	94	74-117	5	30
2-Methylphenol	1	U	1.	5	ug/l	74	75	64-101	3	30
4-Methylphenol	2	U	2.	5	ug/l	66	68	61-103	3	30
2-Nitroaniline	1	U	1.	5	ug/l	94	95	83-116	0	30
3-Nitroaniline	1	U	1.	5	ug/l	86	89	74-113	4	30
4-Nitroaniline	1	U	1.	5	ug/l	78	80	59-100	2	30
Nitrobenzene	1	U	1.	5	ug/l	90	96	75-109	7	30
2-Nitrophenol	1	U	1.	5	ug/l	93	97	86-120	4	30
4-Nitrophenol	10	U	10.	30	ug/l	37	38	16-78	0	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	87	88	69-110	2	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	98	102	67-136	4	30
Pentachlorophenol	3	U	3.	15	ug/l	84	87	53-110	4	30
Phenol	1	U	1.	5	ug/l	32	33	21-67	5	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	93	100	71-112	7	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	94	95	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	97	98	81-113	0	30
Batch number: 11098SLB026	Sample number(s): 6250041-6250043									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	79		70-130		
Batch number: 11098WAK026	Sample number(s): 6250044									
Acenaphthene	0.010	U	0.010	0.050	ug/l	116*	112*	74-109	3	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	107	105	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	108	104	66-111	4	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	109	105	72-114	3	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	83	80	60-127	3	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	94	90	69-123	4	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	89	85	57-131	4	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	81	79	59-130	3	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	115	106	40-138	8	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	120	117	74-131	3	30
Chrysene	0.010	U	0.010	0.050	ug/l	108	104	76-116	4	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	88	85	55-134	3	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	112	109	57-134	3	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	113	107	40-119	5	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	135	128	57-154	6	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	114	110	75-116	3	30
Fluorene	0.010	U	0.010	0.050	ug/l	114	113	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	87	84	69-124	3	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	107	103	71-117	3	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	95	93	75-115	3	30
Naphthalene	0.030	U	0.030	0.050	ug/l	100	98	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	70	70	36-89	0	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	101	98	57-145	3	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	105	101	76-111	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Pyrene	0.010	U	0.010	0.050	ug/l	103	99	69-118	4	30
Batch number: 11103SLB026	Sample number(s): 6250041-6250043									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	29		15-121		
Benzoic acid	170 U		170.	500	ug/kg	96		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	96		79-117		
Carbazole	33	U	33.	170	ug/kg	102		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	28		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	85		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	94		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	99		79-110		
Dibenzofuran	33	U	33.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	56		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	102		75-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	86		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	91		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	102		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	101		77-111		
Hexachlorobenzene	33	U	33.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	78		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	82		68-105		
Isophorone	33	U	33.	170	ug/kg	92		69-110		
2-Methylphenol	67	U	67.	170	ug/kg	96		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	104		66-117		
2-Nitroaniline	33	U	33.	170	ug/kg	102		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	86		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	95		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	95		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	100		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	82		63-107		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	100		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	78		51-117		
Phenol	33	U	33.	170	ug/kg	97		58-112		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	92		73-108		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 11103SLC026	Sample number(s): 6250041-6250043									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	97		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	76		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	89		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	75		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	113		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	107		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	86		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	120		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	86		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	47*		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	97		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		56-121		
Batch number: 11098A20A	Sample number(s): 6250045									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 11101A34A	Sample number(s): 6250041-6250043									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	82	75	67-119	9	30
Batch number: 111010012A	Sample number(s): 6250041-6250043									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	110		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	97	54-134	1	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	96	54-134	1	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
HMX	100 U		100.	300	ug/kg	100		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	109		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800 U		800.	2,400	ug/kg	115		80-120		
RDX	50	U	50.	120	ug/kg	97		75-131		
Tetryl	61	U	61.	120	ug/kg	87		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
Batch number: 111010003A	Sample number(s): 6250041-6250043									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	92	104	80-126	12	50
Batch number: 111010030A	Sample number(s): 6250044									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	82	68	35-84	19	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	88	88	51-128	0	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	104	104	56-135	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111030013A	Sample number(s): 6250041-6250043									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	75	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	103		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111040015A	Sample number(s): 6250041-6250043									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	118*		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	126*		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	128*		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	88		66-113		
Batch number: 110980006A	Sample number(s): 6250041-6250043									
Diethylene glycol	5.0	U	5.0	13	mg/kg	174*		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	176*		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	181*		75-125		
Batch number: 111010040A	Sample number(s): 6250041-6250043									
Ethanol	100 U		100.	500	ug/kg	88		71-129		
Isopropanol	100 U		100.	500	ug/kg	92		75-125		
Methanol	100 U		100.	500	ug/kg	90		68-129		
Batch number: 111030030A	Sample number(s): 6250041-6250043									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	80		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	75		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110975713001	Sample number(s): 6250044								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	94	99	80-120	5	20
Batch number: 111021026001A	Sample number(s): 6250041-6250043								
Antimony	0.0600 U	0.0600	0.200	mg/kg	177		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	101		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	105		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.162 J	0.0660	0.400	mg/kg	105		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	100		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	101		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	106		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	102		83-110		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	114		87-117		
Zinc	0.560 U	0.560	3.00	mg/kg	101		81-112		
Batch number: 111021026001B	Sample number(s): 6250041-6250043								
Selenium	0.0400 U	0.0400	0.400	mg/kg	105		83-111		
Batch number: 111021026001C	Sample number(s): 6250041-6250043								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	117		78-122		
Batch number: 111021026001D	Sample number(s): 6250041-6250043								
Barium	0.108 U	0.108	0.400	mg/kg	115*		81-111		
Batch number: 111021848002	Sample number(s): 6250044								
Aluminum	0.0834 U	0.0834	0.200	mg/l	93	92	90-112	0	20
Boron	0.0138 U	0.0138	0.0500	mg/l	95	96	89-110	1	20
Calcium	0.0702 U	0.0702	0.200	mg/l	101	101	90-112	0	20
Iron	0.183 J	0.0522	0.200	mg/l	102	101	90-112	2	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	97	97	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	100	100	89-110	0	20
Manganese	0.0011 J	0.00084	0.0050	mg/l	100	101	90-110	1	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	99	100	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	96	96	85-115	0	20
Sodium	0.433 U	0.433	1.00	mg/l	94	95	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	101	102	90-110	0	20
Tin	0.0098 U	0.0098	0.0200	mg/l	96	96	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	99	99	90-113	1	20
Zirconium	0.0209 J	0.0206	0.0500	mg/l	100	100	80-120	1	20
Batch number: 111025708001	Sample number(s): 6250041-6250043								
Aluminum	29.3	5.03	20.0	mg/kg	89		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	91		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	105		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	103		61-110		
Lithium	0.33 J	0.22	2.0	mg/kg	98		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	100		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	103		89-112		
Phosphorus	1.22 J	0.560	10.0	mg/kg	99		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3 U	37.3	100	mg/kg	98		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	101		86-110		
Tin	1.28 J	1.00	10.0	mg/kg	104		90-114		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Titanium	0.380 U	0.380	1.00	mg/kg	96		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	105		80-120		
Batch number: 111025711002	Sample number(s): 6250041-6250043								
Mercury	0.0028 U	0.0028	0.0978	mg/kg	95		88-123		
Batch number: 111026050003A	Sample number(s): 6250044								
Antimony	0.00030 U	0.00030	0.0010	mg/l	102	103	87-110	1	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	93	108	86-111	16	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	104	101	90-112	3	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	106	103	90-114	3	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	102	100	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	102	102	87-113	0	20
Copper	0.00038 U	0.00038	0.0020	mg/l	102	103	90-113	1	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	99	98	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	105	104	90-113	1	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	102	102	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	96	102	89-116	6	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	103	101	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	99	105	90-116	6	20
Batch number: 111026050003B	Sample number(s): 6250044								
Selenium	0.00025 U	0.00025	0.0020	mg/l	102	103	85-114	0	20
Batch number: 111026050003C	Sample number(s): 6250044								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	100	99	89-115	1	20
Batch number: 111026050003D	Sample number(s): 6250044								
Barium	0.00053 U	0.00053	0.0020	mg/l	103	100	88-113	3	20
Batch number: 11096130402B	Sample number(s): 6250044								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	98	103	90-110	4	20
Batch number: 11101101201A	Sample number(s): 6250041-6250043								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11102102201B	Sample number(s): 6250041-6250043								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11105105201B	Sample number(s): 6250041-6250043								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	100		90-110		
Batch number: 11107243201A	Sample number(s): 6250041-6250043								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	98		80-120		
Batch number: 11108196601C	Sample number(s): 6250044								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	105	90-110	5	20
Batch number: 11115196701A	Sample number(s): 6250044								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	90	96	85-115	6	20
Batch number: 11101039401A	Sample number(s): 6250041-6250043								
18a pH by 9045C					99		95-105		
Batch number: 11101182103A	Sample number(s): 6250041-6250043								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
32a OR Potential					99		98-102		
Batch number: 11109162401A	Sample number(s): 6250041-6250043								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11098SLB026	Sample number(s): 6250041-6250043 UNSPK: P244296								
N-Nitrosodimethylamine	71	75	70-130	6	30				
Batch number: 11103SLB026	Sample number(s): 6250041-6250043 UNSPK: P255761								
Aniline	62	61	35-95	1	30				
Benzidine	15*	21*	35-141	37*	30				
Benzoic acid	96	79	10-173	19	30				
Benzyl alcohol	92	90	67-115	1	30				
4-Bromophenyl-phenylether	91	87	67-129	4	30				
Carbazole	97	93	64-120	4	30				
4-Chloro-3-methylphenol	98	94	76-110	3	30				
4-Chloroaniline	42	44	23-95	6	30				
bis(2-Chloroethoxy)methane	93	88	75-104	4	30				
bis(2-Chloroethyl)ether	90	85	60-116	5	30				
bis(2-Chloroisopropyl)ether	82	80	55-142	2	30				
2-Chloronaphthalene	93	88	50-141	4	30				
2-Chlorophenol	96	95	73-121	1	30				
4-Chlorophenyl-phenylether	95	90	80-109	5	30				
Dibenzofuran	96	93	71-112	3	30				
1,2-Dichlorobenzene	79	79	66-108	0	30				
1,3-Dichlorobenzene	79	77	63-109	2	30				
1,4-Dichlorobenzene	80	78	70-100	2	30				
3,3'-Dichlorobenzidine	74	72	16-119	3	30				
2,4-Dichlorophenol	99	96	78-117	3	30				
2,4-Dimethylphenol	94	94	78-110	0	30				
3,5-Dimethylphenol	99	95	70-130	4	30				
4,6-Dinitro-2-methylphenol	62	50	24-116	21	30				
2,4-Dinitrophenol	57	37	20-143	41*	30				
2,4-Dinitrotoluene	98	92	73-113	7	30				
2,6-Dinitrotoluene	97	91	69-123	6	30				
1,2-Diphenylhydrazine	98	95	71-129	3	30				
Hexachlorobenzene	93	89	77-114	4	30				
Hexachlorobutadiene	85	79	62-120	7	30				
Hexachlorocyclopentadiene	54	43	10-153	24	30				
Hexachloroethane	77	75	57-109	2	30				
Isophorone	92	86	73-102	6	30				
2-Methylphenol	95	96	75-111	1	30				
4-Methylphenol	103	101	71-111	2	30				
2-Nitroaniline	99	96	67-125	3	30				
3-Nitroaniline	92	88	59-122	4	30				
4-Nitroaniline	73	78	52-112	7	30				
Nitrobenzene	93	88	72-106	5	30				

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Quality Control Summary

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Reported: 05/18/11 at 11:42 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitrophenol	92	86	74-115	6	30				
4-Nitrophenol	95	90	54-113	5	30				
N-Nitroso-di-n-propylamine	74	83	60-116	13	30				
N-Nitrosodiphenylamine	97	95	86-145	2	30				
Pentachlorophenol	75	73	28-127	2	30				
Phenol	96	93	58-126	2	30				
1,2,4-Trichlorobenzene	90	85	72-115	5	30				
2,4,5-Trichlorophenol	97	95	78-109	2	30				
2,4,6-Trichlorophenol	97	92	77-115	5	30				
Batch number: 11103SLC026	Sample number(s): 6250041-6250043 UNSPK: P255761								
Acenaphthene	97	138*	63-105	34*	30				
Acenaphthylene	96	110	67-114	13	30				
Anthracene	100	145*	60-122	34*	30				
Benzo(a)anthracene	94	89	59-128	6	30				
Benzo(a)pyrene	75	74	45-138	3	30				
Benzo(b)fluoranthene	89	81	43-155	10	30				
Benzo(g,h,i)perylene	77	11*	33-141	59*	30				
Benzo(k)fluoranthene	73	75	42-144	1	30				
Butylbenzylphthalate	119	115	57-173	4	30				
Di-n-butylphthalate	87	88	65-148	1	30				
Chrysene	94	91	48-134	4	30				
Dibenz(a,h)anthracene	83	82	22-133	2	30				
Diethylphthalate	78	79	70-136	0	30				
Dimethylphthalate	97	102	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	102	104	39-167	0	30				
Fluoranthene	107	111	26-166	2	30				
Fluorene	93	120	66-122	24	30				
Indeno(1,2,3-cd)pyrene	76	57	21-143	20	30				
1-Methylnaphthalene	93	135*	72-123	36*	30				
2-Methylnaphthalene	82	99	64-103	18	30				
Naphthalene	89	113*	61-102	23	30				
N-Nitrosodimethylamine	52	49	48-113	5	30				
Di-n-octylphthalate	93	89	40-192	6	30				
Phenanthrene	92	117	12-165	22	30				
Pyrene	102	90	15-153	10	30				
Batch number: 11101A34A	Sample number(s): 6250041-6250043 UNSPK: P255761								
9a TPH by EPA 8015B Gas C5-C12	55	72	39-118	26	30				
Batch number: 111010012A	Sample number(s): 6250041-6250043 UNSPK: P245566								
4-Amino-2,6-Dinitrotoluene	109	109	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	110	110	80-137	1	50				
1,3-Dinitrobenzene	108	108	38-166	0	50				
2,4-Dinitrotoluene	106	106	80-131	0	50				
2,6-Dinitrotoluene	106	108	80-127	1	50				
HMX	98	99	63-128	1	50				
Nitrobenzene	104	103	80-125	1	50				
Nitroglycerin	95	96	80-120	0	50				
2-Nitrotoluene	104	106	80-122	1	50				
3-Nitrotoluene	108	109	72-119	1	50				
4-Nitrotoluene	106	106	80-125	0	50				
PETN	115	116	80-121	0	50				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
RDX	93	93	75-129	0	50				
Tetryl	84	87	55-174	3	50				
1,3,5-Trinitrobenzene	108	108	82-126	1	50				
2,4,6-Trinitrotoluene	109	110	82-130	1	50				
Batch number: 111010003A	Sample number(s): 6250041-6250043 UNSPK: 6250041								
25a Formaldehyde 8315A	90	87	80-120	3	50				
Batch number: 111030013A	Sample number(s): 6250041-6250043 UNSPK: P245566								
PCB-1016	76	67	29-146	13	50				
PCB-1260	85	75	39-149	12	50				
Batch number: 111040015A	Sample number(s): 6250041-6250043 UNSPK: P255761								
EFH (C12-C14)	274*	119	49-123	79*	20				
EFH (C15-C20)	210*	119	49-123	45*	20				
EFH (C21-C30)	142*	140*	49-123	1	20				
EFH (C30 - C40)	143*	121	49-123	14	20				
EFH (C8-C11)	127*	95	49-123	29*	20				
Batch number: 110980006A	Sample number(s): 6250041-6250043 UNSPK: 6250041								
Diethylene glycol	76	80	59-109	4	20				
Ethylene glycol	82	83	63-107	1	20				
Propylene glycol	85	84	63-107	1	20				
Batch number: 111010040A	Sample number(s): 6250041-6250043 UNSPK: P251858								
Ethanol	73	72	48-130	2	20				
Isopropanol	77	77	12-149	1	20				
Methanol	74	73	43-138	1	20				
Batch number: 111030030A	Sample number(s): 6250041-6250043 UNSPK: 6250041								
m-Terphenyl	78	78	75-125	0	20				
o-Terphenyl	90	90	75-125	0	20				
p-Terphenyl	74*	74*	75-125	0	20				
Batch number: 111021026001A	Sample number(s): 6250041-6250043 UNSPK: P255761 BKG: P255761								
Antimony	90	73*	75-125	16	20	0.0837 J	0.150 J	57* (1)	20
Arsenic	126*	122	75-125	0	20	2.59	2.44	6	20
Beryllium	117	110	75-125	2	20	0.428	0.430	0 (1)	20
Cadmium	123	107	75-125	10	20	0.141	0.170	18 (1)	20
Chromium	131*	127*	75-125	0	20	12.6	12.7	1	20
Cobalt	112	101	75-125	7	20	4.55	4.69	3	20
Copper	133*	124	75-125	2	20	8.73	9.43	8	20
Lead	151*	150*	75-125	1	20	4.19	4.36	4	20
Nickel	134*	127*	75-125	2	20	8.70	8.75	1	20
Silver	110	101	75-125	6	20	0.0239 J	0.0237 J	1 (1)	20
Thallium	133*	112	75-125	10	20	0.215	0.245	13 (1)	20
Vanadium	160*	177*	75-125	5	20	22.7	24.3	7	20
Zinc	180 (2)	185 (2)	75-125	2	20	45.9	47.7	4	20
Batch number: 111021026001B	Sample number(s): 6250041-6250043 UNSPK: P255761 BKG: P255761								
Selenium	108	97	75-125	7	20	0.104 J	0.0963 J	8 (1)	20
Batch number: 111021026001C	Sample number(s): 6250041-6250043 UNSPK: P255761 BKG: P255761								

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Molybdenum	112	100	75-125	8	20	0.355	0.441	21* (1)	20
Batch number: 111021026001D	Sample number(s): 6250041-6250043 UNSPK: P255761 BKG: P255761								
Barium	311 (2)	98 (2)	75-125	17	20	96.3	97.8	2	20
Batch number: 111025708001	Sample number(s): 6250041-6250043 UNSPK: P255761 BKG: P255761								
Aluminum	2160 (2)	1678 (2)	75-125	6	20	12,700	12,000	5	20
Boron	95	96	84-115	2	20	2.32 J	2.52 J	9 (1)	20
Calcium	135 (2)	136 (2)	75-125	0	20	1,900	1,800	6	20
Iron	373 (2)	-1674 (2)	75-125	12	20	17,900	15,800	12	20
Lithium	103	104	82-114	1	20	17.3	16.7	4	20
Magnesium	205 (2)	125 (2)	75-125	4	20	3,430	3,270	5	20
Manganese	115 (2)	95 (2)	75-125	4	20	225	218	3	20
Phosphorus	73*	52*	75-125	6	20	289	261	10	20
Potassium	120	135*	75-125	4	20	2,920	3,000	3	20
Sodium	98	98	75-125	0	20	113	108	5 (1)	20
Strontium	97	98	75-115	1	20	18.7	17.5	6	20
Tin	89	90	80-110	1	20	2.53 J	2.42 J	5 (1)	20
Titanium	265 (2)	262 (2)	75-125	0	20	1,010	986	2	20
Zirconium	98	100	75-125	2	20	4.09 J	3.25 J	23* (1)	20
Batch number: 111025711002	Sample number(s): 6250041-6250043 UNSPK: P255761 BKG: P255761								
Mercury	93	94	65-135	2	20	0.0028 U	0.0027 U	0 (1)	20
Batch number: 11101101201A	Sample number(s): 6250041-6250043 UNSPK: P247206 BKG: P247206								
7a Perchlorate EPA 314.0	97		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11102102201B	Sample number(s): 6250041-6250043 UNSPK: P245570 BKG: P245570								
17a Cyanide by 9012B	115		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11105105201B	Sample number(s): 6250041-6250043 UNSPK: 6250041 BKG: 6250041								
11a Anions by 300.0 - Fluoride	67*		80-120			2.2	2.3	3 (1)	20
11a Anions by 300.0 - Nitrate	103		80-120			1.2 J	0.95 J	22* (1)	20
Batch number: 11107243201A	Sample number(s): 6250041-6250043 UNSPK: P245568 BKG: P245568								
3a Cr VI by EPA 7199	92		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11101039401A	Sample number(s): 6250041-6250043 BKG: P248206								
18a pH by 9045C						7.33	7.35	0	1
Batch number: 11101182103A	Sample number(s): 6250041-6250043 BKG: P248206								
32a OR Potential						272	268	1	6
Batch number: 11109162401A	Sample number(s): 6250041-6250043 BKG: P251858								
Moisture Content by 160.3						11.5	11.6	1	20

Surrogate Quality Control

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110972AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6250041	96	94	100	91
6250042	96	95	99	91
6250043	97	96	99	90
Blank	98	102	99	91
LCS	98	98	102	97
LCSD	97	101	102	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110981AA

	Toluene-d8
6250044	100
6250045	101
Blank	101
LCS	101
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110982AA

	Toluene-d8
6250041	97
6250042	98
6250043	97
Blank	98
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111011AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6250044	102	101	101	95
6250045	102	102	102	94
Blank	102	101	101	95
LCS	103	103	100	97
LCSD	103	105	100	96
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11097WAD026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Surrogate Quality Control

6250044	49	27	92	87	91	81
Blank	59	34	97	94	97	85
LCS	56	33	92	91	96	82
LCSD	56	33	90	91	96	83
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11098SLB026

	N-Nitrosodimethylamine-d6
6250041	109
6250042	98
6250043	108
Blank	99
LCS	108
MS	115
MSD	112
Limits:	50-150

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11098WAK026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6250044	95	94	101
Blank	92	99	105
LCS	99	100	98
LCSD	96	99	96
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11103SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6250041	75	78	84	70	70	67
6250042	94	98	107	89	88	86
6250043	106	106	101	90	91	91
Blank	88	94	90	87	87	79
LCS	96	99	103	90	92	87
MS	92	95	94	88	87	87
MSD	91	93	92	83	83	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11103SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6250041	99	92	110
6250042	94	91	103
6250043	94	89	99
Blank	102	99	118
LCS	97	93	103
MS	98	89	108

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Surrogate Quality Control

MSD	99	94	114
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11098A20A

	Trifluorotoluene-F
6250045	85
Blank	82
LCS	116
LCSD	118
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11101A34A

	Trifluorotoluene-F
6250041	71
6250042	73
6250043	72
Blank	85
LCS	98
LCSD	91
MS	74
MSD	83
Limits:	61-122

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111010003A

	Butyraldehyde
6250041	83
6250042	80
6250043	79
Blank	76
LCS	92
LCSD	98
MS	85
MSD	82
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111010012A

	2-Nitro-m-xylene
6250041	131
6250042	133
6250043	134
Blank	132
LCS	136
LCSD	133
MS	130
MSD	126

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Surrogate Quality Control

Limits: 80-146

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111010030A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6250044	84	92
Blank	89	127*
LCS	87	95
LCSD	85	100
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111030013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6250041	74	110
6250042	75	90
6250043	88	86
Blank	90	108
LCS	80	103
LCSD	76	96
MS	79	66
MSD	73	65
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110980006A

	Tetramethylene glycol
6250041	54
6250042	61
6250043	70
Blank	155*
LCS	159*
MS	90
MSD	81
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111010040A

	Acetone
6250041	90
6250042	88
6250043	91
Blank	114
LCS	112
MS	93
MSD	92
Limits:	42-138

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240656
Reported: 05/18/11 at 11:42 AM

Surrogate Quality Control

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111030030A

	n-Triacontane-d62
6250041	74
6250042	75
6250043	75
Blank	76
LCS	76
MS	76
MSD	74
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111040015A

	Chlorobenzene	Orthoterphenyl
6250041	81	104
6250042	89	103
6250043	86	100
Blank	95	106
LCS	95	110
MS	86	108
MSD	93	117
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1240656 6250041-45

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	TPH-DRO EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-154-SA5A-SB-4.5	04.05.11	1110	SOIL	NONE	5-Encores										X	X	X										
SL-154-SA5A-SB-4.0-5.0	04.05.11	1115	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-154-SA5A-SB-7.5	04.05.11	1118	SOIL	NONE	5-Encores										X	X	X										
SL-154-SA5A-SB-7.0-8.0	04.05.11	1122	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-156-SA5A-SB-3.5	04.05.11	0930	SOIL	NONE	5-Encores										X	X	X										
SL-156-SA5A-SB-3.0-4.0	04.05.11	0934	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB11-SA5A-SB-040511	04.05.11	1450	WATER	NONE	5-1L amber bottles			X	X	X																	
EB11-SA5A-SB-040511	04.05.11	1450	WATER	HCl	6-40mL VOA vials										X	X											
EB11-SA5A-SB-040511	04.05.11	1450	WATER	NONE	1-500mL poly		X				X	X	X														
EB11-SA5A-SB-040511	04.05.11	1450	WATER	HNO3	1-500mL poly	X																					
TB-040511	04.05.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time 04/05/2011 / 1700	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 4/6/11 / 0900	Airbill No.(s) 8695 1367 6190,6205	

May 18, 2011

Mr. Todd Burgesser
CDM
Suite 1100, 555 17th Street
Denver, CO 80202

Dear Mr. Burgesser:

I am writing to inform you of revised analytical reports that are being issued for the following:

Project No. SSFL Area IV Collocated Soil Sampling

Group No. 1240656 **SDG: DE119**

LLI Sample No.	Client Sample Identification	Collection Date
6250041	SL-154-SA5A-SB-4.0-5.0 Soil	04/05/2011
6250042	SL-154-SA5A-SB-7.0-8.0 Soil	04/05/2011
6250043	SL-156-SA5A-SB-3.0-4.0 Soil	04/05/2011

The correction to the data affects the barium analysis only.

During data package review, it was noted that the barium Laboratory Control Sample was out of specification high for these samples. It was missed due to the acceptance window being incorrect with a range of 81% to 980%. The Laboratory Control Sample range has been corrected to 81% to 111% on the QC Summary and a comment has been added to the samples with results greater than the reporting limit.

The revised analytical report reflects this correction and is enclosed.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1923. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,

Jennifer L. Moyer
Senior Specialist
Metals

JLM/mcs
Enclosures

cc: Nicole Maljovec

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 05, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/06/2011
Group Number: 1240658
SDG: DX066
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-154-SA5A-SB-4.0-5.0 Soil	6250047
SL-154-SA5A-SB-7.0-8.0 Soil	6250048
SL-156-SA5A-SB-3.0-4.0 Soil	6250049
EB11-SA5A-SB-040511 Water	6250050

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-154-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-4.0-5.0

LLI Sample # SW 6250047
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:15

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1544 SDG#: DX066-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-154-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-4.0-5.0

LLI Sample # SW 6250047
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:15

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1544 SDG#: DX066-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0344 JQ	0.0229	1.17	1
11031	12378-PeCDD	40321-76-4	0.0768 JBQ	0.0263	5.84	1
11031	123478-HxCDD	39227-28-6	0.0537 JQ	0.0212	5.84	1
11031	123678-HxCDD	57653-85-7	0.0975 JBQ	0.0229	5.84	1
11031	123789-HxCDD	19408-74-3	0.0588 JB	0.0212	5.84	1
11031	1234678-HpCDD	35822-46-9	0.407 JBQ	0.0229	5.84	1
11031	OCDD	3268-87-9	0.868 JB	0.0232	11.7	1
11031	2378-TCDF	51207-31-9	0.0243 U	0.0243	1.17	1
11031	12378-PeCDF	57117-41-6	0.143 JB	0.0112	5.84	1
11031	23478-PeCDF	57117-31-4	0.146 JBQ	0.0125	5.84	1
11031	123478-HxCDF	70648-26-9	0.0936 JBQ	0.0196	5.84	1
11031	123678-HxCDF	57117-44-9	0.115 JBQ	0.0153	5.84	1
11031	123789-HxCDF	72918-21-9	0.0986 JB	0.0220	5.84	1
11031	234678-HxCDF	60851-34-5	0.112 JBQ	0.0153	5.84	1
11031	1234678-HpCDF	67562-39-4	0.220 JB	0.00982	5.84	1
11031	1234789-HpCDF	55673-89-7	0.0927 JBQ	0.0198	5.84	1
11031	OCDF	39001-02-0	0.321 JB	0.0301	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-154-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-4.0-5.0

LLI Sample # SW 6250047
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:15

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1544 SDG#: DX066-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-154-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-4.0-5.0

LLI Sample # SW 6250047
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:15

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1544 SDG#: DX066-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105001	04/19/2011 00:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11105001	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-154-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-7.0-8.0

LLI Sample # SW 6250048
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:22

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1547 SDG#: DX066-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-154-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-7.0-8.0

LLI Sample # SW 6250048
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:22

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1547 SDG#: DX066-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0155 U	0.0155	1.18	1
11031	12378-PeCDD	40321-76-4	0.0304 JBQ	0.0198	5.89	1
11031	123478-HxCDD	39227-28-6	0.0189 JB	0.0136	5.89	1
11031	123678-HxCDD	57653-85-7	0.0206 JBQ	0.0133	5.89	1
11031	123789-HxCDD	19408-74-3	0.0206 JB	0.0124	5.89	1
11031	1234678-HpCDD	35822-46-9	0.263 JB	0.0194	5.89	1
11031	OCDD	3268-87-9	0.896 JB	0.0371	11.8	1
11031	2378-TCDF	51207-31-9	0.0133 U	0.0133	1.18	1
11031	12378-PeCDF	57117-41-6	0.0267 JBQ	0.00945	5.89	1
11031	23478-PeCDF	57117-31-4	0.0624 JBQ	0.00921	5.89	1
11031	123478-HxCDF	70648-26-9	0.0455 JB	0.0179	5.89	1
11031	123678-HxCDF	57117-44-9	0.0317 JBQ	0.0125	5.89	1
11031	123789-HxCDF	72918-21-9	0.0603 JB	0.0109	5.89	1
11031	234678-HxCDF	60851-34-5	0.107 JB	0.00968	5.89	1
11031	1234678-HpCDF	67562-39-4	0.154 JB	0.0176	5.89	1
11031	1234789-HpCDF	55673-89-7	0.0487 JBQ	0.0162	5.89	1
11031	OCDF	39001-02-0	0.206 JBQ	0.0230	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	62	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	56	24 - 185
13C12-23478-PeCDF	52	21 - 178
13C12-123478-HxCDF	30	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	54	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	41	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-154-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-7.0-8.0

LLI Sample # SW 6250048
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:22

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1547 SDG#: DX066-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-154-SA5A-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5A-SB-7.0-8.0

LLI Sample # SW 6250048
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 11:22

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1547 SDG#: DX066-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11102002	04/14/2011 15:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11102002	04/12/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-156-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5A-SB-3.0-4.0

LLI Sample # SW 6250049
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 09:34

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1563 SDG#: DX066-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-156-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5A-SB-3.0-4.0

LLI Sample # SW 6250049
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 09:34

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1563 SDG#: DX066-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0195	U	0.0195	1.11	1
11031	12378-PeCDD	40321-76-4	0.180	JBQ	0.0308	5.55	1
11031	123478-HxCDD	39227-28-6	0.282	JQ	0.0371	5.55	1
11031	123678-HxCDD	57653-85-7	0.798	JB	0.0382	5.55	1
11031	123789-HxCDD	19408-74-3	0.398	JB	0.0354	5.55	1
11031	1234678-HpCDD	35822-46-9	27.2	B	0.0744	5.55	1
11031	OCDD	3268-87-9	524	B	0.0581	11.1	1
11031	2378-TCDF	51207-31-9	0.0347	U	0.0347	1.11	1
11031	12378-PeCDF	57117-41-6	0.260	JB	0.0186	5.55	1
11031	23478-PeCDF	57117-31-4	0.262	JBQ	0.0198	5.55	1
11031	123478-HxCDF	70648-26-9	0.475	JB	0.0290	5.55	1
11031	123678-HxCDF	57117-44-9	0.285	JB	0.0249	5.55	1
11031	123789-HxCDF	72918-21-9	0.196	JBQ	0.0343	5.55	1
11031	234678-HxCDF	60851-34-5	0.342	JB	0.0277	5.55	1
11031	1234678-HpCDF	67562-39-4	3.99	JB	0.0200	5.55	1
11031	1234789-HpCDF	55673-89-7	0.553	JBQ	0.0371	5.55	1
11031	OCDF	39001-02-0	8.59	JB	0.0271	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-156-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5A-SB-3.0-4.0

LLI Sample # SW 6250049
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 09:34

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1563 SDG#: DX066-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-156-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5A-SB-3.0-4.0

LLI Sample # SW 6250049
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 09:34

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1563 SDG#: DX066-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105001	04/19/2011 01:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11105001	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB11-SA5A-SB-040511 Water**
SSFL Area IV Collocated Soil Sampling
EB11-SA5A-SB-040511

LLI Sample # WW 6250050
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 14:50

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB11 SDG#: DX066-14EB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.139	U	0.139	2.11	1
10915	12378-PeCDD	40321-76-4	0.475	JBQ	0.173	10.5	1
10915	123478-HxCDD	39227-28-6	0.284	JB	0.142	10.5	1
10915	123678-HxCDD	57653-85-7	0.628	JB	0.144	10.5	1
10915	123789-HxCDD	19408-74-3	0.425	JBQ	0.135	10.5	1
10915	1234678-HpCDD	35822-46-9	4.01	JB	0.244	10.5	1
10915	OCDD	3268-87-9	13.4	JB	0.420	21.1	1
10915	2378-TCDF	51207-31-9	0.124	JBQ	0.122	2.11	1
10915	12378-PeCDF	57117-41-6	0.362	JBQ	0.0785	10.5	1
10915	23478-PeCDF	57117-31-4	1.12	JB	0.0756	10.5	1
10915	123478-HxCDF	70648-26-9	0.667	JBQ	0.147	10.5	1
10915	123678-HxCDF	57117-44-9	0.779	JB	0.121	10.5	1
10915	123789-HxCDF	72918-21-9	0.531	JB	0.123	10.5	1
10915	234678-HxCDF	60851-34-5	1.86	JB	0.110	10.5	1
10915	1234678-HpCDF	67562-39-4	3.70	JB	0.159	10.5	1
10915	1234789-HpCDF	55673-89-7	0.773	JB	0.195	10.5	1
10915	OCDF	39001-02-0	2.68	JB	0.280	21.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB11-SA5A-SB-040511 Water**
SSFL Area IV Collocated Soil Sampling
EB11-SA5A-SB-040511

LLI Sample # WW 6250050
LLI Group # 1240658
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/05/2011 14:50

Submitted: 04/06/2011 09:00
Reported: 05/05/2011 17:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB11 SDG#: DX066-14EB

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11102001	04/15/2011 04:48	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11102001	04/12/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240658
Reported: 05/05/11 at 05:24 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11109162401A	Sample number(s): 6250047-6250049									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11102001	Sample number(s): 6250050									
2378-TCDD	0.462	J	0.151	2.00	pg/l	96		67-158		
12378-PeCDD	0.461	J	0.164	10.0	pg/l	99		70-142		
123478-HxCDD	0.308	J	0.127	10.0	pg/l	101		70-164		
123678-HxCDD	0.634	J	0.130	10.0	pg/l	100		76-134		
123789-HxCDD	0.692	J	0.124	10.0	pg/l	99		64-162		
1234678-HpCDD	3.40	J	0.224	10.0	pg/l	102		70-140		
OCDD	8.12	J	0.405	20.0	pg/l	109		78-144		
2378-TCDF	0.143	J	0.132	2.00	pg/l	97		75-158		
12378-PeCDF	0.304	J	0.0897	10.0	pg/l	97		80-134		
23478-PeCDF	1.10	J	0.0880	10.0	pg/l	98		68-160		
123478-HxCDF	0.872	J	0.161	10.0	pg/l	102		72-134		
123678-HxCDF	0.989	J	0.150	10.0	pg/l	102		84-130		
123789-HxCDF	0.654	J	0.167	10.0	pg/l	100		78-130		
234678-HxCDF	1.63	J	0.143	10.0	pg/l	101		70-156		
1234678-HpCDF	5.27	J	0.175	10.0	pg/l	105		82-122		
1234789-HpCDF	1.10	J	0.225	10.0	pg/l	103		78-138		
OCDF	3.33	J	0.304	20.0	pg/l	108		63-170		
Batch number: 11102002	Sample number(s): 6250048									
2378-TCDD	0.0239	J	0.0125	1.00	ng/kg	89		67-158		
12378-PeCDD	0.0307	J	0.0130	5.00	ng/kg	90		70-142		
123478-HxCDD	0.0273	J	0.0122	5.00	ng/kg	89		70-164		
123678-HxCDD	0.0220	J	0.0115	5.00	ng/kg	87		76-134		
123789-HxCDD	0.0366	J	0.00980	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.196	J	0.0170	5.00	ng/kg	88		70-140		
OCDD	1.15	J	0.0332	10.0	ng/kg	88		78-144		
2378-TCDF	0.0120	J	0.0102	1.00	ng/kg	89		75-158		
12378-PeCDF	0.0371	J	0.00670	5.00	ng/kg	87		80-134		
23478-PeCDF	0.0831	J	0.00670	5.00	ng/kg	88		68-160		
123478-HxCDF	0.0690	J	0.0225	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0643	J	0.0160	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0560	J	0.00880	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0978	J	0.00820	5.00	ng/kg	91		70-156		
1234678-HpCDF	0.128	J	0.0146	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0709	J	0.0106	5.00	ng/kg	90		78-138		
OCDF	0.231	J	0.0183	10.0	ng/kg	89		63-170		
Batch number: 11105001	Sample number(s): 6250047,6250049									
2378-TCDD	0.0188	U	0.0188	1.00	ng/kg	90		67-158		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240658
Reported: 05/05/11 at 05:24 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
12378-PeCDD	0.0338 J	0.0193	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0154 U	0.0154	5.00	ng/kg	93		70-164		
123678-HxCDD	0.0256 J	0.0164	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0539 J	0.0154	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.347 J	0.0204	5.00	ng/kg	92		70-140		
OCDD	0.581 J	0.0180	10.0	ng/kg	91		78-144		
2378-TCDF	0.0204 U	0.0204	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0319 J	0.00940	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0552 J	0.0105	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0467 J	0.0140	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0341 J	0.0107	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0443 J	0.0163	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0734 J	0.0120	5.00	ng/kg	90		70-156		
1234678-HpCDF	0.160 J	0.00650	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.108 J	0.0135	5.00	ng/kg	92		78-138		
OCDF	0.263 J	0.0245	10.0	ng/kg	90		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11109162401A	Sample number(s): 6250047-6250049					BKG: P251858			
Moisture Content by 160.3						11.5	11.6	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11102001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6250050	79	71	55	63	69	69
Blank	74	66	61	63	64	62
OPR	81	72	53	62	72	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6250050	60	57	46	83	77	77
Blank	61	54	47	82	72	71
OPR	60	69	63	84	79	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240658
Reported: 05/05/11 at 05:24 PM

Surrogate Quality Control

6250050	74	77	71	62	74	71
Blank	69	70	67	59	71	67
OPR	77	80	76	69	77	72
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11102002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6250048	64	52	30	41	54	53
Blank	88	74	28	40	76	78
OPR	72	57	22	30	64	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6250048	41	51	48	69	61	60
Blank	43	73	65	99	88	76
OPR	30	58	45	76	71	51
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6250048	62	65	64	59	55	56
Blank	82	92	89	83	76	79
OPR	60	76	71	67	66	66
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11105001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6250047	70	67	56	71	66	56
6250049	72	67	66	75	70	64
Blank	71	59	58	73	62	53
OPR	66	57	53	68	59	50
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6250047	88	53	49	88	72	72
6250049	88	59	58	85	70	75
Blank	91	50	49	90	71	78
OPR	84	47	46	87	67	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240658
Reported: 05/05/11 at 05:24 PM

Surrogate Quality Control

6250047	72	75	74	74	67	80
6250049	74	77	76	79	72	79
Blank	75	79	77	75	61	71
OPR	71	72	72	70	59	67
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1240658 6250047-50

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-154-SA5A-SB-4.5	04.05.11	1110	SOIL	NONE	5-Encores										X	X	X										
SL-154-SA5A-SB-4.0-5.0	04.05.11	1115	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-154-SA5A-SB-7.5	04.05.11	1118	SOIL	NONE	5-Encores										X	X	X										
SL-154-SA5A-SB-7.0-8.0	04.05.11	1122	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-156-SA5A-SB-3.5	04.05.11	0930	SOIL	NONE	5-Encores										X	X	X										
SL-156-SA5A-SB-3.0-4.0	04.05.11	0934	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB11-SA5A-SB-040511	04.05.11	1450	WATER	NONE	5-1L amber bottles			X	X	X																	
EB11-SA5A-SB-040511	04.05.11	1450	WATER	HCl	6-40mL VOA vials										X	X											
EB11-SA5A-SB-040511	04.05.11	1450	WATER	NONE	1-500mL poly		X				X	X	X														
EB11-SA5A-SB-040511	04.05.11	1450	WATER	HNO3	1-500mL poly	X																					
TB-040511	04.05.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 04/05/2011 / 1700 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time: 4/6/11 0900 — Airbill No.(s): 8695 1367 6190,6205

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

REVISED

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/07/2011
Group Number: 1240941
SDG: DE120
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-151-SA5A-SB-4.0-5.0 Soil	6251858
EB12-SA5A-SB-040611 Water	6251859
TB-040611 Water	6251860

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

REVISED

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Max E. Snavely
Senior Specialist

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-151-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5A-SB-4.0-5.0

LLI Sample # SW 6251858
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:20

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL151 SDG#: DE120-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.5		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.83
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.83
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.8		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.5		0.83
06192	Methylene Chloride	75-09-2	2.1	J	0.23	3.8		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.83

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Sample Description: SL-151-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5A-SB-4.0-5.0

LLI Sample # SW 6251858
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:20

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL151 SDG#: DE120-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.8		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.8
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.7	U	18.7	37.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Sample Description: SL-151-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5A-SB-4.0-5.0

LLI Sample # SW 6251858
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:20

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL151 SDG#: DE120-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	9.7	J	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	7.9	J	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-151-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5A-SB-4.0-5.0

LLI Sample # SW 6251858
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:20

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL151 SDG#: DE120-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.26
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1

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Sample Description: SL-151-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5A-SB-4.0-5.0

LLI Sample # SW 6251858
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:20

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL151 SDG#: DE120-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	J	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.87	J	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1

The recoveries for target analytes in the LCS are outside the QC acceptance limits noted on the QC summary. The sample was re-extracted outside the method hold time. QC results from the re-extraction are within the limits. All results are reported from the original extract. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

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Sample Description: SL-151-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5A-SB-4.0-5.0

LLI Sample # SW 6251858
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:20

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL151 SDG#: DE120-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		5.68	22.6		1
07914	Boron	7440-42-8	1.01	U	1.01	5.65		1
01650	Calcium	7440-70-2	2,150		6.93	22.6		1
01654	Iron	7439-89-6	21,700		5.32	22.6		1
01656	Lithium	7439-93-2	24.4		0.25	2.3		1
01657	Magnesium	7439-95-4	4,400		2.87	11.3		1
06958	Manganese	7439-96-5	368		0.0881	0.565		1
10145	Phosphorus	7723-14-0	276		0.633	11.3		1
01662	Potassium	7440-09-7	2,370		20.3	56.5		1
01667	Sodium	7440-23-5	117		42.1	113		1
07968	Strontium	7440-24-6	19.2		0.0701	0.565		1
06969	Tin	7440-31-5	3.08	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,190		0.429	1.13		1
10146	Zirconium	7440-67-7	4.08	J	0.949	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.122	J	0.0652	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.57		0.0869	0.435		2
06126	Barium	7440-39-3	103		0.117	0.435		2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.							
06127	Beryllium	7440-41-7	0.811		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0565	J	0.0435	0.109		2
06131	Chromium	7440-47-3	17.1		0.130	0.435		2
06132	Cobalt	7440-48-4	7.25		0.0217	0.109		2
06133	Copper	7440-50-8	6.73		0.0717	0.435		2
06135	Lead	7439-92-1	5.76		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.720		0.0543	0.109		2
06139	Nickel	7440-02-0	12.4		0.109	0.435		2
06141	Selenium	7782-49-2	0.0837	J	0.0435	0.435		2
06142	Silver	7440-22-4	0.0485	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.306		0.0326	0.109		2
06148	Vanadium	7440-62-2	36.3		0.0239	0.109		2
06149	Zinc	7440-66-6	49.5		0.608	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-151-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5A-SB-4.0-5.0

LLI Sample # SW 6251858
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:20

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL151 SDG#: DE120-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.3		0.90	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	309		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-151-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111021AA	04/12/2011	16:39	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110982AA	04/08/2011	23:13	Sara E Johnson	20.8
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109724039	04/07/2011	18:10	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-151-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5A-SB-4.0-5.0

LLI Sample # SW 6251858
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:20

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL151 SDG#: DE120-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109724039	04/07/2011 18:14	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109724039	04/07/2011 18:14	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109724039	04/07/2011 18:08	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/20/2011 13:51	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 15:22	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/14/2011 22:06	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11101A34A	04/11/2011 14:57	Elizabeth J Marin	19.26
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109724039	04/07/2011 18:07	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111010012A	04/13/2011 20:14	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111010003A	04/13/2011 23:08	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111030013A	04/15/2011 07:29	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111030013A	04/13/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111010003A	04/11/2011 18:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111010012A	04/11/2011 16:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111040015A	04/19/2011 22:59	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111010040A	04/11/2011 22:05	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110980006A	04/11/2011 19:16	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111030030A	04/19/2011 19:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111040015A	04/14/2011 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111030030A	04/14/2011 12:15	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111010040A	04/11/2011 18:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	110980006A	04/08/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 08:21	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 08:21	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 08:21	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 17:29	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 08:21	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 08:21	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 08:21	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 08:21	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 08:21	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 08:21	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 08:21	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 08:21	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 08:21	Damary Valentin	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-151-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5A-SB-4.0-5.0

LLI Sample # SW 6251858
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:20

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL151 SDG#: DE120-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 08:21	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 09:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 09:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 09:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11105105201B	04/16/2011 13:41	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11105105201B	04/16/2011 13:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201A	04/25/2011 22:26	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11107243201A	04/19/2011 05:28	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201B	04/13/2011 21:07	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11105105201B	04/15/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201A	04/11/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201B	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11101182103A	04/11/2011 14:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11101039401A	04/11/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: **EB12-SA5A-SB-040611 Water**
SSFL Area IV Collocated Soil Sampling
EB12-SA5A-SB-040611

LLI Sample # WW 6251859
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:40

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-12 SDG#: DE120-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.730	J	0.514	1.03		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of .5 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the sample. The data reported here is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.63	U	0.63	0.63	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
	Reporting limits were raised due to interference from the sample matrix.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB12-SA5A-SB-040611 Water**
SSFL Area IV Collocated Soil Sampling
EB12-SA5A-SB-040611

LLI Sample # WW 6251859
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:40

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-12 SDG#: DE120-02EB

CAT No.	Analysis Name		CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics		**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A		50-00-0	10	U	10	50		1
GC Extractable TPH		**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)		n.a.	0.10	U	0.10	0.62		1
10365	EFH (C15-C20)		n.a.	0.10	U	0.10	0.62		1
10365	EFH (C21-C30)		n.a.	0.10	U	0.10	0.62		1
10365	EFH (C30 - C40)		n.a.	0.10	U	0.10	0.62		1
10365	EFH (C8-C11)		n.a.	0.10	U	0.10	0.62		1
GC Miscellaneous		**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol		64-17-5	200	U	200	1,000		1
06624	Isopropanol		67-63-0	200	U	200	1,000		1
06624	Methanol		67-56-1	200	U	200	1,000		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol		111-46-6	10	U	10	100		1
08278	Ethylene glycol		107-21-1	10	U	10	100		1
08278	Propylene glycol		57-55-6	10	U	10	100		1
Terphenyls		**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl		92-06-8	0.085	U	0.085	0.27		1
10319	o-Terphenyl		84-15-1	0.085	U	0.085	0.27		1
10319	p-Terphenyl		92-94-4	0.085	U	0.085	0.27		1
Wet Chemistry		**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate		14797-55-8	0.050	U	0.050	0.10		1
		SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B		57-12-5	0.0050	U	0.0050	0.010		1

The surrogate data is outside the QC limits for the blank, LCS/LCSD and sample. The LCS/LCSD recoveries are outside the QC limits for p-Terphenyl. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

REVISED

Sample Description: EB12-SA5A-SB-040611 Water
SSFL Area IV Collocated Soil Sampling
EB12-SA5A-SB-040611

LLI Sample # WW 6251859
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:40

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-12 SDG#: DE120-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11102WAB026	04/15/2011 12:27	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11102WAB026	04/12/2011 13:20	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11102A20A	04/12/2011 15:05	Elizabeth J Marin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11102A20A	04/12/2011 15:05	Elizabeth J Marin	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111020002A	04/14/2011 02:35	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	110970009A	04/08/2011 18:03	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	110970009A	04/08/2011 05:30	Joseph S Feister	1
11122	Energetics Extraction	SW-846 8330	1	111020002A	04/12/2011 17:00	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111010026A	04/12/2011 18:30	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111010043A	04/12/2011 00:33	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	110980005A	04/12/2011 18:58	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111020018A	04/20/2011 02:42	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111010026A	04/11/2011 21:50	Elaine F Stoltzfus	1
10304	Terphenyls water prep	SW-846 3510C	1	111020018A	04/12/2011 22:30	Elaine F Stoltzfus	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11097130601C	04/07/2011 17:00	Nicole M Kepley	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11109117101B	04/20/2011 14:02	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11109117101B	04/19/2011 22:45	James S Mathiot	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

REVISED

Sample Description: TB-040611 Water
SSFL Area IV Collocated Soil Sampling
TB-040611

LLI Sample # WW 6251860
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 08:00

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB406 SDG#: DE120-03TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-040611 Water
SSFL Area IV Collocated Soil Sampling
TB-040611

LLI Sample # WW 6251860
LLI Group # 1240941
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 08:00

Submitted: 04/07/2011 09:50
Reported: 05/18/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB406 SDG#: DE120-03TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111011AA	04/11/2011	05:29	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110981AA	04/08/2011	16:44	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110981AA	04/08/2011	16:44	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111011AA	04/11/2011	05:29	Holly Berry	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11102A20A	04/12/2011	15:26	Elizabeth J Marin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11102A20A	04/12/2011	15:26	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111021AA	Sample number(s): 6251858									
Acetone	6.7	U	6.7	8.0	ug/kg	83	91	32-209	9	30
Benzene	0.10	U	0.10	4.0	ug/kg	108	104	80-120	3	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	105	104	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	121	120	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94	94	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	87	90	70-120	4	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	84	79	32-162	6	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	85	97	46-153	13	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	108	104	72-120	4	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	112	107	75-120	4	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	103	100	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	95	92	69-122	4	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	99	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	85	80	37-154	6	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	71	73	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	102	99	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	94	91	54-132	3	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104	102	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	105	101	79-120	4	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	64	59	22-131	7	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	82	96	58-120	16	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	90	91	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96	99	80-120	3	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	95	97	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100	99	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	103	101	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	103	101	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	85	80	20-120	6	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	102	100	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	93	94	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113	107	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	102	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106	104	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	100	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	96	97	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	89	88	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	102	98	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	93	92	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	85	86	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101	98	80-120	3	30
Freon 113	0.11	U	0.11	4.0	ug/kg	116	109	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	99	97	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	104	100	57-120	4	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	86	100	45-155	14	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101	98	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108	103	75-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	88	93	74-121	5	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	86	99	61-134	14	30
Methylene Chloride	0.64	J	0.24	4.0	ug/kg	107	104	76-124	3	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	111	107	77-120	3	30
Styrene	0.10	U	0.10	4.0	ug/kg	95	94	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	93	93	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	99	106	71-123	7	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	106	100	77-120	6	30
Toluene	0.08	U	0.08	4.0	ug/kg	105	101	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	97	100	64-120	3	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	92	93	68-120	0	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	93	91	71-125	3	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97	101	80-120	3	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	98	80-120	3	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	100	96	58-133	5	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	97	105	71-123	8	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	105	101	79-120	3	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107	103	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	95	91	53-120	4	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	102	98	80-120	4	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	97	95	80-120	2	30
Batch number: E110981AA	Sample number(s): 6251860									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	113	113	80-123	0	30
Batch number: E110982AA	Sample number(s): 6251858									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	115	110	70-130	4	30
Batch number: Y111011AA	Sample number(s): 6251860									
Acetone	6	U	6.	20	ug/l	130	115	49-234	12	30
Benzene	0.5	U	0.5	5	ug/l	108	109	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	110	111	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	113	114	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	106	107	80-120	1	30
Bromoform	1	U	1.	5	ug/l	94	96	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	108	108	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	117	118	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	98	101	74-120	4	30
sec-Butylbenzene	1	U	1.	5	ug/l	103	105	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	102	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	110	111	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	108	108	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	98	98	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	104	106	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	111	111	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	103	89	60-129	14	30
2-Chlorotoluene	1	U	1.	5	ug/l	104	107	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	102	107	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	65	58	38-136	10	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	96	99	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	104	105	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	107	111	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	110	110	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	104	106	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	107	108	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	106	108	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	95	88	47-120	8	30
1,1-Dichloroethane	1	U	1.	5	ug/l	109	109	79-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	116	116	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	105	99	74-123	6	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	108	108	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	105	105	80-120	0	30
1,2-Dichloropropane	1	U	1.	5	ug/l	104	106	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	105	108	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	98	100	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	106	107	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	101	102	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	95	97	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	105	105	79-120	0	30
Freon 113	2	U	2.	10	ug/l	114	105	69-128	8	30
Freon 133a	2	U	2.	5	ug/l	117	112	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	104	58-120	9	30
2-Hexanone	3	U	3.	10	ug/l	104	105	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	105	106	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	103	105	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	107	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	103	106	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	105	103	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	105	107	80-120	2	30
Styrene	1	U	1.	5	ug/l	100	100	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	104	106	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	105	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	111	111	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	104	105	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	102	107	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	95	99	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	109	109	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	107	108	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	108	110	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	119	120	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	107	113	80-120	5	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	105	74-120	3	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	104	105	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	95	91	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	105	105	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	101	105	80-120	3	30
Batch number: 11098SLB026	Sample number(s): 6251858									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	79		70-130		
Batch number: 11102WAB026	Sample number(s): 6251859									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	72	75	70-130	5	30
Batch number: 11103SLB026	Sample number(s): 6251858									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	29		15-121		
Benzoic acid	170 U		170.	500	ug/kg	96		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	96		79-117		
Carbazole	33	U	33.	170	ug/kg	102		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	28		10-110		

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Quality Control Summary

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Reported: 05/18/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	85		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	94		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	99		79-110		
Dibenzofuran	33	U	33.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	56		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	102		75-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	86		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	91		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	102		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	101		77-111		
Hexachlorobenzene	33	U	33.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	78		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	82		68-105		
Isophorone	33	U	33.	170	ug/kg	92		69-110		
2-Methylphenol	67	U	67.	170	ug/kg	96		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	104		66-117		
2-Nitroaniline	33	U	33.	170	ug/kg	102		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	86		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	95		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	95		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	100		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	82		63-107		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	100		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	78		51-117		
Phenol	33	U	33.	170	ug/kg	97		58-112		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 11103SLC026	Sample number(s): 6251858									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	97		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	76		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	89		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	75		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	113		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	107		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	86		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	120		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	86		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	47*		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	97		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		56-121		
Batch number: 11101A34A	Sample number(s): 6251858									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	82	75	67-119	9	30
Batch number: 11102A20A	Sample number(s): 6251859-6251860									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111010012A	Sample number(s): 6251858									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	110		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	97	54-134	1	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	96	54-134	1	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
HMX	100 U		100.	300	ug/kg	100		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	109		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800 U		800.	2,400	ug/kg	115		80-120		
RDX	50	U	50.	120	ug/kg	97		75-131		
Tetryl	61	U	61.	120	ug/kg	87		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
Batch number: 111020002A	Sample number(s): 6251859									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	100	100	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	100	110	75-121	10	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	99	74-120	1	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	100	69-107	0	30

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Reported: 05/18/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	100	100	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	108	108	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	94	95	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	93	98	72-141	5	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	53-129	0	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 110970009A	Sample number(s): 6251859									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	100	96	69-130	4	30
Batch number: 111010003A	Sample number(s): 6251858									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	92	104	80-126	12	50
Batch number: 111030013A	Sample number(s): 6251858									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	75	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	103		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111010026A	Sample number(s): 6251859									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	96	98	60-120	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	104	103	60-120	1	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	100	100	60-120	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	100	100	60-120	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	74	76	60-120	3	30
Batch number: 111040015A	Sample number(s): 6251858									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	118*		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	126*		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	128*		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	88		66-113		
Batch number: 110980005A	Sample number(s): 6251859									
Diethylene glycol	10	U	10.	100	mg/l	110		78-126		
Ethylene glycol	10	U	10.	100	mg/l	100		80-124		
Propylene glycol	10	U	10.	100	mg/l	105		80-120		
Batch number: 110980006A	Sample number(s): 6251858									
Diethylene glycol	5.0	U	5.0	13	mg/kg	174*		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	176*		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	181*		75-125		
Batch number: 111010040A	Sample number(s): 6251858									
Ethanol	100 U		100.	500	ug/kg	88		71-129		
Isopropanol	100 U		100.	500	ug/kg	92		75-125		
Methanol	100		100.	500	ug/kg	90		68-129		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111010043A	Sample number(s): 6251859									
Ethanol	200	U	200.	1,000	ug/l	88		66-132		
Isopropanol	200	U	200.	1,000	ug/l	96		75-125		
Methanol	200	U	200.	1,000	ug/l	92		71-140		
Batch number: 111020018A	Sample number(s): 6251859									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	92	93	75-125	1	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	92	94	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	71*	73*	75-125	3	20
Batch number: 111030030A	Sample number(s): 6251858									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	80		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	75		75-125		
Batch number: 111021026001A	Sample number(s): 6251858									
Antimony	0.0600	U	0.0600	0.200	mg/kg	177		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.162	J	0.0660	0.400	mg/kg	105		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	100		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	101		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	106		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	102		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	114		87-117		
Zinc	0.560	U	0.560	3.00	mg/kg	101		81-112		
Batch number: 111021026001B	Sample number(s): 6251858									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		83-111		
Batch number: 111021026001C	Sample number(s): 6251858									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	117		78-122		
Batch number: 111021026001D	Sample number(s): 6251858									
Barium	0.108	U	0.108	0.400	mg/kg	115*		81-111		
Batch number: 111025708001	Sample number(s): 6251858									
Aluminum	29.3		5.03	20.0	mg/kg	89		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	91		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	105		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	103		61-110		
Lithium	0.33	J	0.22	2.0	mg/kg	98		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	100		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	103		89-112		
Phosphorus	1.22	J	0.560	10.0	mg/kg	99		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	98		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	101		86-110		
Tin	1.28	J	1.00	10.0	mg/kg	104		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	96		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Zirconium	0.840	U	0.840	5.00	mg/kg	105		80-120		
Batch number: 111025711002	Sample number(s): 6251858									
Mercury	0.0028	U	0.0028	0.0978	mg/kg	95		88-123		
Batch number: 11097130601C	Sample number(s): 6251859									
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	93	94	90-110	1	20
Batch number: 11101101201A	Sample number(s): 6251858									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11102102201B	Sample number(s): 6251858									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11105105201B	Sample number(s): 6251858									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	100		90-110		
Batch number: 11107243201A	Sample number(s): 6251858									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	98		80-120		
Batch number: 11109117101B	Sample number(s): 6251859									
17b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	98	100	90-110	2	20
Batch number: 11101039401A	Sample number(s): 6251858									
18a pH by 9045C						99		95-105		
Batch number: 11101182103A	Sample number(s): 6251858									
32a OR Potential						99		98-102		
Batch number: 11109162401A	Sample number(s): 6251858									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11098SLB026	Sample number(s): 6251858 UNSPK: P244296								
N-Nitrosodimethylamine	71	75	70-130	6	30				
Batch number: 11103SLB026	Sample number(s): 6251858 UNSPK: P255761								
Aniline	62	61	35-95	1	30				
Benzidine	15*	21*	35-141	37*	30				
Benzoic acid	96	79	10-173	19	30				
Benzyl alcohol	92	90	67-115	1	30				
4-Bromophenyl-phenylether	91	87	67-129	4	30				
Carbazole	97	93	64-120	4	30				
4-Chloro-3-methylphenol	98	94	76-110	3	30				
4-Chloroaniline	42	44	23-95	6	30				
bis(2-Chloroethoxy)methane	93	88	75-104	4	30				
bis(2-Chloroethyl)ether	90	85	60-116	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroisopropyl)ether	82	80	55-142	2	30				
2-Chloronaphthalene	93	88	50-141	4	30				
2-Chlorophenol	96	95	73-121	1	30				
4-Chlorophenyl-phenylether	95	90	80-109	5	30				
Dibenzofuran	96	93	71-112	3	30				
1,2-Dichlorobenzene	79	79	66-108	0	30				
1,3-Dichlorobenzene	79	77	63-109	2	30				
1,4-Dichlorobenzene	80	78	70-100	2	30				
3,3'-Dichlorobenzidine	74	72	16-119	3	30				
2,4-Dichlorophenol	99	96	78-117	3	30				
2,4-Dimethylphenol	94	94	78-110	0	30				
3,5-Dimethylphenol	99	95	70-130	4	30				
4,6-Dinitro-2-methylphenol	62	50	24-116	21	30				
2,4-Dinitrophenol	57	37	20-143	41*	30				
2,4-Dinitrotoluene	98	92	73-113	7	30				
2,6-Dinitrotoluene	97	91	69-123	6	30				
1,2-Diphenylhydrazine	98	95	71-129	3	30				
Hexachlorobenzene	93	89	77-114	4	30				
Hexachlorobutadiene	85	79	62-120	7	30				
Hexachlorocyclopentadiene	54	43	10-153	24	30				
Hexachloroethane	77	75	57-109	2	30				
Isophorone	92	86	73-102	6	30				
2-Methylphenol	95	96	75-111	1	30				
4-Methylphenol	103	101	71-111	2	30				
2-Nitroaniline	99	96	67-125	3	30				
3-Nitroaniline	92	88	59-122	4	30				
4-Nitroaniline	73	78	52-112	7	30				
Nitrobenzene	93	88	72-106	5	30				
2-Nitrophenol	92	86	74-115	6	30				
4-Nitrophenol	95	90	54-113	5	30				
N-Nitroso-di-n-propylamine	74	83	60-116	13	30				
N-Nitrosodiphenylamine	97	95	86-145	2	30				
Pentachlorophenol	75	73	28-127	2	30				
Phenol	96	93	58-126	2	30				
1,2,4-Trichlorobenzene	90	85	72-115	5	30				
2,4,5-Trichlorophenol	97	95	78-109	2	30				
2,4,6-Trichlorophenol	97	92	77-115	5	30				
Batch number: 11103SLC026	Sample number(s): 6251858 UNSPK: P255761								
Acenaphthene	97	138*	63-105	34*	30				
Acenaphthylene	96	110	67-114	13	30				
Anthracene	100	145*	60-122	34*	30				
Benzo(a)anthracene	94	89	59-128	6	30				
Benzo(a)pyrene	75	74	45-138	3	30				
Benzo(b)fluoranthene	89	81	43-155	10	30				
Benzo(g,h,i)perylene	77	11*	33-141	59*	30				
Benzo(k)fluoranthene	73	75	42-144	1	30				
Butylbenzylphthalate	119	115	57-173	4	30				
Di-n-butylphthalate	87	88	65-148	1	30				
Chrysene	94	91	48-134	4	30				
Dibenz(a,h)anthracene	83	82	22-133	2	30				
Diethylphthalate	78	79	70-136	0	30				
Dimethylphthalate	97	102	74-118	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bis(2-Ethylhexyl)phthalate	102	104	39-167	0	30				
Fluoranthene	107	111	26-166	2	30				
Fluorene	93	120	66-122	24	30				
Indeno(1,2,3-cd)pyrene	76	57	21-143	20	30				
1-Methylnaphthalene	93	135*	72-123	36*	30				
2-Methylnaphthalene	82	99	64-103	18	30				
Naphthalene	89	113*	61-102	23	30				
N-Nitrosodimethylamine	52	49	48-113	5	30				
Di-n-octylphthalate	93	89	40-192	6	30				
Phenanthrene	92	117	12-165	22	30				
Pyrene	102	90	15-153	10	30				
Batch number: 11101A34A	Sample number(s): 6251858 UNSPK: P255761								
9a TPH by EPA 8015B Gas C5-C12	55	72	39-118	26	30				
Batch number: 111010012A	Sample number(s): 6251858 UNSPK: P245566								
4-Amino-2,6-Dinitrotoluene	109	109	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	110	110	80-137	1	50				
1,3-Dinitrobenzene	108	108	38-166	0	50				
2,4-Dinitrotoluene	106	106	80-131	0	50				
2,6-Dinitrotoluene	106	108	80-127	1	50				
HMX	98	99	63-128	1	50				
Nitrobenzene	104	103	80-125	1	50				
Nitroglycerin	95	96	80-120	0	50				
2-Nitrotoluene	104	106	80-122	1	50				
3-Nitrotoluene	108	109	72-119	1	50				
4-Nitrotoluene	106	106	80-125	0	50				
PETN	115	116	80-121	0	50				
RDX	93	93	75-129	0	50				
Tetryl	84	87	55-174	3	50				
1,3,5-Trinitrobenzene	108	108	82-126	1	50				
2,4,6-Trinitrotoluene	109	110	82-130	1	50				
Batch number: 111010003A	Sample number(s): 6251858 UNSPK: P250041								
25a Formaldehyde 8315A	90	87	80-120	3	50				
Batch number: 111030013A	Sample number(s): 6251858 UNSPK: P245566								
PCB-1016	76	67	29-146	13	50				
PCB-1260	85	75	39-149	12	50				
Batch number: 111040015A	Sample number(s): 6251858 UNSPK: P255761								
EFH (C12-C14)	274*	119	49-123	79*	20				
EFH (C15-C20)	210*	119	49-123	45*	20				
EFH (C21-C30)	142*	140*	49-123	1	20				
EFH (C30 - C40)	143*	121	49-123	14	20				
EFH (C8-C11)	127*	95	49-123	29*	20				
Batch number: 110980005A	Sample number(s): 6251859 UNSPK: P252704								
Diethylene glycol	74*	100	83-130	30*	20				
Ethylene glycol	111	111	89-125	0	20				
Propylene glycol	141*	131*	91-128	2	20				
Batch number: 110980006A	Sample number(s): 6251858 UNSPK: P250041								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Diethylene glycol	76	80	59-109	4	20				
Ethylene glycol	82	83	63-107	1	20				
Propylene glycol	85	84	63-107	1	20				
Batch number: 111010040A	Sample number(s): 6251858 UNSPK: 6251858								
Ethanol	73	72	48-130	2	20				
Isopropanol	77	77	12-149	1	20				
Methanol	74	73	43-138	1	20				
Batch number: 111010043A	Sample number(s): 6251859 UNSPK: P254443								
Ethanol	88	88	62-145	0	20				
Isopropanol	92	92	73-131	0	20				
Methanol	84	84	52-159	0	20				
Batch number: 111030030A	Sample number(s): 6251858 UNSPK: P250041								
m-Terphenyl	78	78	75-125	0	20				
o-Terphenyl	90	90	75-125	0	20				
p-Terphenyl	74*	74*	75-125	0	20				
Batch number: 111021026001A	Sample number(s): 6251858 UNSPK: P255761 BKG: P255761								
Antimony	90	73*	75-125	16	20	0.0837 J	0.150 J	57* (1)	20
Arsenic	126*	122	75-125	0	20	2.59	2.44	6	20
Beryllium	117	110	75-125	2	20	0.428	0.430	0 (1)	20
Cadmium	123	107	75-125	10	20	0.141	0.170	18 (1)	20
Chromium	131*	127*	75-125	0	20	12.6	12.7	1	20
Cobalt	112	101	75-125	7	20	4.55	4.69	3	20
Copper	133*	124	75-125	2	20	8.73	9.43	8	20
Lead	151*	150*	75-125	1	20	4.19	4.36	4	20
Nickel	134*	127*	75-125	2	20	8.70	8.75	1	20
Silver	110	101	75-125	6	20	0.0239 J	0.0237 J	1 (1)	20
Thallium	133*	112	75-125	10	20	0.215	0.245	13 (1)	20
Vanadium	160*	177*	75-125	5	20	22.7	24.3	7	20
Zinc	180 (2)	185 (2)	75-125	2	20	45.9	47.7	4	20
Batch number: 111021026001B	Sample number(s): 6251858 UNSPK: P255761 BKG: P255761								
Selenium	108	97	75-125	7	20	0.104 J	0.0963 J	8 (1)	20
Batch number: 111021026001C	Sample number(s): 6251858 UNSPK: P255761 BKG: P255761								
Molybdenum	112	100	75-125	8	20	0.355	0.441	21* (1)	20
Batch number: 111021026001D	Sample number(s): 6251858 UNSPK: P255761 BKG: P255761								
Barium	311 (2)	98 (2)	75-125	17	20	96.3	97.8	2	20
Batch number: 111025708001	Sample number(s): 6251858 UNSPK: P255761 BKG: P255761								
Aluminum	2160 (2)	1678 (2)	75-125	6	20	12,700	12,000	5	20
Boron	95	96	84-115	2	20	2.32 J	2.52 J	9 (1)	20
Calcium	135 (2)	136 (2)	75-125	0	20	1,900	1,800	6	20
Iron	373 (2)	-1674 (2)	75-125	12	20	17,900	15,800	12	20
Lithium	103	104	82-114	1	20	17.3	16.7	4	20
Magnesium	205 (2)	125 (2)	75-125	4	20	3,430	3,270	5	20
Manganese	115 (2)	95 (2)	75-125	4	20	225	218	3	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Phosphorus	73*	52*	75-125	6	20	289		261		10	20
Potassium	120	135*	75-125	4	20	2,920		3,000		3	20
Sodium	98	98	75-125	0	20	113		108		5 (1)	20
Strontium	97	98	75-115	1	20	18.7		17.5		6	20
Tin	89	90	80-110	1	20	2.53	J	2.42	J	5 (1)	20
Titanium	265 (2)	262 (2)	75-125	0	20	1,010		986		2	20
Zirconium	98	100	75-125	2	20	4.09	J	3.25	J	23* (1)	20
Batch number: 111025711002	Sample number(s): 6251858 UNSPK: P255761 BKG: P255761										
Mercury	93	94	65-135	2	20	0.0028	U	0.0027	U	0 (1)	20
Batch number: 11101101201A	Sample number(s): 6251858 UNSPK: P247206 BKG: P247206										
7a Perchlorate EPA 314.0	97		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11102102201B	Sample number(s): 6251858 UNSPK: P245570 BKG: P245570										
17a Cyanide by 9012B	115		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11105105201B	Sample number(s): 6251858 UNSPK: P250041 BKG: P250041										
11a Anions by 300.0 - Fluoride	67*		80-120			2.2		2.3		3 (1)	20
11a Anions by 300.0 - Nitrate	103		80-120			1.2	J	0.95	J	22* (1)	20
Batch number: 11107243201A	Sample number(s): 6251858 UNSPK: P245568 BKG: P245568										
3a Cr VI by EPA 7199	92		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11101039401A	Sample number(s): 6251858 BKG: P248206										
18a pH by 9045C						7.33		7.35		0	1
Batch number: 11101182103A	Sample number(s): 6251858 BKG: P248206										
32a OR Potential						272		268		1	6
Batch number: 11109162401A	Sample number(s): 6251858 BKG: 6251858										
Moisture Content by 160.3						11.5		11.6		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111021AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6251858	96	96	99	88
Blank	97	97	98	88
LCS	97	99	101	96
LCSD	98	101	101	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Surrogate Quality Control

Batch number: E110981AA

	Toluene-d8
6251860	101
Blank	101
LCS	101
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110982AA

	Toluene-d8
6251858	98
Blank	98
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111011AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6251860	102	101	100	94
Blank	102	101	101	95
LCS	103	103	100	97
LCSD	103	105	100	96
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11098SLB026

	N-Nitrosodimethylamine-d6
6251858	104
Blank	99
LCS	108
MS	115
MSD	112
Limits:	50-150

Analysis Name: 15b NDMA by 1625C
Batch number: 11102WAB026

	N-Nitrosodimethylamine-d6
6251859	183*
Blank	116
LCS	115
LCSD	120
Limits:	50-150

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11103SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6251858	92	94	98	84	83	90
Blank	88	94	90	87	87	79
LCS	96	99	103	90	92	87
MS	92	95	94	88	87	87
MSD	91	93	92	83	83	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11103SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6251858	93	87	98
Blank	102	99	118
LCS	97	93	103
MS	98	89	108
MSD	99	94	114
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11101A34A

	Trifluorotoluene-F
6251858	69
Blank	85
LCS	98
LCSD	91
MS	74
MSD	83
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11102A20A

	Trifluorotoluene-F
6251859	86
6251860	86
Blank	86
LCS	119
LCSD	121
Limits:	63-135

Analysis Name: 25b Formaldehyde 8315A
Batch number: 110970009A

	Butyraldehyde
6251859	82
Blank	84
LCS	98
LCSD	103

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Surrogate Quality Control

Limits: 45-145

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111010003A

	Butyraldehyde
6251858	78
Blank	76
LCS	92
LCSD	98
MS	85
MSD	82

Limits: 64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111010012A

	2-Nitro-m-xylene
6251858	137
Blank	132
LCS	136
LCSD	133
MS	130
MSD	126

Limits: 80-146

Analysis Name: 16b Energetics by 8330A
Batch number: 111020002A

	2-Nitro-m-xylene
6251859	111
Blank	110
LCS	117
LCSD	115

Limits: 50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111030013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6251858	84	115
Blank	90	108
LCS	80	103
LCSD	76	96
MS	79	66
MSD	73	65

Limits: 53-139 45-120

Analysis Name: 21b Glycols by 8015B
Batch number: 110980005A

	Tetramethylene glycol

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Surrogate Quality Control

6251859 84
Blank 92
LCS 103
MS 81
MSD 99

Limits: 77-119

Analysis Name: 21a Glycols by 8015B
Batch number: 110980006A

	Tetramethylene glycol
6251858	72
Blank	155*
LCS	159*
MS	90
MSD	81
Limits:	29-137

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111010026A

	Chlorobenzene	Orthoterphenyl
6251859	86	91
Blank	84	88
LCS	94	100
LCSD	85	96
Limits:	28-152	52-131

Analysis Name: 19a Alcohols by 8015B
Batch number: 111010040A

	Acetone
6251858	96
Blank	114
LCS	112
MS	93
MSD	92
Limits:	42-138

Analysis Name: 19b Alcohols by 8015B
Batch number: 111010043A

	Acetone
6251859	98
Blank	139
LCS	141
MS	96
MSD	95
Limits:	54-147

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111020018A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240941
Reported: 05/18/11 at 11:48 AM

Surrogate Quality Control

	n-Triacontane-d62
6251859	28*
Blank	37*
LCS	30*
LCSD	30*
Limits:	50-150

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111030030A

	n-Triacontane-d62
6251858	75
Blank	76
LCS	76
MS	76
MSD	74
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111040015A

	Chlorobenzene	Orthoterphenyl
6251858	74	98
Blank	95	106
LCS	95	110
MS	86	108
MSD	93	117
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1240941 6251858-60

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals: EPA 6010B/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs-EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8950 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-151-SA5A-SB-4.5	04.06.11	0915	SOIL	NONE	5-Encores										X	X	X										
SL-151-SA5A-SB-4.0-5.0	04.06.11	0920	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB12-SA5A-SB-040611	04.06.11	0940	WATER	NONE	5-1L amber bottles													X			X	X		X			
EB12-SA5A-SB-040611	04.06.11	0940	WATER	HCl	5-40mL VOA vials												X									X	
EB12-SA5A-SB-040611	04.06.11	0940	WATER	NONE	4-40mL VOA vials														X						X		
EB12-SA5A-SB-040611	04.06.11	0940	WATER	NONE	1-250mL glass															X							
EB12-SA5A-SB-040611	04.06.11	0940	WATER	NaOH	1-500mL poly																		X				
TB-040611	04.06.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/06/2011 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	4/7/11 0952	8695 1432 3622	

May 18, 2011

Mr. Todd Burgesser
CDM
Suite 1100, 555 17th Street
Denver, CO 80202

Dear Mr. Burgesser:

I am writing to inform you of revised analytical reports that are being issued for the following:

Project No. SSFL Area IV Collocated Soil Sampling
Group No. 1240941 **SDG: DE120**

LLI Sample No.	Client Sample Identification	Collection Date
6251858	SL-151-SA5A-SB-4.0-5.0 Soil	04/06/2011

The correction to the data affects the barium analysis only.

During data package review, it was noted that the barium Laboratory Control Sample was out of specification high for these samples. It was missed due to the acceptance window being incorrect with a range of 81% to 980%. The Laboratory Control Sample range has been corrected to 81% to 111% on the QC Summary and a comment has been added to the samples with results greater than the reporting limit.

The revised analytical report reflects this correction and is enclosed.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1923. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,

Jennifer L. Moyer
Senior Specialist
Metals

JLM/mcs
Enclosures

cc: Nicole Maljovec

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/07/2011
Group Number: 1240942
SDG: DX066
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-151-SA5A-SB-4.0-5.0 Soil	6251861

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-151-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5A-SB-4.0-5.0

LLI Sample # SW 6251861
LLI Group # 1240942
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:20

Submitted: 04/07/2011 09:50
Reported: 04/20/2011 21:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD151 SDG#: DX066-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-151-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5A-SB-4.0-5.0

LLI Sample # SW 6251861
LLI Group # 1240942
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:20

Submitted: 04/07/2011 09:50
Reported: 04/20/2011 21:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD151 SDG#: DX066-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0156 U	0.0156	1.13	1
11031	12378-PeCDD	40321-76-4	0.0195 JBQ	0.0181	5.65	1
11031	123478-HxCDD	39227-28-6	0.0145 U	0.0145	5.65	1
11031	123678-HxCDD	57653-85-7	0.0332 JBQ	0.0140	5.65	1
11031	123789-HxCDD	19408-74-3	0.0641 JBQ	0.0129	5.65	1
11031	1234678-HpCDD	35822-46-9	0.263 JBQ	0.0188	5.65	1
11031	OCDD	3268-87-9	1.02 JB	0.0297	11.3	1
11031	2378-TCDF	51207-31-9	0.0182 JBQ	0.0121	1.13	1
11031	12378-PeCDF	57117-41-6	0.0233 JB	0.00949	5.65	1
11031	23478-PeCDF	57117-31-4	0.0843 JB	0.00927	5.65	1
11031	123478-HxCDF	70648-26-9	0.0718 JBQ	0.0202	5.65	1
11031	123678-HxCDF	57117-44-9	0.0502 JBQ	0.0142	5.65	1
11031	123789-HxCDF	72918-21-9	0.0438 JBQ	0.0122	5.65	1
11031	234678-HxCDF	60851-34-5	0.111 JBQ	0.0108	5.65	1
11031	1234678-HpCDF	67562-39-4	0.261 JB	0.0120	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0521 JBQ	0.0115	5.65	1
11031	OCDF	39001-02-0	0.258 JBQ	0.0214	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-151-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5A-SB-4.0-5.0

LLI Sample # SW 6251861
LLI Group # 1240942
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:20

Submitted: 04/07/2011 09:50
Reported: 04/20/2011 21:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD151 SDG#: DX066-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-151-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5A-SB-4.0-5.0

LLI Sample # SW 6251861
LLI Group # 1240942
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/06/2011 09:20

Submitted: 04/07/2011 09:50
Reported: 04/20/2011 21:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD151 SDG#: DX066-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11102002	04/14/2011 17:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11102002	04/12/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240942
Reported: 04/20/11 at 09:21 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11109162401A	Sample number(s): 6251861								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11102002	Sample number(s): 6251861								
2378-TCDD	0.0239 J	0.0125	1.00	ng/kg	89		67-158		
12378-PeCDD	0.0307 J	0.0130	5.00	ng/kg	90		70-142		
123478-HxCDD	0.0273 J	0.0122	5.00	ng/kg	89		70-164		
123678-HxCDD	0.0220 J	0.0115	5.00	ng/kg	87		76-134		
123789-HxCDD	0.0366 J	0.00980	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.196 J	0.0170	5.00	ng/kg	88		70-140		
OCDD	1.15 J	0.0332	10.0	ng/kg	88		78-144		
2378-TCDF	0.0120 J	0.0102	1.00	ng/kg	89		75-158		
12378-PeCDF	0.0371 J	0.00670	5.00	ng/kg	87		80-134		
23478-PeCDF	0.0831 J	0.00670	5.00	ng/kg	88		68-160		
123478-HxCDF	0.0690 J	0.0225	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0643 J	0.0160	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0560 J	0.00880	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0978 J	0.00820	5.00	ng/kg	91		70-156		
1234678-HpCDF	0.128 J	0.0146	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0709 J	0.0106	5.00	ng/kg	90		78-138		
OCDF	0.231 J	0.0183	10.0	ng/kg	89		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11109162401A	Sample number(s): 6251861			BKG: P251858					
Moisture Content by 160.3						11.5	11.6	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1240942
Reported: 04/20/11 at 09:21 PM

Surrogate Quality Control

Batch number: 11102002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6251861	76	68	36	50	66	68
Blank	88	74	28	40	76	78
OPR	72	57	22*	30	64	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6251861	52	64	60	87	79	70
Blank	43	73	65	99	88	76
OPR	30	58	45	76	71	51
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6251861	76	79	78	73	70	72
Blank	82	92	89	83	76	79
OPR	60	76	71	67	66	66
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1240942 6251861

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 15 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/6847/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-151-SA5A-SB-4.5	04.06.11	0915	SOIL	NONE	5-Encores										X	X	X										
SL-151-SA5A-SB-4.0-5.0	04.06.11	0920	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB12-SA5A-SB-040611	04.06.11	0940	WATER	NONE	5-1L amber bottles													X			X	X		X			
EB12-SA5A-SB-040611	04.06.11	0940	WATER	HCl	5-40mL VOA vials												X									X	
EB12-SA5A-SB-040611	04.06.11	0940	WATER	NONE	4-40mL VOA vials														X						X		
EB12-SA5A-SB-040611	04.06.11	0940	WATER	NONE	1-250mL glass															X							
EB12-SA5A-SB-040611	04.06.11	0940	WATER	NaOH	1-500mL poly																		X				
TB-040611	04.06.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: ~~04/06/2011 1700~~ — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 4/7/11 0950 — Airbill No.(s): 8695 1432 3622

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/08/2011
Group Number: 1241175
SDG: DE121
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-079-SA5A-SB-4.0-5.0 Soil	6253025
SL-080-SA5A-SB-3.0-4.0 Soil	6253026
SL-081-SA5A-SB-2.0-3.0 Soil	6253027
SL-258-SA5A-SB-4.0-5.0 Soil	6253028
SL-088-SA5A-SB-4.0-5.0 Soil	6253029
TB-040711 Water	6253030

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Max E. Snavely
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: SL-079-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5A-SB-4.0-5.0

LLI Sample # SW 6253025
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 11:05

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE121-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.9
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.9
06192	Methylene Chloride	75-09-2	0.43	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-079-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5A-SB-4.0-5.0

LLI Sample # SW 6253025
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 11:05

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE121-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.17	J	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.12
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-079-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5A-SB-4.0-5.0

LLI Sample # SW 6253025
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 11:05

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE121-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	9.7	J	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	7.5	J	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	72		6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	1.5	J	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	2.2		0.73	1.8		1
10138	Naphthalene	91-20-3	0.87	J	0.73	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-079-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5A-SB-4.0-5.0

LLI Sample # SW 6253025
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 11:05

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE121-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.82	J	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		5.47	21.8		1
07914	Boron	7440-42-8	0.968	U	0.968	5.44		1
01650	Calcium	7440-70-2	5,200		6.67	21.8		1
01654	Iron	7439-89-6	22,700		5.12	21.8		1
01656	Lithium	7439-93-2	29.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,960		2.76	10.9		1
06958	Manganese	7439-96-5	289		0.0849	0.544		1
10145	Phosphorus	7723-14-0	411		0.609	10.9		1
01662	Potassium	7440-09-7	2,900		19.6	54.4		1
01667	Sodium	7440-23-5	70.6	J	40.6	109		1
07968	Strontium	7440-24-6	15.1		0.0675	0.544		1
06969	Tin	7440-31-5	3.37	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,200		0.413	1.09		1
10146	Zirconium	7440-67-7	3.75	J	0.914	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0653	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.20		0.0870	0.435		2
06126	Barium	7440-39-3	75.2		0.118	0.435		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-079-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA5A-SB-4.0-5.0

LLI Sample # SW 6253025
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 11:05

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE121-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.							
06127	Beryllium	7440-41-7	0.527		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.127		0.0435	0.109		2
06131	Chromium	7440-47-3	17.9		0.131	0.435		2
06132	Cobalt	7440-48-4	6.21		0.0218	0.109		2
06133	Copper	7440-50-8	8.73		0.0718	0.435		2
06135	Lead	7439-92-1	4.93		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.379		0.0544	0.109		2
06139	Nickel	7440-02-0	11.8		0.109	0.435		2
06141	Selenium	7782-49-2	0.139	J	0.0435	0.435		2
06142	Silver	7440-22-4	0.0211	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.239		0.0326	0.109		2
06148	Vanadium	7440-62-2	35.0		0.0239	0.109		2
06149	Zinc	7440-66-6	66.5		0.609	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	287		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-079-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA5A-SB-4.0-5.0

LLI Sample # SW 6253025
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 11:05

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE121-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-079-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111021AA	04/12/2011 17:01	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110982AA	04/08/2011 23:33	Sara E Johnson	22.12
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109824062	04/08/2011 15:20	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109824062	04/08/2011 15:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109824062	04/08/2011 15:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109824062	04/08/2011 15:20	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 15:46	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/14/2011 22:37	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111040008A	04/15/2011 14:34	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111040008A	04/14/2011 16:05	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 08:25	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 08:25	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 08:25	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 17:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 08:25	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 08:25	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 08:25	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 08:25	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 08:25	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 08:25	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 08:25	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 08:25	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 08:25	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 08:25	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 09:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 09:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:45	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-079-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA5A-SB-4.0-5.0

LLI Sample # SW 6253025
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 11:05

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE121-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 15:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11110495201A	04/21/2011 12:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201A	04/25/2011 22:49	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11107243201A	04/19/2011 05:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11110495201A	04/20/2011 23:50	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201A	04/11/2011 13:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11101182103A	04/11/2011 14:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11101039401A	04/11/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401B	04/11/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: **SL-080-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA5A-SB-3.0-4.0

LLI Sample # SW 6253026
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:58

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE121-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.8		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.99
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.99
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.99
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.99
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.99
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.99
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.99
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.99
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.99
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.99
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.99
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.99
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.99
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.99
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.99
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.99
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.99
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.99
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.99
06192	Methylene Chloride	75-09-2	0.48	J	0.26	4.4		0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.99

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Sample Description: SL-080-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5A-SB-3.0-4.0

LLI Sample # SW 6253026
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:58

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE121-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.99
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.99
06192	Toluene	108-88-3	0.13	J	0.09	4.4		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.99
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.99
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.99
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.99
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.99
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.99
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		24.18
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-080-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5A-SB-3.0-4.0

LLI Sample # SW 6253026
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:58

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE121-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.9	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	9.5	J	6.6	20		1
10138	Chrysene	218-01-9	0.38	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	7.9	J	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.5	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1

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Sample Description: SL-080-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5A-SB-3.0-4.0

LLI Sample # SW 6253026
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:58

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE121-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.54	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300		5.47	21.7		1
07914	Boron	7440-42-8	0.967	U	0.967	5.43		1
01650	Calcium	7440-70-2	4,320		6.66	21.7		1
01654	Iron	7439-89-6	30,900		25.6	109		5
01656	Lithium	7439-93-2	37.9		0.24	2.2		1
01657	Magnesium	7439-95-4	8,140		2.76	10.9		1
06958	Manganese	7439-96-5	339		0.0848	0.543		1
10145	Phosphorus	7723-14-0	523		0.609	10.9		1
01662	Potassium	7440-09-7	3,000		19.6	54.3		1
01667	Sodium	7440-23-5	125		40.5	109		1
07968	Strontium	7440-24-6	26.5		0.0674	0.543		1
06969	Tin	7440-31-5	3.57	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,460		0.413	1.09		1
10146	Zirconium	7440-67-7	3.60	J	0.913	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.501		0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.8		0.0878	0.439		2
06126	Barium	7440-39-3	84.3		0.119	0.439		2

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Sample Description: SL-080-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5A-SB-3.0-4.0

LLI Sample # SW 6253026
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:58

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE121-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.						
06127	Beryllium	7440-41-7	0.859	0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0979 J	0.0439	0.110		2
06131	Chromium	7440-47-3	30.7	0.132	0.439		2
06132	Cobalt	7440-48-4	14.7	0.0220	0.110		2
06133	Copper	7440-50-8	22.3	0.0724	0.439		2
06135	Lead	7439-92-1	13.0	0.0114	0.220		2
06138	Molybdenum	7439-98-7	1.20	0.0549	0.110		2
06139	Nickel	7440-02-0	23.6	0.110	0.439		2
06141	Selenium	7782-49-2	0.161 J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0461 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.458	0.0329	0.110		2
06148	Vanadium	7440-62-2	51.9	0.0241	0.110		2
06149	Zinc	7440-66-6	108	0.615	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	280	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-080-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA5A-SB-3.0-4.0

LLI Sample # SW 6253026
LLI Group # 1241175
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Project Name: SSFL Area IV Collocated Soil Sampling

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SL080 SDG#: DE121-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-080-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111021AA	04/12/2011 17:24	Chelsea B Eastep	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110982AA	04/08/2011 23:53	Sara E Johnson	24.18
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109824062	04/08/2011 15:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109824062	04/08/2011 15:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109824062	04/08/2011 15:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109824062	04/08/2011 15:22	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 16:11	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/14/2011 23:10	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111040008A	04/15/2011 14:53	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111040008A	04/14/2011 16:05	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 08:28	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 08:28	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 08:28	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 17:37	John P Hook	5
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 08:28	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 08:28	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 08:28	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 08:28	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 08:28	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 08:28	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 08:28	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 08:28	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 08:28	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 08:28	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 09:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 09:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:48	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-080-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA5A-SB-3.0-4.0

LLI Sample # SW 6253026
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:58

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE121-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 09:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11110495201A	04/21/2011 12:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201B	04/26/2011 10:59	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11107243201A	04/19/2011 05:57	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11110495201A	04/20/2011 23:50	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201B	04/11/2011 13:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11101182103A	04/11/2011 14:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11101039401A	04/11/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401B	04/11/2011 21:23	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: SL-081-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5A-SB-2.0-3.0

LLI Sample # SW 6253027
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:00

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE121-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6	U	7.6	9.1		1.03
06192	Benzene	71-43-2	0.11	U	0.11	4.6		1.03
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.03
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.03
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.03
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.03
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		1.03
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.03
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.03
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.03
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.6		1.03
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.03
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.03
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.6		1.03
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.03
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.6		1.03
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.6		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		1.03
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.03
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.6		1.03
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.03
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.03
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.6		1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.03
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.6		1.03
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.6		1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1.03
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.03
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.03
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.03
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.1		1.03
06192	Methylene Chloride	75-09-2	0.67	J	0.27	4.6		1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.03

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5A-SB-2.0-3.0

LLI Sample # SW 6253027
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:00

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE121-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.6		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		1.03
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.03
06192	Toluene	108-88-3	0.24	J	0.09	4.6		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.03
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.03
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.6		1.03
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.03
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.6		1.03
06192	o-Xylene	95-47-6	0.19	U	0.19	4.6		1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.23
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: **SL-081-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5A-SB-2.0-3.0

LLI Sample # SW 6253027
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:00

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE121-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	10	J	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	7.6	J	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.1	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5A-SB-2.0-3.0

LLI Sample # SW 6253027
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:00

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE121-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,600		5.44	21.6		1
07914	Boron	7440-42-8	0.962	U	0.962	5.41		1
01650	Calcium	7440-70-2	2,560		6.63	21.6		1
01654	Iron	7439-89-6	22,300		5.09	21.6		1
01656	Lithium	7439-93-2	28.8		0.24	2.2		1
01657	Magnesium	7439-95-4	5,660		2.75	10.8		1
06958	Manganese	7439-96-5	298		0.0843	0.541		1
10145	Phosphorus	7723-14-0	424		0.605	10.8		1
01662	Potassium	7440-09-7	2,700		19.5	54.1		1
01667	Sodium	7440-23-5	89.5	J	40.3	108		1
07968	Strontium	7440-24-6	14.8		0.0670	0.541		1
06969	Tin	7440-31-5	2.84	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,170		0.411	1.08		1
10146	Zirconium	7440-67-7	2.70	J	0.908	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.283		0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.25		0.0857	0.428		2
06126	Barium	7440-39-3	122		0.116	0.428		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5A-SB-2.0-3.0

LLI Sample # SW 6253027
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:00

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE121-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.						
06127	Beryllium	7440-41-7	0.886	0.0171	0.107		2
06128	Cadmium	7440-43-9	0.117	0.0428	0.107		2
06131	Chromium	7440-47-3	24.6	0.128	0.428		2
06132	Cobalt	7440-48-4	8.62	0.0214	0.107		2
06133	Copper	7440-50-8	11.4	0.0707	0.428		2
06135	Lead	7439-92-1	7.69	0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.688	0.0535	0.107		2
06139	Nickel	7440-02-0	17.2	0.107	0.428		2
06141	Selenium	7782-49-2	0.166 J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0267 J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.362	0.0321	0.107		2
06148	Vanadium	7440-62-2	50.6	0.0236	0.107		2
06149	Zinc	7440-66-6	78.1	0.600	3.21		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	301	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.12	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-081-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5A-SB-2.0-3.0

LLI Sample # SW 6253027
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:00

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE121-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-081-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111021AA	04/12/2011 17:46	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110982AA	04/09/2011 00:13	Sara E Johnson	23.23
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109824062	04/08/2011 15:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109824062	04/08/2011 15:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109824062	04/08/2011 15:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109824062	04/08/2011 15:25	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 16:36	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/14/2011 23:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111040008A	04/15/2011 15:11	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111040008A	04/14/2011 16:05	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 08:32	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 08:32	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 08:32	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 17:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 08:32	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 08:32	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 08:32	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 08:32	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 08:32	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 08:32	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 08:32	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 08:32	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 08:32	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 08:32	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 09:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 09:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:51	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5A-SB-2.0-3.0

LLI Sample # SW 6253027
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:00

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE121-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 09:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11110495201A	04/21/2011 13:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201B	04/26/2011 00:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11107243201A	04/19/2011 06:18	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11110495201A	04/20/2011 23:50	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201B	04/11/2011 13:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11101182103A	04/11/2011 14:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11101039401A	04/11/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401B	04/11/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-258-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-258-SA5A-SB-4.0-5.0

LLI Sample # SW 6253028
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 14:03

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL258 SDG#: DE121-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		0.9
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.9
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.9
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		0.9
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.9
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.9
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.9
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		0.9
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.9
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.9
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.9
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.9
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.9
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.9
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.9
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		0.9
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.9
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.9
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.9
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.9
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.9
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.9
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.9
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.9
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.9
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.9
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.9
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.9
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.9
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.9
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.9
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.9
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		0.9
06192	Methylene Chloride	75-09-2	0.38	J	0.27	4.4		0.9
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-258-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-258-SA5A-SB-4.0-5.0

LLI Sample # SW 6253028
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 14:03

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL258 SDG#: DE121-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.9
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.9
06192	Toluene	108-88-3	0.09	J	0.09	4.4		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.9
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.9
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.9
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.9
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.9
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		22.85
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	202	U	202	405		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1

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Sample Description: SL-258-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-258-SA5A-SB-4.0-5.0

LLI Sample # SW 6253028
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 14:03

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL258 SDG#: DE121-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	10	J	7.3	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.8	J	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	7.3	22		1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1

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Sample Description: SL-258-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-258-SA5A-SB-4.0-5.0

LLI Sample # SW 6253028
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 14:03

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL258 SDG#: DE121-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	2.7		0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	3.9		0.81	2.0		1
10138	Naphthalene	91-20-3	3.3		0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	74	U	74	150	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	49	U	49	150	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	98	U	98	300	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	98	U	98	300	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	49	U	49	150	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	49	U	49	150	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	49	U	49	150	10000000	1
10132	HMX	2691-41-0	120	U	120	370	10000000	1
10132	Nitrobenzene	98-95-3	49	U	49	150	10000000	1
10132	Nitroglycerin	55-63-0	980	U	980	3,000	10000000	1
10132	2-Nitrotoluene	88-72-2	98	U	98	150	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	150	10000000	1
10132	4-Nitrotoluene	99-99-0	98	U	98	150	10000000	1
10132	PETN	78-11-5	980	U	980	3,000	10000000	1
10132	RDX	121-82-4	69	U	69	150	10000000	1

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Sample Description: SL-258-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-258-SA5A-SB-4.0-5.0

LLI Sample # SW 6253028
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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SL258 SDG#: DE121-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	75	U	75	150	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	49	U	49	150	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	49	U	49	150	10000000	1
	Reporting limits were raised due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	730	U	730	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.1		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.1		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.1		1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1		1
10225	PCB-1221	11104-28-2	0.41	U	0.41	2.1		1
10225	PCB-1232	11141-16-5	0.41	U	0.41	2.1		1
10225	PCB-1242	53469-21-9	0.41	U	0.41	2.1		1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1		1
10225	PCB-1254	11097-69-1	0.41	U	0.41	2.1		1
10225	PCB-1260	11096-82-5	0.48	U	0.48	2.1		1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1		1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C15-C20)	n.a.	1.2	J	0.49	1.5		1
10199	EFH (C21-C30)	n.a.	3.8		0.49	1.5		1
10199	EFH (C30 - C40)	n.a.	13		0.49	1.5		1
10199	EFH (C8-C11)	n.a.	0.49	U	0.49	1.5		1
	The recoveries for target analytes in the LCS are outside the QC acceptance limits noted on the QC summary. The sample was re-extracted outside the method hold time. QC results from the re-extraction are within the limits. All results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	620		1
10501	Isopropanol	67-63-0	120	U	120	620		1
10501	Methanol	67-56-1	120	U	120	620		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.2	U	6.2	15		1
08283	Ethylene glycol	107-21-1	6.2	U	6.2	15		1
08283	Propylene glycol	57-55-6	6.2	U	6.2	15		1

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Sample Description: SL-258-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-258-SA5A-SB-4.0-5.0

LLI Sample # SW 6253028
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 14:03

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL258 SDG#: DE121-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.3		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.3		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.3		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,800		6.19	24.6		1
07914	Boron	7440-42-8	5.88	J	1.09	6.15		1
01650	Calcium	7440-70-2	27,000		7.54	24.6		1
01654	Iron	7439-89-6	33,400		29.0	123		5
01656	Lithium	7439-93-2	26.0		0.27	2.5		1
01657	Magnesium	7439-95-4	8,460		3.12	12.3		1
06958	Manganese	7439-96-5	443		0.0959	0.615		1
10145	Phosphorus	7723-14-0	628		0.689	12.3		1
01662	Potassium	7440-09-7	6,680		22.1	61.5		1
01667	Sodium	7440-23-5	109	J	45.9	123		1
07968	Strontium	7440-24-6	54.7		0.0763	0.615		1
06969	Tin	7440-31-5	3.21	J	1.23	12.3		1
06970	Titanium	7440-32-6	1,270		0.467	1.23		1
10146	Zirconium	7440-67-7	4.55	J	1.03	6.15		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.343		0.0731	0.244		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.98		0.0974	0.487		2
06126	Barium	7440-39-3	117		0.132	0.487		2
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.							
06127	Beryllium	7440-41-7	0.791		0.0195	0.122		2
06128	Cadmium	7440-43-9	0.388		0.0487	0.122		2
06131	Chromium	7440-47-3	29.6		0.146	0.487		2
06132	Cobalt	7440-48-4	11.3		0.0244	0.122		2
06133	Copper	7440-50-8	20.0		0.0804	0.487		2
06135	Lead	7439-92-1	10.8		0.0127	0.244		2
06138	Molybdenum	7439-98-7	0.537		0.0609	0.122		2
06139	Nickel	7440-02-0	23.3		0.122	0.487		2
06141	Selenium	7782-49-2	0.215	J	0.0487	0.487		2
06142	Silver	7440-22-4	0.0471	J	0.0146	0.122		2
06145	Thallium	7440-28-0	0.318		0.0365	0.122		2
06148	Vanadium	7440-62-2	56.3		0.0268	0.122		2
06149	Zinc	7440-66-6	83.4		0.682	3.65		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: SL-258-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-258-SA5A-SB-4.0-5.0

LLI Sample # SW 6253028
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL258 SDG#: DE121-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.98	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.98	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.1	U	11.1	36.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.25	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.62		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	314		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.27		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	18.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-258-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111021AA	04/12/2011 18:09	Chelsea B Eastep	0.9

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Sample Description: **SL-258-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-258-SA5A-SB-4.0-5.0

LLI Sample # SW 6253028
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 14:03

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL258 SDG#: DE121-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110982AA	04/09/2011 00:33	Sara E Johnson	22.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109824062	04/08/2011 15:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109824062	04/08/2011 15:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109824062	04/08/2011 15:36	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109824062	04/08/2011 15:28	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11098SLB026	04/21/2011 07:50	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 17:00	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/15/2011 00:13	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11098SLB026	04/11/2011 07:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11101A34A	04/11/2011 15:34	Elizabeth J Marin	22.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201109824062	04/08/2011 15:27	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111010012A	04/13/2011 20:56	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111010003A	04/13/2011 23:17	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111040008A	04/15/2011 15:30	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111040008A	04/14/2011 16:05	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111010003A	04/11/2011 18:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111010012A	04/11/2011 16:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111040015A	04/20/2011 02:19	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111010040A	04/11/2011 22:50	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111010022A	04/11/2011 19:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111030030A	04/19/2011 20:42	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111040015A	04/14/2011 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111030030A	04/14/2011 12:15	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111010040A	04/11/2011 18:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111010022A	04/11/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 08:35	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 08:35	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 08:35	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 17:44	John P Hook	5
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 08:35	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 08:35	Damary Valentin	1

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Sample Description: **SL-258-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-258-SA5A-SB-4.0-5.0

LLI Sample # SW 6253028
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 14:03

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL258 SDG#: DE121-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 08:35	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 08:35	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 08:35	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 08:35	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 08:35	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 08:35	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 08:35	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 08:35	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 09:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 09:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 09:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 09:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 09:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 09:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 09:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 09:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 09:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 09:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 09:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 09:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 09:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 09:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 09:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 09:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11110495201A	04/21/2011 13:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11110495201A	04/21/2011 13:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201B	04/26/2011 01:04	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11107243201A	04/19/2011 06:33	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11102102201B	04/13/2011 21:08	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11110495201A	04/20/2011 23:50	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201B	04/11/2011 13:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11102102201B	04/12/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11101182103A	04/11/2011 14:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11101039401B	04/11/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: SL-088-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5A-SB-4.0-5.0

LLI Sample # SW 6253029
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 15:23

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL088 SDG#: DE121-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.86
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.86
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.86
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.86
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.86
06192	Methylene Chloride	75-09-2	0.47	J	0.24	4.0		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.86

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Sample Description: SL-088-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5A-SB-4.0-5.0

LLI Sample # SW 6253029
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 15:23

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL088 SDG#: DE121-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.86
06192	Toluene	108-88-3	0.28	J	0.08	4.0		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.05
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-088-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5A-SB-4.0-5.0

LLI Sample # SW 6253029
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 15:23

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL088 SDG#: DE121-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	11	J	6.9	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	8.1	J	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44		6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.99	J	0.77	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5A-SB-4.0-5.0

LLI Sample # SW 6253029
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 15:23

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL088 SDG#: DE121-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: n-nitrosodimethylamine							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	4.5		0.38	2.0		1
10225	PCB-1254	11097-69-1	2.1		0.38	2.0		1
10225	PCB-1260	11096-82-5	1.5	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		5.75	22.9		1
07914	Boron	7440-42-8	1.02	U	1.02	5.71		1
01650	Calcium	7440-70-2	2,800		7.00	22.9		1
01654	Iron	7439-89-6	21,500		5.38	22.9		1
01656	Lithium	7439-93-2	27.3		0.25	2.3		1
01657	Magnesium	7439-95-4	4,950		2.90	11.4		1
06958	Manganese	7439-96-5	235		0.0891	0.571		1
10145	Phosphorus	7723-14-0	327		0.640	11.4		1
01662	Potassium	7440-09-7	2,400		20.6	57.1		1
01667	Sodium	7440-23-5	87.0	J	42.6	114		1
07968	Strontium	7440-24-6	14.6		0.0708	0.571		1
06969	Tin	7440-31-5	3.13	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,210		0.434	1.14		1
10146	Zirconium	7440-67-7	4.00	J	0.960	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0941	J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.29		0.0905	0.453		2
06126	Barium	7440-39-3	78.8		0.122	0.453		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5A-SB-4.0-5.0

LLI Sample # SW 6253029
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 15:23

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL088 SDG#: DE121-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	The in-house, statistical, acceptance window for Barium is 81% - 111%. The LCS recovery for this sample was 114%, which is within the method windows of 80% - 120%. The data was accepted after consultation with the client.						
06127	Beryllium	7440-41-7	0.589	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0758 J	0.0453	0.113		2
06131	Chromium	7440-47-3	19.4	0.136	0.453		2
06132	Cobalt	7440-48-4	5.95	0.0226	0.113		2
06133	Copper	7440-50-8	6.98	0.0747	0.453		2
06135	Lead	7439-92-1	5.28	0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.595	0.0566	0.113		2
06139	Nickel	7440-02-0	11.4	0.113	0.453		2
06141	Selenium	7782-49-2	0.163 J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0441 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.317	0.0339	0.113		2
06148	Vanadium	7440-62-2	39.1	0.0249	0.113		2
06149	Zinc	7440-66-6	60.1	0.634	3.39		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	251	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.64	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-088-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5A-SB-4.0-5.0

LLI Sample # SW 6253029
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 15:23

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL088 SDG#: DE121-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-088-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111021AA	04/12/2011 18:31	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110982AA	04/09/2011 00:53	Sara E Johnson	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201109824062	04/08/2011 15:30	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201109824062	04/08/2011 15:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201109824062	04/08/2011 15:36	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201109824062	04/08/2011 15:30	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11103SLB026	04/16/2011 17:25	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11103SLC026	04/15/2011 00:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11103SLC026	04/14/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11103SLB026	04/14/2011 02:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111040008A	04/15/2011 15:48	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111040008A	04/14/2011 16:05	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111025708001	04/16/2011 08:39	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111025708001	04/16/2011 08:39	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111025708001	04/16/2011 08:39	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111025708001	04/18/2011 17:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	111025708001	04/16/2011 08:39	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111025708001	04/16/2011 08:39	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111025708001	04/16/2011 08:39	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111025708001	04/16/2011 08:39	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111025708001	04/16/2011 08:39	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111025708001	04/16/2011 08:39	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111025708001	04/16/2011 08:39	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111025708001	04/16/2011 08:39	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111025708001	04/16/2011 08:39	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111025708001	04/16/2011 08:39	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111021026001A	04/13/2011 10:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111021026001A	04/13/2011 10:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111021026001D	04/13/2011 10:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111021026001A	04/13/2011 10:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111021026001A	04/13/2011 10:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111021026001A	04/13/2011 10:03	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5A-SB-4.0-5.0

LLI Sample # SW 6253029
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 15:23

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL088 SDG#: DE121-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111021026001A	04/13/2011 10:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111021026001A	04/13/2011 10:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111021026001A	04/13/2011 10:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111021026001C	04/13/2011 10:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111021026001A	04/13/2011 10:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111021026001B	04/13/2011 10:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111021026001A	04/13/2011 10:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111021026001A	04/13/2011 10:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111021026001A	04/13/2011 10:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111021026001A	04/13/2011 10:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111025711002	04/13/2011 09:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111025708001	04/12/2011 21:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111021026001	04/12/2011 21:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111025711002	04/12/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11110495201A	04/21/2011 13:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11101101201B	04/26/2011 01:27	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11107243201A	04/19/2011 06:40	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11110495201A	04/20/2011 23:50	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11101101201B	04/11/2011 13:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11101182103B	04/11/2011 14:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11101039401B	04/11/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11107243201A	04/17/2011 06:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401B	04/11/2011 21:23	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: TB-040711 Water
SSFL Area IV Collocated Soil Sampling
TB-040711

LLI Sample # WW 6253030
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 08:00

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB407 SDG#: DE121-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

REVISED

Sample Description: TB-040711 Water
SSFL Area IV Collocated Soil Sampling
TB-040711

LLI Sample # WW 6253030
LLI Group # 1241175
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 08:00

Submitted: 04/08/2011 09:35
Reported: 05/18/2011 11:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB407 SDG#: DE121-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111011AA	04/11/2011	05:50	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110981AA	04/08/2011	17:04	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110981AA	04/08/2011	17:04	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111011AA	04/11/2011	05:50	Holly Berry	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11103B20A	04/14/2011	15:21	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11103B20A	04/14/2011	15:21	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241175
Reported: 05/18/11 at 11:36 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111021AA	Sample number(s): 6253025-6253029									
Acetone	6.7	U	6.7	8.0	ug/kg	83	91	32-209	9	30
Benzene	0.10	U	0.10	4.0	ug/kg	108	104	80-120	3	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	105	104	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	121	120	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94	94	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	87	90	70-120	4	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	84	79	32-162	6	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	85	97	46-153	13	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	108	104	72-120	4	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	112	107	75-120	4	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	103	100	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	95	92	69-122	4	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	99	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	85	80	37-154	6	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	71	73	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	102	99	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	94	91	54-132	3	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104	102	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	105	101	79-120	4	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	64	59	22-131	7	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	82	96	58-120	16	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	90	91	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96	99	80-120	3	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	95	97	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100	99	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	103	101	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	103	101	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	85	80	20-120	6	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	102	100	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	93	94	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113	107	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	102	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106	104	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	100	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	96	97	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	89	88	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	102	98	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	93	92	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	85	86	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101	98	80-120	3	30
Freon 113	0.11	U	0.11	4.0	ug/kg	116	109	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	99	97	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	104	100	57-120	4	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	86	100	45-155	14	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101	98	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108	103	75-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241175
Reported: 05/18/11 at 11:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	88	93	74-121	5	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	86	99	61-134	14	30
Methylene Chloride	0.64	J	0.24	4.0	ug/kg	107	104	76-124	3	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	111	107	77-120	3	30
Styrene	0.10	U	0.10	4.0	ug/kg	95	94	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	93	93	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	99	106	71-123	7	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	106	100	77-120	6	30
Toluene	0.08	U	0.08	4.0	ug/kg	105	101	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	97	100	64-120	3	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	92	93	68-120	0	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	93	91	71-125	3	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97	101	80-120	3	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	98	80-120	3	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	100	96	58-133	5	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	97	105	71-123	8	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	105	101	79-120	3	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107	103	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	95	91	53-120	4	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	102	98	80-120	4	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	97	95	80-120	2	30
Batch number: E110981AA	Sample number(s): 6253030									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	113	113	80-123	0	30
Batch number: E110982AA	Sample number(s): 6253025-6253029									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	115	110	70-130	4	30
Batch number: Y111011AA	Sample number(s): 6253030									
Acetone	6	U	6.	20	ug/l	130	115	49-234	12	30
Benzene	0.5	U	0.5	5	ug/l	108	109	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	110	111	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	113	114	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	106	107	80-120	1	30
Bromoform	1	U	1.	5	ug/l	94	96	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	108	108	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	117	118	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	98	101	74-120	4	30
sec-Butylbenzene	1	U	1.	5	ug/l	103	105	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	102	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	110	111	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	108	108	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	98	98	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	104	106	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	111	111	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	103	89	60-129	14	30
2-Chlorotoluene	1	U	1.	5	ug/l	104	107	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	102	107	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	65	58	38-136	10	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	96	99	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	104	105	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	107	111	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	110	110	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	104	106	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	107	108	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	106	108	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	95	88	47-120	8	30
1,1-Dichloroethane	1	U	1.	5	ug/l	109	109	79-120	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241175
Reported: 05/18/11 at 11:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	116	116	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	105	99	74-123	6	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	108	108	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	105	105	80-120	0	30
1,2-Dichloropropane	1	U	1.	5	ug/l	104	106	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	105	108	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	98	100	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	106	107	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	101	102	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	95	97	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	105	105	79-120	0	30
Freon 113	2	U	2.	10	ug/l	114	105	69-128	8	30
Freon 133a	2	U	2.	5	ug/l	117	112	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	104	58-120	9	30
2-Hexanone	3	U	3.	10	ug/l	104	105	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	105	106	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	103	105	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	107	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	103	106	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	105	103	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	105	107	80-120	2	30
Styrene	1	U	1.	5	ug/l	100	100	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	104	106	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	105	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	111	111	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	104	105	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	102	107	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	95	99	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	109	109	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	107	108	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	108	110	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	119	120	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	107	113	80-120	5	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	105	74-120	3	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	104	105	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	95	91	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	105	105	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	101	105	80-120	3	30
Batch number: 11098SLB026	Sample number(s): 6253028									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	79		70-130		
Batch number: 11103SLB026	Sample number(s): 6253025-6253029									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	29		15-121		
Benzoic acid	170 U		170.	500	ug/kg	96		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	96		79-117		
Carbazole	33	U	33.	170	ug/kg	102		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	28		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	85		68-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241175
Reported: 05/18/11 at 11:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	33	U	33.	170	ug/kg	94		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	99		79-110		
Dibenzofuran	33	U	33.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	56		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	102		75-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	86		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	91		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	102		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	101		77-111		
Hexachlorobenzene	33	U	33.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	78		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	82		68-105		
Isophorone	33	U	33.	170	ug/kg	92		69-110		
2-Methylphenol	67	U	67.	170	ug/kg	96		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	104		66-117		
2-Nitroaniline	33	U	33.	170	ug/kg	102		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	86		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	95		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	95		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	100		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	82		63-107		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	100		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	78		51-117		
Phenol	33	U	33.	170	ug/kg	97		58-112		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 11103SLC026	Sample number(s): 6253025-6253029									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	97		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	76		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	89		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	75		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	113		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	107		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	86		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241175
Reported: 05/18/11 at 11:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	120		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	86		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	47*		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	97		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		56-121		
Batch number: 11101A34A	Sample number(s): 6253028									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	82	75	67-119	9	30
Batch number: 11103B20A	Sample number(s): 6253030									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 111010012A	Sample number(s): 6253028									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	110		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	97	54-134	1	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	96	54-134	1	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
HMX	100 U		100.	300	ug/kg	100		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	109		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800 U		800.	2,400	ug/kg	115		80-120		
RDX	50	U	50.	120	ug/kg	97		75-131		
Tetryl	61	U	61.	120	ug/kg	87		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
Batch number: 111010003A	Sample number(s): 6253028									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	92	104	80-126	12	50
Batch number: 111040008A	Sample number(s): 6253025-6253029									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	87	81	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	87		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	100		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241175
Reported: 05/18/11 at 11:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111040015A	Sample number(s): 6253028									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	118*		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	126*		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	128*		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	88		66-113		
Batch number: 111010022A	Sample number(s): 6253028									
Diethylene glycol	5.0	U	5.0	13	mg/kg	113		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	113		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Batch number: 111010040A	Sample number(s): 6253028									
Ethanol	100	U	100.	500	ug/kg	88		71-129		
Isopropanol	100	U	100.	500	ug/kg	92		75-125		
Methanol	100	U	100.	500	ug/kg	90		68-129		
Batch number: 111030030A	Sample number(s): 6253028									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	80		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	75		75-125		
Batch number: 111021026001A	Sample number(s): 6253025-6253029									
Antimony	0.0600	U	0.0600	0.200	mg/kg	177		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.162	J	0.0660	0.400	mg/kg	105		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	100		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	101		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	106		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	102		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	114		87-117		
Zinc	0.560	U	0.560	3.00	mg/kg	101		81-112		
Batch number: 111021026001B	Sample number(s): 6253025-6253029									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		83-111		
Batch number: 111021026001C	Sample number(s): 6253025-6253029									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	117		78-122		
Batch number: 111021026001D	Sample number(s): 6253025-6253029									
Barium	0.108	U	0.108	0.400	mg/kg	115*		81-111		
Batch number: 111025708001	Sample number(s): 6253025-6253029									
Aluminum	29.3		5.03	20.0	mg/kg	89		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	91		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	105		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	103		61-110		
Lithium	0.33	J	0.22	2.0	mg/kg	98		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	100		82-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241175
Reported: 05/18/11 at 11:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.0780	U	0.0780	0.500	mg/kg	103		89-112		
Phosphorus	1.22	J	0.560	10.0	mg/kg	99		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	98		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	101		86-110		
Tin	1.28	J	1.00	10.0	mg/kg	104		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	96		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	105		80-120		
Batch number: 111025711002	Sample number(s): 6253025-6253029									
Mercury	0.0028	U	0.0028	0.0978	mg/kg	95		88-123		
Batch number: 11101101201A	Sample number(s): 6253025									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11101101201B	Sample number(s): 6253026-6253029									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11102102201B	Sample number(s): 6253028									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11107243201A	Sample number(s): 6253025-6253029									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	98		80-120		
Batch number: 11110495201A	Sample number(s): 6253025-6253029									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11101039401A	Sample number(s): 6253025-6253027									
18a pH by 9045C						99		95-105		
Batch number: 11101039401B	Sample number(s): 6253028-6253029									
18a pH by 9045C						99		95-105		
Batch number: 11101182103A	Sample number(s): 6253025-6253028									
32a OR Potential						99		98-102		
Batch number: 11101182103B	Sample number(s): 6253029									
32a OR Potential						99		98-102		
Batch number: 11101162401B	Sample number(s): 6253025-6253027,6253029									
Moisture Content by 160.3						100		80-120		
Batch number: 11109162401A	Sample number(s): 6253028									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11098SLB026	Sample number(s): 6253028 UNSPK: P244296								

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodimethylamine	71	75	70-130	6	30				
Batch number: 11103SLB026	Sample number(s): 6253025-6253029 UNSPK: P255761								
Aniline	62	61	35-95	1	30				
Benzidine	15*	21*	35-141	37*	30				
Benzoic acid	96	79	10-173	19	30				
Benzyl alcohol	92	90	67-115	1	30				
4-Bromophenyl-phenylether	91	87	67-129	4	30				
Carbazole	97	93	64-120	4	30				
4-Chloro-3-methylphenol	98	94	76-110	3	30				
4-Chloroaniline	42	44	23-95	6	30				
bis(2-Chloroethoxy)methane	93	88	75-104	4	30				
bis(2-Chloroethyl)ether	90	85	60-116	5	30				
bis(2-Chloroisopropyl)ether	82	80	55-142	2	30				
2-Chloronaphthalene	93	88	50-141	4	30				
2-Chlorophenol	96	95	73-121	1	30				
4-Chlorophenyl-phenylether	95	90	80-109	5	30				
Dibenzofuran	96	93	71-112	3	30				
1,2-Dichlorobenzene	79	79	66-108	0	30				
1,3-Dichlorobenzene	79	77	63-109	2	30				
1,4-Dichlorobenzene	80	78	70-100	2	30				
3,3'-Dichlorobenzidine	74	72	16-119	3	30				
2,4-Dichlorophenol	99	96	78-117	3	30				
2,4-Dimethylphenol	94	94	78-110	0	30				
3,5-Dimethylphenol	99	95	70-130	4	30				
4,6-Dinitro-2-methylphenol	62	50	24-116	21	30				
2,4-Dinitrophenol	57	37	20-143	41*	30				
2,4-Dinitrotoluene	98	92	73-113	7	30				
2,6-Dinitrotoluene	97	91	69-123	6	30				
1,2-Diphenylhydrazine	98	95	71-129	3	30				
Hexachlorobenzene	93	89	77-114	4	30				
Hexachlorobutadiene	85	79	62-120	7	30				
Hexachlorocyclopentadiene	54	43	10-153	24	30				
Hexachloroethane	77	75	57-109	2	30				
Isophorone	92	86	73-102	6	30				
2-Methylphenol	95	96	75-111	1	30				
4-Methylphenol	103	101	71-111	2	30				
2-Nitroaniline	99	96	67-125	3	30				
3-Nitroaniline	92	88	59-122	4	30				
4-Nitroaniline	73	78	52-112	7	30				
Nitrobenzene	93	88	72-106	5	30				
2-Nitrophenol	92	86	74-115	6	30				
4-Nitrophenol	95	90	54-113	5	30				
N-Nitroso-di-n-propylamine	74	83	60-116	13	30				
N-Nitrosodiphenylamine	97	95	86-145	2	30				
Pentachlorophenol	75	73	28-127	2	30				
Phenol	96	93	58-126	2	30				
1,2,4-Trichlorobenzene	90	85	72-115	5	30				
2,4,5-Trichlorophenol	97	95	78-109	2	30				
2,4,6-Trichlorophenol	97	92	77-115	5	30				
Batch number: 11103SLC026	Sample number(s): 6253025-6253029 UNSPK: P255761								
Acenaphthene	97	138*	63-105	34*	30				

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Quality Control Summary

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Reported: 05/18/11 at 11:36 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthylene	96	110	67-114	13	30				
Anthracene	100	145*	60-122	34*	30				
Benzo(a)anthracene	94	89	59-128	6	30				
Benzo(a)pyrene	75	74	45-138	3	30				
Benzo(b)fluoranthene	89	81	43-155	10	30				
Benzo(g,h,i)perylene	77	11*	33-141	59*	30				
Benzo(k)fluoranthene	73	75	42-144	1	30				
Butylbenzylphthalate	119	115	57-173	4	30				
Di-n-butylphthalate	87	88	65-148	1	30				
Chrysene	94	91	48-134	4	30				
Dibenz(a,h)anthracene	83	82	22-133	2	30				
Diethylphthalate	78	79	70-136	0	30				
Dimethylphthalate	97	102	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	102	104	39-167	0	30				
Fluoranthene	107	111	26-166	2	30				
Fluorene	93	120	66-122	24	30				
Indeno(1,2,3-cd)pyrene	76	57	21-143	20	30				
1-Methylnaphthalene	93	135*	72-123	36*	30				
2-Methylnaphthalene	82	99	64-103	18	30				
Naphthalene	89	113*	61-102	23	30				
N-Nitrosodimethylamine	52	49	48-113	5	30				
Di-n-octylphthalate	93	89	40-192	6	30				
Phenanthrene	92	117	12-165	22	30				
Pyrene	102	90	15-153	10	30				
Batch number: 11101A34A	Sample number(s): 6253028 UNSPK: P255761								
9a TPH by EPA 8015B Gas C5-C12	55	72	39-118	26	30				
Batch number: 111010012A	Sample number(s): 6253028 UNSPK: P245566								
4-Amino-2,6-Dinitrotoluene	109	109	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	110	110	80-137	1	50				
1,3-Dinitrobenzene	108	108	38-166	0	50				
2,4-Dinitrotoluene	106	106	80-131	0	50				
2,6-Dinitrotoluene	106	108	80-127	1	50				
HMX	98	99	63-128	1	50				
Nitrobenzene	104	103	80-125	1	50				
Nitroglycerin	95	96	80-120	0	50				
2-Nitrotoluene	104	106	80-122	1	50				
3-Nitrotoluene	108	109	72-119	1	50				
4-Nitrotoluene	106	106	80-125	0	50				
PETN	115	116	80-121	0	50				
RDX	93	93	75-129	0	50				
Tetryl	84	87	55-174	3	50				
1,3,5-Trinitrobenzene	108	108	82-126	1	50				
2,4,6-Trinitrotoluene	109	110	82-130	1	50				
Batch number: 111010003A	Sample number(s): 6253028 UNSPK: P250041								
25a Formaldehyde 8315A	90	87	80-120	3	50				
Batch number: 111040008A	Sample number(s): 6253025-6253029 UNSPK: P255761								
PCB-1016	76	91	29-146	18	50				
PCB-1260	103	106	39-149	3	50				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241175
Reported: 05/18/11 at 11:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111040015A	Sample number(s): 6253028			UNSPK: P255761					
EFH (C12-C14)	274*	119	49-123	79*	20				
EFH (C15-C20)	210*	119	49-123	45*	20				
EFH (C21-C30)	142*	140*	49-123	1	20				
EFH (C30 - C40)	143*	121	49-123	14	20				
EFH (C8-C11)	127*	95	49-123	29*	20				
Batch number: 111010022A	Sample number(s): 6253028			UNSPK: 6253028					
Diethylene glycol	69	88	59-109	23*	20				
Ethylene glycol	80	89	63-107	11	20				
Propylene glycol	82	87	63-107	5	20				
Batch number: 111010040A	Sample number(s): 6253028			UNSPK: P251858					
Ethanol	73	72	48-130	2	20				
Isopropanol	77	77	12-149	1	20				
Methanol	74	73	43-138	1	20				
Batch number: 111030030A	Sample number(s): 6253028			UNSPK: P250041					
m-Terphenyl	78	78	75-125	0	20				
o-Terphenyl	90	90	75-125	0	20				
p-Terphenyl	74*	74*	75-125	0	20				
Batch number: 111021026001A	Sample number(s): 6253025-6253029			UNSPK: P255761		BKG: P255761			
Antimony	90	73*	75-125	16	20	0.0837 J	0.150 J	57* (1)	20
Arsenic	126*	122	75-125	0	20	2.59	2.44	6	20
Beryllium	117	110	75-125	2	20	0.428	0.430	0 (1)	20
Cadmium	123	107	75-125	10	20	0.141	0.170	18 (1)	20
Chromium	131*	127*	75-125	0	20	12.6	12.7	1	20
Cobalt	112	101	75-125	7	20	4.55	4.69	3	20
Copper	133*	124	75-125	2	20	8.73	9.43	8	20
Lead	151*	150*	75-125	1	20	4.19	4.36	4	20
Nickel	134*	127*	75-125	2	20	8.70	8.75	1	20
Silver	110	101	75-125	6	20	0.0239 J	0.0237 J	1 (1)	20
Thallium	133*	112	75-125	10	20	0.215	0.245	13 (1)	20
Vanadium	160*	177*	75-125	5	20	22.7	24.3	7	20
Zinc	180 (2)	185 (2)	75-125	2	20	45.9	47.7	4	20
Batch number: 111021026001B	Sample number(s): 6253025-6253029			UNSPK: P255761		BKG: P255761			
Selenium	108	97	75-125	7	20	0.104 J	0.0963 J	8 (1)	20
Batch number: 111021026001C	Sample number(s): 6253025-6253029			UNSPK: P255761		BKG: P255761			
Molybdenum	112	100	75-125	8	20	0.355	0.441	21* (1)	20
Batch number: 111021026001D	Sample number(s): 6253025-6253029			UNSPK: P255761		BKG: P255761			
Barium	311 (2)	98 (2)	75-125	17	20	96.3	97.8	2	20
Batch number: 111025708001	Sample number(s): 6253025-6253029			UNSPK: P255761		BKG: P255761			
Aluminum	2160 (2)	1678 (2)	75-125	6	20	12,700	12,000	5	20
Boron	95	96	84-115	2	20	2.32 J	2.52 J	9 (1)	20
Calcium	135 (2)	136 (2)	75-125	0	20	1,900	1,800	6	20
Iron	373 (2)	-1674 (2)	75-125	12	20	17,900	15,800	12	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241175
Reported: 05/18/11 at 11:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Lithium	103	104	82-114	1	20	17.3		16.7		4	20
Magnesium	205 (2)	125 (2)	75-125	4	20	3,430		3,270		5	20
Manganese	115 (2)	95 (2)	75-125	4	20	225		218		3	20
Phosphorus	73*	52*	75-125	6	20	289		261		10	20
Potassium	120	135*	75-125	4	20	2,920		3,000		3	20
Sodium	98	98	75-125	0	20	113		108		5 (1)	20
Strontium	97	98	75-115	1	20	18.7		17.5		6	20
Tin	89	90	80-110	1	20	2.53	J	2.42	J	5 (1)	20
Titanium	265 (2)	262 (2)	75-125	0	20	1,010		986		2	20
Zirconium	98	100	75-125	2	20	4.09	J	3.25	J	23* (1)	20
Batch number: 111025711002	Sample number(s): 6253025-6253029 UNSPK: P255761 BKG: P255761										
Mercury	93	94	65-135	2	20	0.0028	U	0.0027	U	0 (1)	20
Batch number: 11101101201A	Sample number(s): 6253025 UNSPK: P247206 BKG: P247206										
7a Perchlorate EPA 314.0	97		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11101101201B	Sample number(s): 6253026-6253029 UNSPK: 6253026 BKG: 6253026										
7a Perchlorate EPA 314.0	101		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11102102201B	Sample number(s): 6253028 UNSPK: P245570 BKG: P245570										
17a Cyanide by 9012B	115		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11107243201A	Sample number(s): 6253025-6253029 UNSPK: P245568 BKG: P245568										
3a Cr VI by EPA 7199	92		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11110495201A	Sample number(s): 6253025-6253029 UNSPK: 6253025 BKG: 6253025										
11a Anions by 300.0 - Fluoride	85		80-120			1.2		1.4		11 (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			1.6		1.4	J	16 (1)	20
Batch number: 11101039401A	Sample number(s): 6253025-6253027 BKG: P248206										
18a pH by 9045C						7.33		7.35		0	1
Batch number: 11101039401B	Sample number(s): 6253028-6253029 BKG: 6253028										
18a pH by 9045C						8.27		8.26		0	1
Batch number: 11101182103A	Sample number(s): 6253025-6253028 BKG: P248206										
32a OR Potential						272		268		1	6
Batch number: 11101182103B	Sample number(s): 6253029 BKG: P248207										
32a OR Potential						282		288		2	6
Batch number: 11101162401B	Sample number(s): 6253025-6253027,6253029 BKG: 6253029										
Moisture Content by 160.3						14.2		13.5		5	20
Batch number: 11109162401A	Sample number(s): 6253028 BKG: P251858										
Moisture Content by 160.3						11.5		11.6		1	20

Surrogate Quality Control

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241175
Reported: 05/18/11 at 11:36 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111021AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6253025	96	97	100	87
6253026	98	98	98	90
6253027	97	97	97	90
6253028	99	104	98	90
6253029	97	96	99	88
Blank	97	97	98	88
LCS	97	99	101	96
LCSD	98	101	101	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110981AA

	Toluene-d8
6253030	101
Blank	101
LCS	101
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110982AA

	Toluene-d8
6253025	98
6253026	98
6253027	98
6253028	97
6253029	97
Blank	98
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111011AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6253030	103	103	100	94
Blank	102	101	101	95
LCS	103	103	100	97
LCSD	103	105	100	96
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11098SLB026

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241175
Reported: 05/18/11 at 11:36 AM

Surrogate Quality Control

	N-Nitrosodimethylamine-d6
6253028	97
Blank	99
LCS	108
MS	115
MSD	112
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11103SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6253025	94	97	98	87	88	92
6253026	98	101	95	88	87	90
6253027	95	96	102	86	87	93
6253028	98	98	99	85	85	90
6253029	96	97	95	88	87	91
Blank	88	94	90	87	87	79
LCS	96	99	103	90	92	87
MS	92	95	94	88	87	87
MSD	91	93	92	83	83	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11103SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6253025	95	90	103
6253026	102	92	100
6253027	96	89	98
6253028	80	77	81
6253029	98	92	100
Blank	102	99	118
LCS	97	93	103
MS	98	89	108
MSD	99	94	114
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11101A34A

	Trifluorotoluene-F
6253028	75
Blank	85
LCS	98
LCSD	91
MS	74
MSD	83
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241175
Reported: 05/18/11 at 11:36 AM

Surrogate Quality Control

Batch number: 11103B20A

	Trifluorotoluene-F
6253030	87
Blank	85
LCS	115
LCSD	117
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111010003A

	Butyraldehyde
6253028	95
Blank	76
LCS	92
LCSD	98
MS	85
MSD	82
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111010012A

	2-Nitro-m-xylene
6253028	138
Blank	132
LCS	136
LCSD	133
MS	130
MSD	126
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111040008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6253025	84	99
6253026	84	96
6253027	83	97
6253028	72	89
6253029	86	98
Blank	86	104
LCS	82	99
LCSD	81	103
MS	74	93
MSD	76	100
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 111010022A

	Tetramethylene glycol

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241175
Reported: 05/18/11 at 11:36 AM

Surrogate Quality Control

6253028	73
Blank	97
LCS	99
MS	100
MSD	88
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111010040A

	Acetone
6253028	93
Blank	114
LCS	112
MS	93
MSD	92
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111030030A

	n-Triacontane-d62
6253028	46*
Blank	76
LCS	76
MS	76
MSD	74
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111040015A

	Chlorobenzene	Orthoterphenyl
6253028	75	84
Blank	95	106
LCS	95	110
MS	86	108
MSD	93	117
Limits:	37-125	47-145

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(2) The unspiked result was more than four times the spike added.

13013 1241175 6253025-30

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Diane

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010A/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-079-SA5A-SB-4.5	04.07.11	1103	SOIL	NONE	4-Encores										X	X											
SL-079-SA5A-SB-4.0-5.0	04.07.11	1105	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-080-SA5A-SB-3.5	04.07.11	0955	SOIL	NONE	4-Encores										X	X											
SL-080-SA5A-SB-3.0-4.0	04.07.11	0958	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-081-SA5A-SB-2.5	04.07.11	0855	SOIL	NONE	4-Encores										X	X											
SL-081-SA5A-SB-2.0-3.0	04.07.11	0900	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-258-SA5A-SB-4.5	04.07.11	1400	SOIL	NONE	5-Encores										X	X	X										
SL-258-SA5A-SB-4.0-5.0	04.07.11	1403	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-088-SA5A-SB-4.5	04.07.11	1520	SOIL	NONE	4-Encores										X	X											
SL-088-SA5A-SB-4.0-5.0	04.07.11	1523	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
TB-040711	04.07.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/07/2011 / 1700 — Received for Laboratory by: (Signature) Kristin Engle 4-8-11 0935 — Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time — Airbill No.(s) 8695 1432 3633

May 18, 2011

Mr. Todd Burgesser
CDM
Suite 1100, 555 17th Street
Denver, CO 80202

Dear Mr. Burgesser:

I am writing to inform you of revised analytical reports that are being issued for the following:

Project No. SSFL Area IV Collocated Soil Sampling
Group No. 1241175 **SDG: DE121**

LLI Sample No.	Client Sample Identification	Collection Date
6253025	SL-079-SA5A-SB-4.0-5.0 Soil	04/07/2011
6253026	SL-080-SA5A-SB-3.0-4.0 Soil	04/07/2011
6253027	SL-081-SA5A-SB-2.0-3.0 Soil	04/07/2011
6253028	SL-258-SA5A-SB-4.0-5.0 Soil	04/07/2011
6253029	SL-088-SA5A-SB-4.0-5.0 Soil	04/07/2011

The correction to the data affects the barium analysis only.

During data package review, it was noted that the barium Laboratory Control Sample was out of specification high for these samples. It was missed due to the acceptance window being incorrect with a range of 81% to 980%. The Laboratory Control Sample range has been corrected to 81% to 111% on the QC Summary and a comment has been added to the samples with results greater than the reporting limit.

The revised analytical report reflects this correction and is enclosed.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1923. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,

Jennifer L. Moyer
Senior Specialist
Metals

JLM/mcs
Enclosures

cc: Nicole Maljovec

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/08/2011
Group Number: 1241179
SDG: DX066
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-079-SA5A-SB-4.0-5.0 Soil	6253087
SL-080-SA5A-SB-3.0-4.0 Soil	6253088
SL-081-SA5A-SB-2.0-3.0 Soil	6253089
SL-258-SA5A-SB-4.0-5.0 Soil	6253090
SL-088-SA5A-SB-4.0-5.0 Soil	6253091

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-079-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA5A-SB-4.0-5.0

LLI Sample # SW 6253087
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 11:05

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX066-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-079-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA5A-SB-4.0-5.0

LLI Sample # SW 6253087
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 11:05

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX066-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0153 JBQ	0.0143	1.10	1
11031	12378-PeCDD	40321-76-4	0.0489 JBQ	0.0141	5.48	1
11031	123478-HxCDD	39227-28-6	0.0320 JBQ	0.0148	5.48	1
11031	123678-HxCDD	57653-85-7	0.0775 JBQ	0.0148	5.48	1
11031	123789-HxCDD	19408-74-3	0.109 JB	0.0141	5.48	1
11031	1234678-HpCDD	35822-46-9	1.09 JB	0.0260	5.48	1
11031	OCDD	3268-87-9	7.80 JB	0.0308	11.0	1
11031	2378-TCDF	51207-31-9	0.0131 U	0.0131	1.10	1
11031	12378-PeCDF	57117-41-6	0.0508 JBQ	0.00945	5.48	1
11031	23478-PeCDF	57117-31-4	0.0948 JB	0.00868	5.48	1
11031	123478-HxCDF	70648-26-9	0.0836 JBQ	0.0207	5.48	1
11031	123678-HxCDF	57117-44-9	0.0528 JBQ	0.0145	5.48	1
11031	123789-HxCDF	72918-21-9	0.100 JB	0.0119	5.48	1
11031	234678-HxCDF	60851-34-5	0.151 JB	0.0105	5.48	1
11031	1234678-HpCDF	67562-39-4	0.267 JB	0.0129	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0436 JB	0.0114	5.48	1
11031	OCDF	39001-02-0	0.366 JB	0.0245	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	51	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-079-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA5A-SB-4.0-5.0

LLI Sample # SW 6253087
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 11:05

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX066-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-079-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA5A-SB-4.0-5.0

LLI Sample # SW 6253087
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 11:05

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX066-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11102002	04/14/2011 18:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11102002	04/12/2011 11:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401B	04/11/2011 21:23	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-080-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA5A-SB-3.0-4.0

LLI Sample # SW 6253088
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:58

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD080 SDG#: DX066-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-080-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA5A-SB-3.0-4.0

LLI Sample # SW 6253088
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:58

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD080 SDG#: DX066-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0256 JQ	0.0214	1.10	1
11031	12378-PeCDD	40321-76-4	0.211 JBQ	0.0304	5.51	1
11031	123478-HxCDD	39227-28-6	0.461 J	0.0385	5.51	1
11031	123678-HxCDD	57653-85-7	1.03 JB	0.0397	5.51	1
11031	123789-HxCDD	19408-74-3	0.942 JBQ	0.0384	5.51	1
11031	1234678-HpCDD	35822-46-9	48.5 B	0.0616	5.51	1
11031	OCDD	3268-87-9	479 B	0.0604	11.0	1
11031	2378-TCDF	51207-31-9	0.0277 U	0.0277	1.10	1
11031	12378-PeCDF	57117-41-6	0.0929 JB	0.0135	5.51	1
11031	23478-PeCDF	57117-31-4	0.110 JBQ	0.0159	5.51	1
11031	123478-HxCDF	70648-26-9	0.150 JBQ	0.0190	5.51	1
11031	123678-HxCDF	57117-44-9	0.145 JB	0.0153	5.51	1
11031	123789-HxCDF	72918-21-9	0.0235 U	0.0235	5.51	1
11031	234678-HxCDF	60851-34-5	0.146 JBQ	0.0173	5.51	1
11031	1234678-HpCDF	67562-39-4	0.916 JB	0.00987	5.51	1
11031	1234789-HpCDF	55673-89-7	0.130 JB	0.0222	5.51	1
11031	OCDF	39001-02-0	1.88 JB	0.0307	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-080-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA5A-SB-3.0-4.0

LLI Sample # SW 6253088
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:58

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD080 SDG#: DX066-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-080-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA5A-SB-3.0-4.0

LLI Sample # SW 6253088
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:58

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD080 SDG#: DX066-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105001	04/19/2011 02:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11105001	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401B	04/11/2011 21:23	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-081-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5A-SB-2.0-3.0

LLI Sample # SW 6253089
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:00

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD081 SDG#: DX066-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-081-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5A-SB-2.0-3.0

LLI Sample # SW 6253089
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:00

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD081 SDG#: DX066-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0301 JQ	0.0244	1.10	1
11031	12378-PeCDD	40321-76-4	0.0372 JBQ	0.0255	5.48	1
11031	123478-HxCDD	39227-28-6	0.0818 JQ	0.0288	5.48	1
11031	123678-HxCDD	57653-85-7	0.192 JBQ	0.0305	5.48	1
11031	123789-HxCDD	19408-74-3	0.240 JBQ	0.0278	5.48	1
11031	1234678-HpCDD	35822-46-9	4.11 JB	0.0340	5.48	1
11031	OCDD	3268-87-9	33.1 B	0.0345	11.0	1
11031	2378-TCDF	51207-31-9	0.0335 JQ	0.0259	1.10	1
11031	12378-PeCDF	57117-41-6	0.0430 JBQ	0.0119	5.48	1
11031	23478-PeCDF	57117-31-4	0.119 JB	0.0128	5.48	1
11031	123478-HxCDF	70648-26-9	0.122 JBQ	0.0234	5.48	1
11031	123678-HxCDF	57117-44-9	0.0403 JBQ	0.0185	5.48	1
11031	123789-HxCDF	72918-21-9	0.0643 JB	0.0229	5.48	1
11031	234678-HxCDF	60851-34-5	0.106 JB	0.0187	5.48	1
11031	1234678-HpCDF	67562-39-4	0.387 JB	0.00969	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0565 JB	0.0194	5.48	1
11031	OCDF	39001-02-0	0.614 JB	0.0318	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-081-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5A-SB-2.0-3.0

LLI Sample # SW 6253089
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:00

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD081 SDG#: DX066-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-081-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5A-SB-2.0-3.0

LLI Sample # SW 6253089
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 09:00

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD081 SDG#: DX066-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105001	04/19/2011 03:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11105001	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401B	04/11/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-258-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-258-SA5A-SB-4.0-5.0

LLI Sample # SW 6253090
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 14:03

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD258 SDG#: DX066-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	18.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-258-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-258-SA5A-SB-4.0-5.0

LLI Sample # SW 6253090
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 14:03

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD258 SDG#: DX066-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0261 U	0.0261	1.19	1
11031	12378-PeCDD	40321-76-4	0.0569 JBQ	0.0294	5.95	1
11031	123478-HxCDD	39227-28-6	0.0489 JQ	0.0290	5.95	1
11031	123678-HxCDD	57653-85-7	0.0838 JB	0.0301	5.95	1
11031	123789-HxCDD	19408-74-3	0.0687 JBQ	0.0277	5.95	1
11031	1234678-HpCDD	35822-46-9	1.57 JB	0.0364	5.95	1
11031	OCDD	3268-87-9	15.8 B	0.0289	11.9	1
11031	2378-TCDF	51207-31-9	0.0419 JQ	0.0355	1.19	1
11031	12378-PeCDF	57117-41-6	0.0926 JBQ	0.0171	5.95	1
11031	23478-PeCDF	57117-31-4	0.118 JB	0.0196	5.95	1
11031	123478-HxCDF	70648-26-9	0.152 JBQ	0.0255	5.95	1
11031	123678-HxCDF	57117-44-9	0.0680 JB	0.0187	5.95	1
11031	123789-HxCDF	72918-21-9	0.116 JBQ	0.0308	5.95	1
11031	234678-HxCDF	60851-34-5	0.112 JB	0.0215	5.95	1
11031	1234678-HpCDF	67562-39-4	0.568 JB	0.0123	5.95	1
11031	1234789-HpCDF	55673-89-7	0.0963 JBQ	0.0268	5.95	1
11031	OCDF	39001-02-0	0.900 JB	0.0403	11.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	54	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	56	28 - 136
13C12-123789-HxCDF	44	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	41	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-258-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-258-SA5A-SB-4.0-5.0

LLI Sample # SW 6253090
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 14:03

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD258 SDG#: DX066-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-258-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-258-SA5A-SB-4.0-5.0

LLI Sample # SW 6253090
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 14:03

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD258 SDG#: DX066-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105001	04/19/2011 04:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11105001	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401A	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5A-SB-4.0-5.0

LLI Sample # SW 6253091
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 15:23

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD088 SDG#: DX066-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-088-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5A-SB-4.0-5.0

LLI Sample # SW 6253091
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 15:23

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD088 SDG#: DX066-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0183 U	0.0183	1.16	1
11031	12378-PeCDD	40321-76-4	0.0265 U	0.0265	5.80	1
11031	123478-HxCDD	39227-28-6	0.0333 JQ	0.0260	5.80	1
11031	123678-HxCDD	57653-85-7	0.0874 JBQ	0.0261	5.80	1
11031	123789-HxCDD	19408-74-3	0.0715 JBQ	0.0226	5.80	1
11031	1234678-HpCDD	35822-46-9	0.913 JB	0.0261	5.80	1
11031	OCDD	3268-87-9	6.97 JB	0.0245	11.6	1
11031	2378-TCDF	51207-31-9	0.0336 U	0.0336	1.16	1
11031	12378-PeCDF	57117-41-6	0.0136 U	0.0136	5.80	1
11031	23478-PeCDF	57117-31-4	0.115 JBQ	0.0162	5.80	1
11031	123478-HxCDF	70648-26-9	0.105 JB	0.0256	5.80	1
11031	123678-HxCDF	57117-44-9	0.0630 JBQ	0.0185	5.80	1
11031	123789-HxCDF	72918-21-9	0.0650 JBQ	0.0212	5.80	1
11031	234678-HxCDF	60851-34-5	0.0890 JBQ	0.0156	5.80	1
11031	1234678-HpCDF	67562-39-4	0.400 JBQ	0.0128	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0542 JBQ	0.0212	5.80	1
11031	OCDF	39001-02-0	0.636 JB	0.0343	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	62	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5A-SB-4.0-5.0

LLI Sample # SW 6253091
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 15:23

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD088 SDG#: DX066-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5A-SB-4.0-5.0

LLI Sample # SW 6253091
LLI Group # 1241179
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/07/2011 15:23

Submitted: 04/08/2011 09:35
Reported: 05/03/2011 17:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD088 SDG#: DX066-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105001	04/19/2011 05:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11105001	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11101162401B	04/11/2011 21:23	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241179
Reported: 05/03/11 at 05:29 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11101162401B	Sample number(s): 6253087-6253089,6253091								
Moisture Content by 160.3					100		80-120		
Batch number: 11109162401A	Sample number(s): 6253090								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11102002	Sample number(s): 6253087								
2378-TCDD	0.0239 J	0.0125	1.00	ng/kg	89		67-158		
12378-PeCDD	0.0307 J	0.0130	5.00	ng/kg	90		70-142		
123478-HxCDD	0.0273 J	0.0122	5.00	ng/kg	89		70-164		
123678-HxCDD	0.0220 J	0.0115	5.00	ng/kg	87		76-134		
123789-HxCDD	0.0366 J	0.00980	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.196 J	0.0170	5.00	ng/kg	88		70-140		
OCDD	1.15 J	0.0332	10.0	ng/kg	88		78-144		
2378-TCDF	0.0120 J	0.0102	1.00	ng/kg	89		75-158		
12378-PeCDF	0.0371 J	0.00670	5.00	ng/kg	87		80-134		
23478-PeCDF	0.0831 J	0.00670	5.00	ng/kg	88		68-160		
123478-HxCDF	0.0690 J	0.0225	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0643 J	0.0160	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0560 J	0.00880	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0978 J	0.00820	5.00	ng/kg	91		70-156		
1234678-HpCDF	0.128 J	0.0146	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0709 J	0.0106	5.00	ng/kg	90		78-138		
OCDF	0.231 J	0.0183	10.0	ng/kg	89		63-170		
Batch number: 11105001	Sample number(s): 6253088-6253091								
2378-TCDD	0.0188 U	0.0188	1.00	ng/kg	90		67-158		
12378-PeCDD	0.0338 J	0.0193	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0154 U	0.0154	5.00	ng/kg	93		70-164		
123678-HxCDD	0.0256 J	0.0164	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0539 J	0.0154	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.347 J	0.0204	5.00	ng/kg	92		70-140		
OCDD	0.581 J	0.0180	10.0	ng/kg	91		78-144		
2378-TCDF	0.0204 U	0.0204	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0319 J	0.00940	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0552 J	0.0105	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0467 J	0.0140	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0341 J	0.0107	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0443 J	0.0163	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0734 J	0.0120	5.00	ng/kg	90		70-156		
1234678-HpCDF	0.160 J	0.00650	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.108 J	0.0135	5.00	ng/kg	92		78-138		
OCDF	0.263 J	0.0245	10.0	ng/kg	90		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241179
Reported: 05/03/11 at 05:29 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11101162401B	Sample number(s): 6253087-6253089,6253091					BKG: P253029			
Moisture Content by 160.3						14.2	13.5	5	20
Batch number: 11109162401A	Sample number(s): 6253090					BKG: P251858			
Moisture Content by 160.3						11.5	11.6	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11102002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6253087	79	68	35	49	69	69
Blank	88	74	28	40	76	78
OPR	72	57	22	30	64	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6253087	51	67	64	87	78	77
Blank	43	73	65	99	88	76
OPR	30	58	45	76	71	51
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6253087	80	82	81	78	70	69
Blank	82	92	89	83	76	79
OPR	60	76	71	67	66	66
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11105001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6253088	70	62	60	74	64	57
6253089	69	64	54	65	63	59

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241179
Reported: 05/03/11 at 05:29 PM

Surrogate Quality Control

6253090	63	54	48	64	56	44
6253091	69	57	38	51	62	52
Blank	71	59	58	73	62	53
OPR	66	57	53	68	59	50
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6253088	93	51	47	82	70	74
6253089	81	50	44	78	67	69
6253090	80	41	41	84	63	66
6253091	67	47	41	81	63	60
Blank	91	50	49	90	71	78
OPR	84	47	46	87	67	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6253088	74	76	75	74	67	79
6253089	70	74	71	65	67	76
6253090	68	71	68	71	59	69
6253091	62	71	67	64	64	74
Blank	75	79	77	75	61	71
OPR	71	72	72	70	59	67
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1241179 6253087-91

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Diane

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-079-SA5A-SB-4.5	04.07.11	1103	SOIL	NONE	4-Encores										X	X											
SL-079-SA5A-SB-4.0-5.0	04.07.11	1105	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-080-SA5A-SB-3.5	04.07.11	0955	SOIL	NONE	4-Encores										X	X											
SL-080-SA5A-SB-3.0-4.0	04.07.11	0958	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-081-SA5A-SB-2.5	04.07.11	0855	SOIL	NONE	4-Encores										X	X											
SL-081-SA5A-SB-2.0-3.0	04.07.11	0900	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-258-SA5A-SB-4.5	04.07.11	1400	SOIL	NONE	5-Encores										X	X	X										
SL-258-SA5A-SB-4.0-5.0	04.07.11	1403	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-088-SA5A-SB-4.5	04.07.11	1520	SOIL	NONE	4-Encores										X	X											
SL-088-SA5A-SB-4.0-5.0	04.07.11	1523	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
TB-040711	04.07.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/07/2011 / 1700 — Received for Laboratory by: (Signature): Kristin Taylor 4-8-11 0935

Received by: (Signature) — Date/Time — Airbill No.(s): 8695 1432 3633

Laboratory: Lancaster Laboratories, inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/12/2011
Group Number: 1241639
SDG: DX067
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-13-SA5A-QC-041111 Soil	6255769
SL-186-SA5A-SB-3.5-4.5 Soil	6255770
SL-187-SA5A-SB-4.0-5.0 Soil	6255771
SL-187-SA5A-SB-4.0-5.0MS Soil	6255772
SL-187-SA5A-SB-4.0-5.0MSD Soil	6255773
SL-188-SA5A-SB-4.5-5.5 Soil	6255774
SL-189-SA5A-SB-5.0-6.0 Soil	6255775
SL-189-SA5A-SB-8.5-9.5 Soil	6255776

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-13-SA5A-QC-041111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5A-QC-041111

LLI Sample # SW 6255769
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:51

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP13 SDG#: DX067-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-13-SA5A-QC-041111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5A-QC-041111

LLI Sample # SW 6255769
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:51

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP13 SDG#: DX067-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0174 JBQ	0.0168	1.16	1
11031	12378-PeCDD	40321-76-4	0.0398 JB	0.0144	5.81	1
11031	123478-HxCDD	39227-28-6	0.0236 JBQ	0.0207	5.81	1
11031	123678-HxCDD	57653-85-7	0.208 JB	0.0199	5.81	1
11031	123789-HxCDD	19408-74-3	0.349 JB	0.0187	5.81	1
11031	1234678-HpCDD	35822-46-9	0.474 JB	0.0204	5.81	1
11031	OCDD	3268-87-9	2.36 JB	0.0248	11.6	1
11031	2378-TCDF	51207-31-9	0.0189 JBQ	0.0134	1.16	1
11031	12378-PeCDF	57117-41-6	0.0535 JBQ	0.00686	5.81	1
11031	23478-PeCDF	57117-31-4	0.110 JBQ	0.00757	5.81	1
11031	123478-HxCDF	70648-26-9	0.0648 JBQ	0.0234	5.81	1
11031	123678-HxCDF	57117-44-9	0.0580 JBQ	0.0150	5.81	1
11031	123789-HxCDF	72918-21-9	0.239 JBQ	0.0175	5.81	1
11031	234678-HxCDF	60851-34-5	0.0766 JB	0.0106	5.81	1
11031	1234678-HpCDF	67562-39-4	0.149 JB	0.0141	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0410 JBQ	0.0180	5.81	1
11031	OCDF	39001-02-0	0.203 JBQ	0.0278	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	48	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-13-SA5A-QC-041111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5A-QC-041111

LLI Sample # SW 6255769
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:51

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP13 SDG#: DX067-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP-13-SA5A-QC-041111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5A-QC-041111

LLI Sample # SW 6255769
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:51

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP13 SDG#: DX067-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11111001	04/25/2011 16:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11111001	04/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-186-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SB-3.5-4.5

LLI Sample # SW 6255770
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:01

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD186 SDG#: DX067-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-186-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SB-3.5-4.5

LLI Sample # SW 6255770
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:01

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD186 SDG#: DX067-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0177 U	0.0177	1.11	1
11031	12378-PeCDD	40321-76-4	0.0639 JBQ	0.0177	5.55	1
11031	123478-HxCDD	39227-28-6	0.0211 U	0.0211	5.55	1
11031	123678-HxCDD	57653-85-7	0.303 JB	0.0226	5.55	1
11031	123789-HxCDD	19408-74-3	0.477 JB	0.0214	5.55	1
11031	1234678-HpCDD	35822-46-9	0.453 JB	0.0277	5.55	1
11031	OCDD	3268-87-9	3.38 JB	0.0345	11.1	1
11031	2378-TCDF	51207-31-9	0.0163 U	0.0163	1.11	1
11031	12378-PeCDF	57117-41-6	0.0641 JB	0.00815	5.55	1
11031	23478-PeCDF	57117-31-4	0.0558 JBQ	0.00850	5.55	1
11031	123478-HxCDF	70648-26-9	0.0321 JBQ	0.0135	5.55	1
11031	123678-HxCDF	57117-44-9	0.0429 JBQ	0.0120	5.55	1
11031	123789-HxCDF	72918-21-9	0.333 JBQ	0.0137	5.55	1
11031	234678-HxCDF	60851-34-5	0.0464 JB	0.0123	5.55	1
11031	1234678-HpCDF	67562-39-4	0.196 JB	0.0107	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0408 JB	0.0153	5.55	1
11031	OCDF	39001-02-0	0.320 JBQ	0.0243	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-186-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SB-3.5-4.5

LLI Sample # SW 6255770
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:01

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD186 SDG#: DX067-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-186-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5A-SB-3.5-4.5

LLI Sample # SW 6255770
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:01

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD186 SDG#: DX067-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118001	05/02/2011 20:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118001	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-187-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255771
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD187 SDG#: DX067-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-187-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255771
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD187 SDG#: DX067-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0188 U	0.0188	1.17	1
11031	12378-PeCDD	40321-76-4	0.0340 JBQ	0.0168	5.87	1
11031	123478-HxCDD	39227-28-6	0.0190 U	0.0190	5.87	1
11031	123678-HxCDD	57653-85-7	0.145 JB	0.0202	5.87	1
11031	123789-HxCDD	19408-74-3	0.244 JB	0.0182	5.87	1
11031	1234678-HpCDD	35822-46-9	0.306 JB	0.0215	5.87	1
11031	OCDD	3268-87-9	1.33 JB	0.0335	11.7	1
11031	2378-TCDF	51207-31-9	0.0169 U	0.0169	1.17	1
11031	12378-PeCDF	57117-41-6	0.0369 JBQ	0.00815	5.87	1
11031	23478-PeCDF	57117-31-4	0.0765 JBQ	0.00885	5.87	1
11031	123478-HxCDF	70648-26-9	0.0306 JBQ	0.0172	5.87	1
11031	123678-HxCDF	57117-44-9	0.0536 JBQ	0.0156	5.87	1
11031	123789-HxCDF	72918-21-9	0.129 JB	0.0117	5.87	1
11031	234678-HxCDF	60851-34-5	0.0510 JBQ	0.0107	5.87	1
11031	1234678-HpCDF	67562-39-4	0.115 JB	0.0116	5.87	1
11031	1234789-HpCDF	55673-89-7	0.0348 JBQ	0.0124	5.87	1
11031	OCDF	39001-02-0	0.192 JB	0.0214	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	44	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-187-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255771
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD187 SDG#: DX067-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-187-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255771
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD187 SDG#: DX067-03BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118001	05/02/2011 21:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118001	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-187-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255772
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD187 SDG#: DX067-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-187-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255772
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD187 SDG#: DX067-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.0		0.0357	1.17	1
11031	12378-PeCDD	40321-76-4	118	B	0.0309	5.83	1
11031	123478-HxCDD	39227-28-6	118	B	0.0646	5.83	1
11031	123678-HxCDD	57653-85-7	118	B	0.0664	5.83	1
11031	123789-HxCDD	19408-74-3	117	B	0.0653	5.83	1
11031	1234678-HpCDD	35822-46-9	116	B	0.0550	5.83	1
11031	OCDD	3268-87-9	237	B	0.0542	11.7	1
11031	2378-TCDF	51207-31-9	24.2		0.0397	1.17	1
11031	12378-PeCDF	57117-41-6	116	B	0.0334	5.83	1
11031	23478-PeCDF	57117-31-4	117	B	0.0323	5.83	1
11031	123478-HxCDF	70648-26-9	118	B	0.0796	5.83	1
11031	123678-HxCDF	57117-44-9	116	B	0.0707	5.83	1
11031	123789-HxCDF	72918-21-9	114	B	0.0762	5.83	1
11031	234678-HxCDF	60851-34-5	118	B	0.0677	5.83	1
11031	1234678-HpCDF	67562-39-4	117	B	0.0555	5.83	1
11031	1234789-HpCDF	55673-89-7	118	B	0.0766	5.83	1
11031	OCDF	39001-02-0	247	B	0.0522	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-187-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255772
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD187 SDG#: DX067-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-187-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255772
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD187 SDG#: DX067-03MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118001	05/02/2011 22:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11118001	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-187-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255773
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD187 SDG#: DX067-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-187-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255773
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD187 SDG#: DX067-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.2		0.0334	1.16	1
11031	12378-PeCDD	40321-76-4	118	B	0.0326	5.82	1
11031	123478-HxCDD	39227-28-6	117	B	0.0482	5.82	1
11031	123678-HxCDD	57653-85-7	119	B	0.0497	5.82	1
11031	123789-HxCDD	19408-74-3	117	B	0.0463	5.82	1
11031	1234678-HpCDD	35822-46-9	117	B	0.0640	5.82	1
11031	OCDD	3268-87-9	237	B	0.0457	11.6	1
11031	2378-TCDF	51207-31-9	24.1		0.0364	1.16	1
11031	12378-PeCDF	57117-41-6	116	B	0.0287	5.82	1
11031	23478-PeCDF	57117-31-4	117	B	0.0299	5.82	1
11031	123478-HxCDF	70648-26-9	118	B	0.0978	5.82	1
11031	123678-HxCDF	57117-44-9	116	B	0.0845	5.82	1
11031	123789-HxCDF	72918-21-9	115	B	0.0928	5.82	1
11031	234678-HxCDF	60851-34-5	119	B	0.0837	5.82	1
11031	1234678-HpCDF	67562-39-4	118	B	0.0531	5.82	1
11031	1234789-HpCDF	55673-89-7	118	B	0.0739	5.82	1
11031	OCDF	39001-02-0	244	B	0.0466	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-187-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255773
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD187 SDG#: DX067-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-187-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5A-SB-4.0-5.0

LLI Sample # SW 6255773
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 15:48

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD187 SDG#: DX067-03MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118001	05/02/2011 23:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11118001	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-188-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SB-4.5-5.5

LLI Sample # SW 6255774
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:54

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD188 SDG#: DX067-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-188-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SB-4.5-5.5

LLI Sample # SW 6255774
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:54

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD188 SDG#: DX067-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0158 U	0.0158	1.13	1
11031	12378-PeCDD	40321-76-4	0.0930 JBQ	0.0184	5.66	1
11031	123478-HxCDD	39227-28-6	0.0301 JBQ	0.0236	5.66	1
11031	123678-HxCDD	57653-85-7	0.317 JBQ	0.0231	5.66	1
11031	123789-HxCDD	19408-74-3	0.456 JB	0.0227	5.66	1
11031	1234678-HpCDD	35822-46-9	0.413 JB	0.0202	5.66	1
11031	OCDD	3268-87-9	2.12 JB	0.0257	11.3	1
11031	2378-TCDF	51207-31-9	0.0158 U	0.0158	1.13	1
11031	12378-PeCDF	57117-41-6	0.110 JBQ	0.0110	5.66	1
11031	23478-PeCDF	57117-31-4	0.143 JB	0.0111	5.66	1
11031	123478-HxCDF	70648-26-9	0.149 JB	0.0180	5.66	1
11031	123678-HxCDF	57117-44-9	0.0633 JBQ	0.0162	5.66	1
11031	123789-HxCDF	72918-21-9	0.429 JB	0.0178	5.66	1
11031	234678-HxCDF	60851-34-5	0.101 JB	0.0155	5.66	1
11031	1234678-HpCDF	67562-39-4	0.205 JB	0.0115	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0714 JBQ	0.0159	5.66	1
11031	OCDF	39001-02-0	0.299 JB	0.0186	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-188-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SB-4.5-5.5

LLI Sample # SW 6255774
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:54

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD188 SDG#: DX067-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-188-SA5A-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5A-SB-4.5-5.5

LLI Sample # SW 6255774
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:54

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD188 SDG#: DX067-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118001	05/03/2011 00:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118001	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-189-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-5.0-6.0

LLI Sample # SW 6255775
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:12

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1895 SDG#: DX067-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-5.0-6.0

LLI Sample # SW 6255775
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:12

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1895 SDG#: DX067-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.173	JB	0.0223	1.20	1
11031	12378-PeCDD	40321-76-4	0.344	JBQ	0.0247	5.99	1
11031	123478-HxCDD	39227-28-6	0.304	JBQ	0.0689	5.99	1
11031	123678-HxCDD	57653-85-7	1.31	JB	0.0592	5.99	1
11031	123789-HxCDD	19408-74-3	1.05	JB	0.0465	5.99	1
11031	1234678-HpCDD	35822-46-9	18.7	B	0.0515	5.99	1
11031	OCDD	3268-87-9	214	B	0.0705	12.0	1
11031	2378-TCDF	51207-31-9	0.124	JB	0.0207	1.20	1
11031	12378-PeCDF	57117-41-6	0.317	JBQ	0.0117	5.99	1
11031	23478-PeCDF	57117-31-4	0.389	JB	0.0116	5.99	1
11031	123478-HxCDF	70648-26-9	0.598	JB	0.106	5.99	1
11031	123678-HxCDF	57117-44-9	0.625	JB	0.0724	5.99	1
11031	123789-HxCDF	72918-21-9	0.972	JB	0.0511	5.99	1
11031	234678-HxCDF	60851-34-5	0.554	JB	0.0316	5.99	1
11031	1234678-HpCDF	67562-39-4	3.72	JB	0.0632	5.99	1
11031	1234789-HpCDF	55673-89-7	0.733	JB	0.0372	5.99	1
11031	OCDF	39001-02-0	7.33	JB	0.0343	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	37	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	36	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-5.0-6.0

LLI Sample # SW 6255775
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:12

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1895 SDG#: DX067-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-189-SA5A-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-5.0-6.0

LLI Sample # SW 6255775
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:12

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1895 SDG#: DX067-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11111001	04/26/2011 00:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11111001	04/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-189-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255776
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:23

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1898 SDG#: DX067-06*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255776
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:23

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1898 SDG#: DX067-06*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0277	JQ	0.0170	1.15	1
11031	12378-PeCDD	40321-76-4	0.108	JBQ	0.0203	5.73	1
11031	123478-HxCDD	39227-28-6	0.0929	JBQ	0.0473	5.73	1
11031	123678-HxCDD	57653-85-7	0.795	JB	0.0485	5.73	1
11031	123789-HxCDD	19408-74-3	0.884	JB	0.0469	5.73	1
11031	1234678-HpCDD	35822-46-9	8.00	B	0.0470	5.73	1
11031	OCDD	3268-87-9	116	B	0.0424	11.5	1
11031	2378-TCDF	51207-31-9	0.113	J	0.0141	1.15	1
11031	12378-PeCDF	57117-41-6	0.127	JB	0.00919	5.73	1
11031	23478-PeCDF	57117-31-4	0.186	JB	0.00919	5.73	1
11031	123478-HxCDF	70648-26-9	0.123	JBQ	0.0408	5.73	1
11031	123678-HxCDF	57117-44-9	0.175	JB	0.0348	5.73	1
11031	123789-HxCDF	72918-21-9	0.629	JB	0.0285	5.73	1
11031	234678-HxCDF	60851-34-5	0.183	JBQ	0.0259	5.73	1
11031	1234678-HpCDF	67562-39-4	1.55	JB	0.0255	5.73	1
11031	1234789-HpCDF	55673-89-7	0.194	JB	0.0248	5.73	1
11031	OCDF	39001-02-0	5.17	JB	0.0242	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-189-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255776
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:23

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1898 SDG#: DX067-06*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-189-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5A-SB-8.5-9.5

LLI Sample # SW 6255776
LLI Group # 1241639
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:23

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1898 SDG#: DX067-06*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118001	05/03/2011 01:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118001	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241639
Reported: 05/09/11 at 09:13 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11126162401A	Sample number(s): 6255769-6255776								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11111001	Sample number(s): 6255769,6255775								
2378-TCDD	0.0407 J	0.0150	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0378 J	0.0115	5.00	ng/kg	108		70-142		
123478-HxCDD	0.0291 J	0.0102	5.00	ng/kg	107		70-164		
123678-HxCDD	0.0354 J	0.0100	5.00	ng/kg	107		76-134		
123789-HxCDD	0.0670 J	0.00980	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.214 J	0.0159	5.00	ng/kg	106		70-140		
OCDD	0.583 J	0.0220	10.0	ng/kg	107		78-144		
2378-TCDF	0.0156 J	0.0116	1.00	ng/kg	121		75-158		
12378-PeCDF	0.0460 J	0.00670	5.00	ng/kg	105		80-134		
23478-PeCDF	0.0785 J	0.00700	5.00	ng/kg	106		68-160		
123478-HxCDF	0.0546 J	0.0159	5.00	ng/kg	108		72-134		
123678-HxCDF	0.0424 J	0.0103	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0880 J	0.0135	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0497 J	0.00810	5.00	ng/kg	109		70-156		
1234678-HpCDF	0.123 J	0.0112	5.00	ng/kg	105		82-122		
1234789-HpCDF	0.0603 J	0.0157	5.00	ng/kg	108		78-138		
OCDF	0.155 J	0.0232	10.0	ng/kg	110		63-170		
Batch number: 11118001	Sample number(s): 6255770-6255774,6255776								
2378-TCDD	0.0169 U	0.0169	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0328 J	0.0168	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0344 J	0.0161	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0404 J	0.0168	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0363 J	0.0163	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.196 J	0.0268	5.00	ng/kg	100		70-140		
OCDD	0.335 J	0.0257	10.0	ng/kg	100		78-144		
2378-TCDF	0.0133 U	0.0133	1.00	ng/kg	108		75-158		
12378-PeCDF	0.0530 J	0.00830	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0749 J	0.00810	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0551 J	0.0121	5.00	ng/kg	102		72-134		
123678-HxCDF	0.0487 J	0.0108	5.00	ng/kg	100		84-130		
123789-HxCDF	0.0825 J	0.0122	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0527 J	0.0105	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.123 J	0.0111	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.0591 J	0.0153	5.00	ng/kg	101		78-138		
OCDF	0.162 J	0.0245	10.0	ng/kg	105		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241639
Reported: 05/09/11 at 09:13 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11126162401A	Sample number(s): 6255769-6255776					BKG: P255761			
Moisture Content by 160.3						15.3	14.3	6	20
Batch number: 11118001	Sample number(s): 6255770-6255774,6255776 UNSPK: 6255771								
2378-TCDD	99	96	67-158	3	25				
12378-PeCDD	102	101	70-142	0	25				
123478-HxCDD	102	101	70-164	1	25				
123678-HxCDD	101	102	76-134	1	25				
123789-HxCDD	100	100	64-162	0	25				
1234678-HpCDD	99	100	70-140	1	25				
OCDD	101	101	78-144	0	25				
2378-TCDF	104	104	75-158	0	25				
12378-PeCDF	100	99	80-134	1	25				
23478-PeCDF	100	100	68-160	0	25				
123478-HxCDF	101	102	72-134	0	25				
123678-HxCDF	99	99	84-130	0	25				
123789-HxCDF	98	98	78-130	0	25				
234678-HxCDF	101	102	70-156	1	25				
1234678-HpCDF	100	101	82-122	1	25				
1234789-HpCDF	102	101	78-138	1	25				
OCDF	106	105	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11111001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6255769	62	68	32	49	70	48
6255775	68	79	27	37	84	60
Blank	70	71	40	60	75	51
OPR	63	63	27	45	66	47
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6255769	56	52	45	81	77	69
6255775	36	74	59	91	86	59
Blank	68	56	49	99	83	80
OPR	53	48	41	87	75	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241639
Reported: 05/09/11 at 09:13 AM

Surrogate Quality Control

6255769	75	76	74	67	60	76
6255775	69	84	77	71	72	83
Blank	83	84	79	72	66	83
OPR	75	77	75	67	57	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11118001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6255770	62	62	60	65	61	62
6255771	62	61	41	44	64	65
6255772	69	73	69	75	77	76
6255773	70	72	65	73	75	73
6255774	70	72	68	72	74	72
6255776	77	75	51	57	77	77
Blank	76	75	69	76	77	76
MS	69	73	69	75	77	76
MSD	70	72	65	73	75	73
OPR	62	64	60	67	68	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6255770	74	63	59	74	69	72
6255771	60	66	63	75	68	69
6255772	87	75	70	87	77	83
6255773	86	74	70	85	77	81
6255774	86	72	70	86	78	81
6255776	69	80	77	90	78	80
Blank	92	77	75	103	81	84
MS	87	75	70	87	77	83
MSD	86	74	70	85	77	81
OPR	84	66	64	80	69	74
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6255770	68	69	71	71	57	68
6255771	66	73	74	75	56	70
6255772	80	82	83	83	68	77
6255773	80	82	84	84	67	79
6255774	80	81	84	85	66	77
6255776	79	80	83	83	75	79
Blank	86	86	90	92	71	79
MS	80	82	83	83	68	77
MSD	80	82	84	84	67	79
OPR	72	76	81	83	58	69
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241639
Reported: 05/09/11 at 09:13 AM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1241639 6255769-76

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 16138	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahydrofuran EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP-13-SA5A-QC-041111	04.11.11	1551	SOIL	NONE	5-Encores										X	X	X										
DUP-13-SA5A-QC-041111	04.11.11	1551	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-186-SA5A-SB-4.0	04.11.11	1255	SOIL	NONE	5-Encores										X	X	X										
SL-186-SA5A-SB-3.5-4.5	04.11.11	1301	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
~~SL-187-SA5A-SB-4.5MS~~	04.11.11	1540	SOIL	NONE	15-Encores										X	X	X										MS/MSD
~~SL-187-SA5A-SB-4.5MS~~	04.11.11	1548	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-188-SA5A-SB-5.0	04.11.11	1142	SOIL	NONE	5-Encores										X	X	X										
SL-188-SA5A-SB-4.5-5.5	04.11.11	1154	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-189-SA5A-SB-5.5	04.11.11	1005	SOIL	NONE	5-Encores										X	X	X										CAUTION - SAMPLES HAD HIGH
SL-189-SA5A-SB-5.0-6.0	04.11.11	1012	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	PHOTOIONIZATION
SL-189-SA5A-SB-9.0	04.11.11	1018	SOIL	NONE	5-Encores										X	X	X										INSTRUMENT
SL-189-SA5A-SB-8.5-9.5	04.11.11	1023	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MEASUREMENTS
TB-041111	04.11.11	1700	WATER	HCl	4-40 mL VOA VIALS																						TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/11/2011 / 1700 — Received for Laboratory by: (Signature) — Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time — Airbill No.(s): 8695 1432 3596; 8596 1432 3600; 8695 1432 3611; 8596 1432 3780

4/12/11 for

→ Corrected to SL-187-SA5A-SB-4.0-5.0MS per PB NLM 11/5/11

Nicole Maljovec A# 13013 G# 1241639 S# 6255769-76

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Tuesday, April 12, 2011 5:54 PM
To: Nicole Maljovec
Subject: Correction to COC for 4/11/2011

Hi Nicole – please correct sample ID SL-187-SA5A-SB-4.5MS (at 1548) – it should read as SL-187-SA5A-SB-4.0-5.0MS.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/13/2011
Group Number: 1241927
SDG: DE125
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-012-SA8N-SS-0.0-0.5 Soil	6256859
SL-015-SA8N-SS-0.0-0.5 Soil	6256860
SL-016-SA8N-SS-0.0-0.5 Soil	6256861
SL-018-SA8N-SS-0.0-0.5 Soil	6256862
SL-019-SA8N-SS-0.0-0.5 Soil	6256863
SL-020-SA8N-SS-0.0-0.5 Soil	6256864
SL-021-SA8N-SS-0.0-0.5 Soil	6256865
SL-022-SA8N-SS-0.0-0.5 Soil	6256866
SL-023-SA8N-SS-0.0-0.5 Soil	6256867
SL-036-SA8N-SS-0.0-0.5 Soil	6256868
SL-047-SA8N-SS-0.0-0.5 Soil	6256869
SL-048-SA8N-SS-0.0-0.5 Soil	6256870
SL-050-SA8N-SS-0.0-0.5 Soil	6256871
SL-131-SA8N-SS-0.0-0.5 Soil	6256872
EB01-SA8N-041211 Water	6256873
SL-202-SA5A-SB-3.0-4.0 Soil	6256874
SL-206-SA5A-SB-4.0-5.0 Soil	6256875
SL-207-SA5A-SB-3.0-4.0 Soil	6256876
SL-227-SA5A-SB-3.0-4.0 Soil	6256877
SL-228-SA5A-SB-3.0-4.0 Soil	6256878
TB-041211 Water	6256879

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Marla S. Lord
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	189	U	189	378		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-012-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.84	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	3.9		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	2.5		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.3	J	6.8	20		1
10138	Phenanthrene	85-01-8	1.1	J	0.75	1.9		1
10138	Pyrene	129-00-0	2.3		0.75	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	11		0.37	1.9		1
10225	PCB-1260	11096-82-5	3.7		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	1.8		0.45	1.3		1
10199	EFH (C21-C30)	n.a.	10		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	33		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
	Target analytes were detected in the method blank associated with the sample as noted on the QC summary. The sample was re-extracted outside the method hold time. Similar results were obtained in both extracts. All results are reported from the original extract.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,000		5.59	22.2		1
07914	Boron	7440-42-8	16.1		0.989	5.56		1
01650	Calcium	7440-70-2	19,100		6.81	22.2		1
01654	Iron	7439-89-6	26,600		5.24	22.2		1
01656	Lithium	7439-93-2	22.1		0.24	2.2		1
01657	Magnesium	7439-95-4	6,690		2.82	11.1		1
06958	Manganese	7439-96-5	426		0.0867	0.556		1
10145	Phosphorus	7723-14-0	465		0.622	11.1		1
01662	Potassium	7440-09-7	5,480		20.0	55.6		1
01667	Sodium	7440-23-5	98.9	J	41.5	111		1
07968	Strontium	7440-24-6	42.9		0.0689	0.556		1
06969	Tin	7440-31-5	2.54	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,120		0.422	1.11		1
10146	Zirconium	7440-67-7	2.73	J	0.934	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.187	J	0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.23		0.0889	0.445		2
06126	Barium	7440-39-3	116		0.120	0.445		2
06127	Beryllium	7440-41-7	0.762		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.327		0.0445	0.111		2
06131	Chromium	7440-47-3	30.4		0.133	0.445		2
06132	Cobalt	7440-48-4	9.94		0.0222	0.111		2
06133	Copper	7440-50-8	14.7		0.0734	0.445		2
06135	Lead	7439-92-1	11.7		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.500		0.0556	0.111		2
06139	Nickel	7440-02-0	16.6		0.111	0.445		2
06141	Selenium	7782-49-2	0.229	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0554	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.324		0.0333	0.111		2
06148	Vanadium	7440-62-2	52.7		0.0245	0.111		2
06149	Zinc	7440-66-6	77.9		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0249	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	425		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-012-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	11.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 18:54	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/18/2011 21:26	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/19/2011 23:28	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 11:23	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 01:36	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 16:07	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 06:01	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 22:23	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011 18:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 11:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1

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Sample Description: **SL-012-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 10:20	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 08:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 08:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 08:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 06:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 18:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11115621202A	04/25/2011 18:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 16:09	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 08:39	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201A	04/21/2011 18:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201A	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-012-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256860
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12502 SDG#: DE125-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: SL-015-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256860
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12502 SDG#: DE125-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	2.4		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	1.1	J	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.7	J	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.90	J	0.78	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	2.5	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	11		0.39	2.0		1
10225	PCB-1260	11096-82-5	3.9		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256860
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12502 SDG#: DE125-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,100		5.71	22.7		1
07914	Boron	7440-42-8	17.2		1.01	5.68		1
01650	Calcium	7440-70-2	18,600		6.96	22.7		1
01654	Iron	7439-89-6	26,600		5.35	22.7		1
01656	Lithium	7439-93-2	20.9		0.25	2.3		1
01657	Magnesium	7439-95-4	6,690		2.88	11.4		1
06958	Manganese	7439-96-5	485		0.0886	0.568		1
10145	Phosphorus	7723-14-0	540		0.636	11.4		1
01662	Potassium	7440-09-7	5,390		20.4	56.8		1
01667	Sodium	7440-23-5	102	J	42.4	114		1
07968	Strontium	7440-24-6	37.6		0.0704	0.568		1
06969	Tin	7440-31-5	2.58	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,170		0.431	1.14		1
10146	Zirconium	7440-67-7	3.23	J	0.954	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.182	J	0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.88		0.0891	0.446		2
06126	Barium	7440-39-3	123		0.120	0.446		2
06127	Beryllium	7440-41-7	0.764		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.367		0.0446	0.111		2
06131	Chromium	7440-47-3	29.2		0.134	0.446		2
06132	Cobalt	7440-48-4	10.7		0.0223	0.111		2
06133	Copper	7440-50-8	15.7		0.0735	0.446		2
06135	Lead	7439-92-1	11.1		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.590		0.0557	0.111		2
06139	Nickel	7440-02-0	16.5		0.111	0.446		2
06141	Selenium	7782-49-2	0.227	J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0593	J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.330		0.0334	0.111		2
06148	Vanadium	7440-62-2	51.8		0.0245	0.111		2
06149	Zinc	7440-66-6	69.3		0.624	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0250	J	0.0033	0.116		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-015-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256860
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12502 SDG#: DE125-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	444		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.99		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/18/2011 22:40	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 01:04	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 17:03	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011 18:26	Dustin A Underkoffler	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-015-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256860
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12502 SDG#: DE125-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:14	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 19:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 17:17	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 08:51	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-015-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256860
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12502 SDG#: DE125-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-016-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256861
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12503 SDG#: DE125-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	880		19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

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Sample Description: SL-016-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256861
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12503 SDG#: DE125-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.83	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	3.9		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	3.2		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	5.2		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.8		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	15		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	6.3		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.9	J	6.9	21		1
10138	Phenanthrene	85-01-8	2.4		0.76	1.9		1
10138	Pyrene	129-00-0	6.9		0.76	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.7	U	5.7	19		5
10225	Aroclor 5442	12642-23-8	5.7	U	5.7	19		5
10225	Aroclor 5460	11126-42-4	5.7	U	5.7	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.7		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.7		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.7		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.7		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.7		5
10225	PCB-1254	11097-69-1	68		1.9	9.7		5

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Sample Description: SL-016-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256861
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12503 SDG#: DE125-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	20		2.2	9.7		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.7		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.7		5
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,100		5.53	22.0		1
07914	Boron	7440-42-8	13.4		0.978	5.49		1
01650	Calcium	7440-70-2	8,990		6.74	22.0		1
01654	Iron	7439-89-6	22,600		5.18	22.0		1
01656	Lithium	7439-93-2	18.0		0.24	2.2		1
01657	Magnesium	7439-95-4	5,120		2.79	11.0		1
06958	Manganese	7439-96-5	399		0.0857	0.549		1
10145	Phosphorus	7723-14-0	361		0.615	11.0		1
01662	Potassium	7440-09-7	4,350		19.8	54.9		1
01667	Sodium	7440-23-5	100	J	41.0	110		1
07968	Strontium	7440-24-6	26.6		0.0681	0.549		1
06969	Tin	7440-31-5	2.56	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,140		0.418	1.10		1
10146	Zirconium	7440-67-7	2.69	J	0.923	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0815	J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.11		0.0905	0.453		2
06126	Barium	7440-39-3	109		0.122	0.453		2
06127	Beryllium	7440-41-7	0.694		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.342		0.0453	0.113		2
06131	Chromium	7440-47-3	26.5		0.136	0.453		2
06132	Cobalt	7440-48-4	8.89		0.0226	0.113		2
06133	Copper	7440-50-8	13.4		0.0747	0.453		2
06135	Lead	7439-92-1	13.1		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.508		0.0566	0.113		2
06139	Nickel	7440-02-0	15.1		0.113	0.453		2
06141	Selenium	7782-49-2	0.191	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0593	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.295		0.0339	0.113		2
06148	Vanadium	7440-62-2	46.3		0.0249	0.113		2

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Sample Description: SL-016-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256861
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12503 SDG#: DE125-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	68.1		0.634	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.125		0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	453		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.82		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/18/2011 23:04	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 01:35	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1

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Sample Description: SL-016-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256861
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12503 SDG#: DE125-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 18:36	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 17:22	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011 18:44	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 19:52	Ashley M Adams	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-016-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256861
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12503 SDG#: DE125-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 18:02	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 09:05	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256862
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12504 SDG#: DE125-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: **SL-018-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256862
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12504 SDG#: DE125-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.80	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	4.5		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	2.2		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.96	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.6	J	7.0	21		1
10138	Phenanthrene	85-01-8	1.1	J	0.77	1.9		1
10138	Pyrene	129-00-0	2.0		0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	2.2	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	16		0.39	2.0		1
10225	PCB-1260	11096-82-5	4.3		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

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Sample Description: **SL-018-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256862
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12504 SDG#: DE125-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,900		5.81	23.1		1
07914	Boron	7440-42-8	17.0		1.03	5.78		1
01650	Calcium	7440-70-2	28,700		7.08	23.1		1
01654	Iron	7439-89-6	27,900		5.44	23.1		1
01656	Lithium	7439-93-2	23.4		0.25	2.3		1
01657	Magnesium	7439-95-4	6,860		2.93	11.6		1
06958	Manganese	7439-96-5	414		0.0901	0.578		1
10145	Phosphorus	7723-14-0	962		0.647	11.6		1
01662	Potassium	7440-09-7	5,210		20.8	57.8		1
01667	Sodium	7440-23-5	138		43.1	116		1
07968	Strontium	7440-24-6	64.9		0.0716	0.578		1
06969	Tin	7440-31-5	2.54	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,180		0.439	1.16		1
10146	Zirconium	7440-67-7	3.13	J	0.970	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0903	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.87		0.0906	0.453		2
06126	Barium	7440-39-3	129		0.122	0.453		2
06127	Beryllium	7440-41-7	0.736		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.328		0.0453	0.113		2
06131	Chromium	7440-47-3	29.3		0.136	0.453		2
06132	Cobalt	7440-48-4	10.1		0.0227	0.113		2
06133	Copper	7440-50-8	14.0		0.0748	0.453		2
06135	Lead	7439-92-1	12.9		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.458		0.0566	0.113		2
06139	Nickel	7440-02-0	16.2		0.113	0.453		2
06141	Selenium	7782-49-2	0.236	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0421	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.314		0.0340	0.113		2
06148	Vanadium	7440-62-2	51.0		0.0249	0.113		2
06149	Zinc	7440-66-6	68.6		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0408	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	J	0.23	1.2		1

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Sample Description: **SL-018-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256862
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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12504 SDG#: DE125-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	476	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.97	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/18/2011 23:29	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 02:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 17:40	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256862
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12504 SDG#: DE125-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:28	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 20:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 18:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 09:18	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256863
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12505 SDG#: DE125-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	199	U	199	398		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	39	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256863
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12505 SDG#: DE125-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	11		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	2.9		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	1.1	J	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	10	J	7.1	21		1
10138	Phenanthrene	85-01-8	1.6	J	0.79	2.0		1
10138	Pyrene	129-00-0	3.1		0.79	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	72	U	72	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	96	U	96	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	96	U	96	290	10000000	1

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SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256863
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12505 SDG#: DE125-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	960	U	960	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	96	U	96	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	96	U	96	140	10000000	1
10132	PETN	78-11-5	960	U	960	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.0	U	6.0	20		5
10225	Aroclor 5442	12642-23-8	6.0	U	6.0	20		5
10225	Aroclor 5460	11126-42-4	6.0	U	6.0	20		5
10225	PCB-1016	12674-11-2	2.0	U	2.0	10		5
10225	PCB-1221	11104-28-2	2.0	U	2.0	10		5
10225	PCB-1232	11141-16-5	2.0	U	2.0	10		5
10225	PCB-1242	53469-21-9	2.0	U	2.0	10		5
10225	PCB-1248	12672-29-6	2.0	U	2.0	10		5
10225	PCB-1254	11097-69-1	36		2.0	10		5
10225	PCB-1260	11096-82-5	11		2.3	10		5
10225	PCB-1262	37324-23-5	2.0	U	2.0	10		5
10225	PCB-1268	11100-14-4	2.0	U	2.0	10		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	1.6		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	12		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	32		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,600		5.78	23.0		1
07914	Boron	7440-42-8	15.9		1.02	5.74		1
01650	Calcium	7440-70-2	14,000		7.04	23.0		1
01654	Iron	7439-89-6	28,300		5.41	23.0		1
01656	Lithium	7439-93-2	21.0		0.25	2.3		1
01657	Magnesium	7439-95-4	6,220		2.92	11.5		1
06958	Manganese	7439-96-5	463		0.0896	0.574		1
10145	Phosphorus	7723-14-0	471		0.643	11.5		1
01662	Potassium	7440-09-7	5,140		20.7	57.4		1
01667	Sodium	7440-23-5	112	J	42.8	115		1
07968	Strontium	7440-24-6	36.9		0.0712	0.574		1
06969	Tin	7440-31-5	2.45	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,120		0.437	1.15		1
10146	Zirconium	7440-67-7	3.76	J	0.965	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

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12505 SDG#: DE125-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	6.50		0.0937	0.469		2
06126	Barium	7440-39-3	126		0.127	0.469		2
06127	Beryllium	7440-41-7	0.781		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.387		0.0469	0.117		2
06131	Chromium	7440-47-3	31.4		0.141	0.469		2
06132	Cobalt	7440-48-4	10.9		0.0234	0.117		2
06133	Copper	7440-50-8	13.8		0.0773	0.469		2
06135	Lead	7439-92-1	12.2		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.560		0.0586	0.117		2
06139	Nickel	7440-02-0	17.7		0.117	0.469		2
06141	Selenium	7782-49-2	0.196	J	0.0469	0.469		2
06142	Silver	7440-22-4	0.0541	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.287		0.0351	0.117		2
06148	Vanadium	7440-62-2	55.4		0.0258	0.117		2
06149	Zinc	7440-66-6	71.9		0.656	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0499	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.0		0.96	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	448		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.02		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-019-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256863
LLI Group # 1241927
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Project Name: SSFL Area IV Collocated Soil Sampling

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12505 SDG#: DE125-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 19:11	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/18/2011 23:53	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 02:39	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 13:31	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 01:45	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 17:59	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	3	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 06:26	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 22:38	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011 19:02	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 12:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256863
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12505 SDG#: DE125-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:31	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 13:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 20:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11115621202A	04/25/2011 20:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 18:47	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 09:54	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201B	04/21/2011 18:31	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201B	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-020-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256864
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12506 SDG#: DE125-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	368	J	193	386		10
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-020-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256864
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12506 SDG#: DE125-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	1.2	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	40		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	30		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	60		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	7.2		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	20		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	8.5	J	6.9	21		1
10138	Chrysene	218-01-9	45		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	2.3		0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	66		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.5		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	1.2	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.7	J	6.9	21		1
10138	Phenanthrene	85-01-8	4.8		0.76	1.9		1
10138	Pyrene	129-00-0	56		0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1

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Sample Description: SL-020-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256864
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12506 SDG#: DE125-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.6		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.6		2
10225	Aroclor 5460	11126-42-4	2.3	U	2.3	7.6		2
10225	PCB-1016	12674-11-2	0.76	U	0.76	3.9		2
10225	PCB-1221	11104-28-2	0.76	U	0.76	3.9		2
10225	PCB-1232	11141-16-5	0.76	U	0.76	3.9		2
10225	PCB-1242	53469-21-9	0.76	U	0.76	3.9		2
10225	PCB-1248	12672-29-6	0.76	U	0.76	3.9		2
10225	PCB-1254	11097-69-1	33		0.76	3.9		2
10225	PCB-1260	11096-82-5	7.9		0.90	3.9		2
10225	PCB-1262	37324-23-5	0.76	U	0.76	3.9		2
10225	PCB-1268	11100-14-4	0.76	U	0.76	3.9		2
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256864
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12506 SDG#: DE125-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.3	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	15		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	37		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,000		5.82	23.1		1
07914	Boron	7440-42-8	17.1		1.03	5.79		1
01650	Calcium	7440-70-2	20,800		7.09	23.1		1
01654	Iron	7439-89-6	27,700		5.45	23.1		1
01656	Lithium	7439-93-2	23.1		0.25	2.3		1
01657	Magnesium	7439-95-4	6,980		2.94	11.6		1
06958	Manganese	7439-96-5	428		0.0903	0.579		1
10145	Phosphorus	7723-14-0	467		0.648	11.6		1
01662	Potassium	7440-09-7	5,500		20.8	57.9		1
01667	Sodium	7440-23-5	104	J	43.2	116		1
07968	Strontium	7440-24-6	48.3		0.0718	0.579		1
06969	Tin	7440-31-5	2.71	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,170		0.440	1.16		1
10146	Zirconium	7440-67-7	3.19	J	0.972	5.79		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.220	J	0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256864
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12506 SDG#: DE125-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	6.43		0.0926	0.463		2
06126	Barium	7440-39-3	122		0.125	0.463		2
06127	Beryllium	7440-41-7	0.804		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.289		0.0463	0.116		2
06131	Chromium	7440-47-3	30.9		0.139	0.463		2
06132	Cobalt	7440-48-4	10.9		0.0231	0.116		2
06133	Copper	7440-50-8	15.4		0.0764	0.463		2
06135	Lead	7439-92-1	11.9		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.533		0.0579	0.116		2
06139	Nickel	7440-02-0	17.5		0.116	0.463		2
06141	Selenium	7782-49-2	0.242	J	0.0463	0.463		2
06142	Silver	7440-22-4	0.0536	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.340		0.0347	0.116		2
06148	Vanadium	7440-62-2	54.0		0.0255	0.116		2
06149	Zinc	7440-66-6	74.6		0.648	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0375	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.9		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	480		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-020-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256864
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12506 SDG#: DE125-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 19:27	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 00:17	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 03:11	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 14:13	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 01:55	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 18:17	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 06:51	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 22:53	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011 19:19	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 13:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-020-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256864
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12506 SDG#: DE125-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:35	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 13:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 21:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11115621202A	04/25/2011 21:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 19:09	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11113243201A	04/28/2011 10:13	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201B	04/21/2011 18:35	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201B	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.8	U	18.8	37.7		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-021-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.51	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	8.6		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	5.9		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	11		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	5.7		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	11		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	28		6.7	20		1
10138	Fluoranthene	206-44-0	14		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.2		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.81	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.5	J	6.7	20		1
10138	Phenanthrene	85-01-8	1.9		0.75	1.9		1
10138	Pyrene	129-00-0	11		0.75	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1

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Sample Description: SL-021-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	3.8	J	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.4	U	2.4	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	24		0.37	1.9		1
10225	PCB-1260	11096-82-5	6.1		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1

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Sample Description: SL-021-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.8		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	16		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	45		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,500		5.52	21.9		1
07914	Boron	7440-42-8	15.1		0.976	5.49		1
01650	Calcium	7440-70-2	18,300		6.72	21.9		1
01654	Iron	7439-89-6	25,000		5.17	21.9		1
01656	Lithium	7439-93-2	20.3		0.24	2.2		1
01657	Magnesium	7439-95-4	6,140		2.79	11.0		1
06958	Manganese	7439-96-5	374		0.0856	0.549		1
10145	Phosphorus	7723-14-0	706		0.614	11.0		1
01662	Potassium	7440-09-7	4,930		19.7	54.9		1
01667	Sodium	7440-23-5	121		40.9	110		1
07968	Strontium	7440-24-6	41.7		0.0680	0.549		1
06969	Tin	7440-31-5	2.43	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,140		0.417	1.10		1

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Sample Description: SL-021-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	2.42	J	0.922	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.84		0.0895	0.448		2
06126	Barium	7440-39-3	177		0.121	0.448		2
06127	Beryllium	7440-41-7	0.670		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.288		0.0448	0.112		2
06131	Chromium	7440-47-3	26.7		0.134	0.448		2
06132	Cobalt	7440-48-4	10.1		0.0224	0.112		2
06133	Copper	7440-50-8	13.5		0.0738	0.448		2
06135	Lead	7439-92-1	9.14		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.567		0.0559	0.112		2
06139	Nickel	7440-02-0	15.6		0.112	0.448		2
06141	Selenium	7782-49-2	0.271	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0370	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.305		0.0336	0.112		2
06148	Vanadium	7440-62-2	48.3		0.0246	0.112		2
06149	Zinc	7440-66-6	80.9		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0475	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.7		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	472		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Sample Description: **SL-021-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.85	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/28/2011 13:43	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 00:42	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 03:43	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 14:56	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 02:04	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 18:48	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 18:36	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 08:07	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 23:08	Tyler O Griffin	1

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SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

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Suite 210
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12507 SDG#: DE125-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011 19:37	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 16:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:39	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 08:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 08:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 08:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 21:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11115621202A	04/25/2011 21:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 19:32	Ashley M Adams	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 10:19	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201B	04/21/2011 18:36	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201B	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.5	U	19.5	39.0		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	1.5	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	26		0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	20		0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	34		0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	4.8		0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	14		0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	33		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	1.8	J	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	49		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.2		0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.96	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	12	J	7.0	21		1
10138	Phenanthrene	85-01-8	7.1		0.78	2.0		1
10138	Pyrene	129-00-0	51		0.78	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.7		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.7		2
10225	Aroclor 5460	11126-42-4	3.7	J	2.3	7.7		2
10225	PCB-1016	12674-11-2	0.77	U	0.77	4.0		2
10225	PCB-1221	11104-28-2	0.77	U	0.77	4.0		2
10225	PCB-1232	11141-16-5	0.77	U	0.77	4.0		2
10225	PCB-1242	53469-21-9	0.77	U	0.77	4.0		2
10225	PCB-1248	12672-29-6	0.77	U	0.77	4.0		2
10225	PCB-1254	11097-69-1	28		0.77	4.0		2
10225	PCB-1260	11096-82-5	11		0.91	4.0		2
10225	PCB-1262	37324-23-5	0.77	U	0.77	4.0		2
10225	PCB-1268	11100-14-4	0.77	U	0.77	4.0		2
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-022-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	1.3	J	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	19		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	50		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,500		5.83	23.2		1
07914	Boron	7440-42-8	15.1		1.03	5.80		1
01650	Calcium	7440-70-2	18,900		7.11	23.2		1
01654	Iron	7439-89-6	25,400		5.46	23.2		1
01656	Lithium	7439-93-2	22.6		0.26	2.3		1
01657	Magnesium	7439-95-4	6,240		2.94	11.6		1
06958	Manganese	7439-96-5	406		0.0904	0.580		1
10145	Phosphorus	7723-14-0	485		0.649	11.6		1
01662	Potassium	7440-09-7	4,790		20.9	58.0		1
01667	Sodium	7440-23-5	92.9	J	43.2	116		1
07968	Strontium	7440-24-6	37.5		0.0719	0.580		1
06969	Tin	7440-31-5	2.71	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,130		0.441	1.16		1
10146	Zirconium	7440-67-7	2.90	J	0.974	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.115	J	0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.45		0.0937	0.468		2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	127		0.126	0.468		2
06127	Beryllium	7440-41-7	0.778		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.428		0.0468	0.117		2
06131	Chromium	7440-47-3	32.1		0.141	0.468		2
06132	Cobalt	7440-48-4	12.2		0.0234	0.117		2
06133	Copper	7440-50-8	17.2		0.0773	0.468		2
06135	Lead	7439-92-1	12.1		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.466		0.0585	0.117		2
06139	Nickel	7440-02-0	17.9		0.117	0.468		2
06141	Selenium	7782-49-2	0.183	J	0.0468	0.468		2
06142	Silver	7440-22-4	0.0456	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.287		0.0351	0.117		2
06148	Vanadium	7440-62-2	56.1		0.0258	0.117		2
06149	Zinc	7440-66-6	82.2		0.656	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0452	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.5		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	257		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/28/2011 14:00	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 01:06	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 04:15	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 09:06	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 02:14	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 18:55	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111160004A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 08:32	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 23:22	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 19:17	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 16:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1

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Analysis Report

Sample Description: **SL-022-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:42	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 13:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 21:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11115621202A	04/25/2011 21:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 19:55	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 10:32	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201B	04/21/2011 18:37	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201B	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-023-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256867
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:10

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12509 SDG#: DE125-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: SL-023-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256867
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:10

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12509 SDG#: DE125-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	1.1	J	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	3.4		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	4.1		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	12		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	3.9		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	11		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	13		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	1.3	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	13	J	7.0	21		1
10138	Phenanthrene	85-01-8	5.6		0.77	1.9		1
10138	Pyrene	129-00-0	11		0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	1.8	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.61	J	0.39	2.0		1

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Analysis Report

Sample Description: SL-023-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256867
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:10

Submitted: 04/13/2011 10:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12509 SDG#: DE125-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,600		5.75	22.9		1
07914	Boron	7440-42-8	18.4		1.02	5.72		1
01650	Calcium	7440-70-2	8,600		7.01	22.9		1
01654	Iron	7439-89-6	30,000		5.39	22.9		1
01656	Lithium	7439-93-2	22.6		0.25	2.3		1
01657	Magnesium	7439-95-4	7,740		2.91	11.4		1
06958	Manganese	7439-96-5	491		0.0892	0.572		1
10145	Phosphorus	7723-14-0	658		0.641	11.4		1
01662	Potassium	7440-09-7	6,990		20.6	57.2		1
01667	Sodium	7440-23-5	88.1	J	42.7	114		1
07968	Strontium	7440-24-6	29.0		0.0709	0.572		1
06969	Tin	7440-31-5	2.59	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,280		0.435	1.14		1
10146	Zirconium	7440-67-7	3.19	J	0.961	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.37		0.0906	0.453		2
06126	Barium	7440-39-3	129		0.122	0.453		2
06127	Beryllium	7440-41-7	0.785		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.428		0.0453	0.113		2
06131	Chromium	7440-47-3	31.7		0.136	0.453		2
06132	Cobalt	7440-48-4	11.2		0.0227	0.113		2
06133	Copper	7440-50-8	17.0		0.0748	0.453		2
06135	Lead	7439-92-1	13.9		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.566		0.0566	0.113		2
06139	Nickel	7440-02-0	18.1		0.113	0.453		2
06141	Selenium	7782-49-2	0.257	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0501	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.360		0.0340	0.113		2
06148	Vanadium	7440-62-2	55.0		0.0249	0.113		2
06149	Zinc	7440-66-6	83.7		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0223	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-023-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256867
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:10

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12509 SDG#: DE125-09

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	265	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.85	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	14.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 01:30	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 04:47	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 20:27	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-023-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256867
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:10

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12509 SDG#: DE125-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:46	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 21:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 20:17	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 10:44	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Analysis Report

Sample Description: SL-036-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256868
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12510 SDG#: DE125-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	160	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256868
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12510 SDG#: DE125-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.43	J	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	3.6		0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.0	J	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	3.3		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	5.6		0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	1.8	J	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	2.9		0.81	2.0		1
10138	Pyrene	129-00-0	4.2		0.81	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	3.6	J	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	1.5	J	0.40	2.1		1
10225	PCB-1260	11096-82-5	1.1	J	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256868
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12510 SDG#: DE125-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	1.5		0.48	1.4		1
10199	EFH (C21-C30)	n.a.	11		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	28		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
	Target analytes were detected in the method blank associated with the sample as noted on the QC summary. The sample was re-extracted outside the method hold time. Similar results were obtained in both extracts. All results are reported from the original extract.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,800		6.06	24.1		1
07914	Boron	7440-42-8	18.3		1.07	6.02		1
01650	Calcium	7440-70-2	11,800		7.38	24.1		1
01654	Iron	7439-89-6	30,800		5.67	24.1		1
01656	Lithium	7439-93-2	24.5		0.26	2.4		1
01657	Magnesium	7439-95-4	8,220		3.06	12.0		1
06958	Manganese	7439-96-5	477		0.0940	0.602		1
10145	Phosphorus	7723-14-0	596		0.675	12.0		1
01662	Potassium	7440-09-7	7,430		21.7	60.2		1
01667	Sodium	7440-23-5	85.3	J	44.9	120		1
07968	Strontium	7440-24-6	33.3		0.0747	0.602		1
06969	Tin	7440-31-5	2.85	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,290		0.458	1.20		1
10146	Zirconium	7440-67-7	3.14	J	1.01	6.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.248		0.0709	0.236		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.63		0.0945	0.472		2
06126	Barium	7440-39-3	123		0.128	0.472		2
06127	Beryllium	7440-41-7	0.810		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.382		0.0472	0.118		2
06131	Chromium	7440-47-3	33.0		0.142	0.472		2
06132	Cobalt	7440-48-4	11.3		0.0236	0.118		2
06133	Copper	7440-50-8	16.7		0.0780	0.472		2
06135	Lead	7439-92-1	14.7		0.0123	0.236		2
06138	Molybdenum	7439-98-7	0.501		0.0591	0.118		2
06139	Nickel	7440-02-0	18.9		0.118	0.472		2
06141	Selenium	7782-49-2	0.227	J	0.0472	0.472		2
06142	Silver	7440-22-4	0.0529	J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.345		0.0354	0.118		2
06148	Vanadium	7440-62-2	59.2		0.0260	0.118		2
06149	Zinc	7440-66-6	83.4		0.661	3.54		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-036-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256868
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12510 SDG#: DE125-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0163 J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.97	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9 U	10.9	36.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 U	0.24	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	278	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.60	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 01:58	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 10:42	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 20:46	Lindsey K Lafferty	1

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Sample Description: **SL-036-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256868
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12510 SDG#: DE125-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 05:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:49	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 22:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 20:40	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 10:57	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-036-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256868
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12510 SDG#: DE125-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-047-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	619		197	393		10
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	36	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-047-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.65	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	6.1		0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	2.2		0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	9.7		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	21		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.81	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	6.6		0.78	2.0		1
10138	Pyrene	129-00-0	15		0.78	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1

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Sample Description: SL-047-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	13		0.39	2.0		1
10225	PCB-1260	11096-82-5	3.2		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-047-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	3.3		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	15		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	47		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,300		5.82	23.1		1
07914	Boron	7440-42-8	17.2		1.03	5.78		1
01650	Calcium	7440-70-2	38,100		7.09	23.1		1
01654	Iron	7439-89-6	28,200		5.45	23.1		1
01656	Lithium	7439-93-2	24.7		0.25	2.3		1
01657	Magnesium	7439-95-4	7,490		2.94	11.6		1
06958	Manganese	7439-96-5	416		0.0902	0.578		1
10145	Phosphorus	7723-14-0	548		0.647	11.6		1
01662	Potassium	7440-09-7	5,580		20.8	57.8		1
01667	Sodium	7440-23-5	121		43.1	116		1
07968	Strontium	7440-24-6	71.3		0.0717	0.578		1
06969	Tin	7440-31-5	2.62	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,200		0.439	1.16		1
10146	Zirconium	7440-67-7	2.33	J	0.971	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0701	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.56		0.0934	0.467		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-047-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	125		0.126	0.467		2
06127	Beryllium	7440-41-7	0.712		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.305		0.0467	0.117		2
06131	Chromium	7440-47-3	30.5		0.140	0.467		2
06132	Cobalt	7440-48-4	10.3		0.0234	0.117		2
06133	Copper	7440-50-8	14.1		0.0771	0.467		2
06135	Lead	7439-92-1	9.97		0.0121	0.234		2
06138	Molybdenum	7439-98-7	0.447		0.0584	0.117		2
06139	Nickel	7440-02-0	16.6		0.117	0.467		2
06141	Selenium	7782-49-2	0.216	J	0.0467	0.467		2
06142	Silver	7440-22-4	0.0228	J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.301		0.0350	0.117		2
06148	Vanadium	7440-62-2	55.6		0.0257	0.117		2
06149	Zinc	7440-66-6	76.6		0.654	3.50		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0430	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	294		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.17		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-047-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 20:18	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 02:23	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 11:15	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 15:38	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 02:24	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 21:04	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 07:42	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 23:37	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 19:35	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 15:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-047-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:53	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/25/2011 22:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11115621202B	04/25/2011 22:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/27/2011 21:02	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 11:09	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201B	04/21/2011 18:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201B	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-048-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256870
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12512 SDG#: DE125-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U	210	630		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200		1
04688	Benzoic acid	65-85-0	210	U	210	630		1
04688	Benzyl alcohol	100-51-6	210	U	210	630		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210		1
04688	4-Chloroaniline	106-47-8	84	U	84	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	420		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210		1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	630		1
04688	2,4-Dinitrophenol	51-28-5	420	U	420	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,000		21	420		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	84	U	84	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	630		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	42	U	42	210		1
04688	4-Methylphenol	106-44-5	42	U	42	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	42	U	42	210		1
04688	4-Nitroaniline	100-01-6	84	U	84	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	630		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	630		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-048-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256870
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12512 SDG#: DE125-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	21	U	21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210		1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.84	U	0.84	2.1		1
10138	Acenaphthylene	208-96-8	0.42	U	0.42	2.1		1
10138	Anthracene	120-12-7	0.42	U	0.42	2.1		1
10138	Benzo(a)anthracene	56-55-3	0.84	U	0.84	2.1		1
10138	Benzo(a)pyrene	50-32-8	0.84	U	0.84	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.84	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	0.84	U	0.84	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	0.84	U	0.84	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.6	U	7.6	23		1
10138	Di-n-butylphthalate	84-74-2	7.6	U	7.6	23		1
10138	Chrysene	218-01-9	2.0	J	0.42	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.84	U	0.84	2.1		1
10138	Diethylphthalate	84-66-2	7.6	U	7.6	23		1
10138	Dimethylphthalate	131-11-3	7.6	U	7.6	23		1
10138	Fluoranthene	206-44-0	1.6	J	0.84	2.1		1
10138	Fluorene	86-73-7	0.84	U	0.84	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	U	0.84	2.1		1
10138	1-Methylnaphthalene	90-12-0	0.84	U	0.84	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.84	U	0.84	2.1		1
10138	Naphthalene	91-20-3	1.2	J	0.84	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.84	U	0.84	2.1		1
10138	Di-n-octylphthalate	117-84-0	7.6	U	7.6	23		1
10138	Phenanthrene	85-01-8	1.2	J	0.84	2.1		1
10138	Pyrene	129-00-0	1.5	J	0.84	2.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.2		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.2		1
10225	Aroclor 5460	11126-42-4	1.3	U	1.3	4.2		1
10225	PCB-1016	12674-11-2	0.42	U	0.42	2.2		1
10225	PCB-1221	11104-28-2	0.42	U	0.42	2.2		1
10225	PCB-1232	11141-16-5	0.42	U	0.42	2.2		1
10225	PCB-1242	53469-21-9	0.42	U	0.42	2.2		1
10225	PCB-1248	12672-29-6	0.42	U	0.42	2.2		1
10225	PCB-1254	11097-69-1	1.1	J	0.42	2.2		1
10225	PCB-1260	11096-82-5	0.50	U	0.50	2.2		1
10225	PCB-1262	37324-23-5	0.42	U	0.42	2.2		1
10225	PCB-1268	11100-14-4	0.42	U	0.42	2.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256870
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12512 SDG#: DE125-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.4	U	6.4	16		1
08283	Ethylene glycol	107-21-1	6.4	U	6.4	16		1
08283	Propylene glycol	57-55-6	6.4	U	6.4	16		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,100		6.39	25.4		1
07914	Boron	7440-42-8	14.4		1.13	6.35		1
01650	Calcium	7440-70-2	13,500		7.79	25.4		1
01654	Iron	7439-89-6	26,600		5.98	25.4		1
01656	Lithium	7439-93-2	21.8		0.28	2.5		1
01657	Magnesium	7439-95-4	6,510		3.23	12.7		1
06958	Manganese	7439-96-5	445		0.0991	0.635		1
10145	Phosphorus	7723-14-0	432		0.712	12.7		1
01662	Potassium	7440-09-7	4,990		22.9	63.5		1
01667	Sodium	7440-23-5	149		47.4	127		1
07968	Strontium	7440-24-6	36.6		0.0788	0.635		1
06969	Tin	7440-31-5	2.75	J	1.27	12.7		1
06970	Titanium	7440-32-6	1,300		0.483	1.27		1
10146	Zirconium	7440-67-7	3.40	J	1.07	6.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.184	J	0.0755	0.252		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.27		0.101	0.503		2
06126	Barium	7440-39-3	114		0.136	0.503		2
06127	Beryllium	7440-41-7	0.775		0.0201	0.126		2
06128	Cadmium	7440-43-9	0.274		0.0503	0.126		2
06131	Chromium	7440-47-3	28.3		0.151	0.503		2
06132	Cobalt	7440-48-4	10.6		0.0252	0.126		2
06133	Copper	7440-50-8	14.6		0.0830	0.503		2
06135	Lead	7439-92-1	11.0		0.0131	0.252		2
06138	Molybdenum	7439-98-7	0.596		0.0629	0.126		2
06139	Nickel	7440-02-0	15.2		0.126	0.503		2
06141	Selenium	7782-49-2	0.238	J	0.0503	0.503		2
06142	Silver	7440-22-4	0.0411	J	0.0151	0.126		2
06145	Thallium	7440-28-0	0.314		0.0377	0.126		2
06148	Vanadium	7440-62-2	50.0		0.0277	0.126		2
06149	Zinc	7440-66-6	66.8		0.705	3.77		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0143	J	0.0036	0.124		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		1.0	1.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-048-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256870
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12512 SDG#: DE125-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.4	U	11.4	38.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.25	1.3		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	297		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.03		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	21.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 02:47	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 11:47	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 21:23	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 15:32	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-048-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256870
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12512 SDG#: DE125-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:57	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 13:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/25/2011 22:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/27/2011 22:32	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11113243201A	04/28/2011 11:28	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256871
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12513 SDG#: DE125-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	20	410		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256871
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12513 SDG#: DE125-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.82	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.82	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.82	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.88	J	0.82	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.91	J	0.82	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22		1
10138	Di-n-butylphthalate	84-74-2	7.4	U	7.4	22		1
10138	Chrysene	218-01-9	3.9		0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	U	0.82	2.0		1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22		1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22		1
10138	Fluoranthene	206-44-0	3.7		0.82	2.0		1
10138	Fluorene	86-73-7	0.82	U	0.82	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.90	J	0.82	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.82	U	0.82	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.82	U	0.82	2.0		1
10138	Naphthalene	91-20-3	2.2		0.82	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.4	U	7.4	22		1
10138	Phenanthrene	85-01-8	2.1		0.82	2.0		1
10138	Pyrene	129-00-0	3.1		0.82	2.0		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.6	U	2.6	6.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	2.7	J	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	3.2		0.40	2.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-050-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256871
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12513 SDG#: DE125-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	1.7	J	0.48	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,900		6.10	24.3		1
07914	Boron	7440-42-8	18.3		1.08	6.07		1
01650	Calcium	7440-70-2	22,100		7.44	24.3		1
01654	Iron	7439-89-6	28,200		5.71	24.3		1
01656	Lithium	7439-93-2	22.8		0.27	2.4		1
01657	Magnesium	7439-95-4	7,570		3.08	12.1		1
06958	Manganese	7439-96-5	440		0.0946	0.607		1
10145	Phosphorus	7723-14-0	584		0.679	12.1		1
01662	Potassium	7440-09-7	6,250		21.8	60.7		1
01667	Sodium	7440-23-5	109	J	45.3	121		1
07968	Strontium	7440-24-6	48.4		0.0752	0.607		1
06969	Tin	7440-31-5	2.69	J	1.21	12.1		1
06970	Titanium	7440-32-6	1,220		0.461	1.21		1
10146	Zirconium	7440-67-7	2.73	J	1.02	6.07		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.200	J	0.0707	0.236		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.39		0.0943	0.471		2
06126	Barium	7440-39-3	111		0.127	0.471		2
06127	Beryllium	7440-41-7	0.746		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.345		0.0471	0.118		2
06131	Chromium	7440-47-3	32.2		0.141	0.471		2
06132	Cobalt	7440-48-4	10.4		0.0236	0.118		2
06133	Copper	7440-50-8	15.7		0.0778	0.471		2
06135	Lead	7439-92-1	11.8		0.0123	0.236		2
06138	Molybdenum	7439-98-7	0.525		0.0589	0.118		2
06139	Nickel	7440-02-0	17.7		0.118	0.471		2
06141	Selenium	7782-49-2	0.244	J	0.0471	0.471		2
06142	Silver	7440-22-4	0.0288	J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.303		0.0354	0.118		2
06148	Vanadium	7440-62-2	56.3		0.0259	0.118		2
06149	Zinc	7440-66-6	74.3		0.660	3.54		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-050-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256871
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12513 SDG#: DE125-13

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0174 J	0.0033	0.115		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.6	0.98	1.2		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	11.0 U	11.0	36.8		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.25 U	0.25	1.2		1
		ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	309	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.18	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	18.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 03:11	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 12:19	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 18:54	Richard A Shober	1

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Sample Description: **SL-050-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256871
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12513 SDG#: DE125-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 21:41	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 15:49	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:07	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 14:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/25/2011 23:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/27/2011 22:55	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 11:34	Venia B McFadden	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-050-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256871
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12513 SDG#: DE125-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-131-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256872
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12514 SDG#: DE125-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	960	U	960	2,900		1
04688	Benzidine	92-87-5	6,700	U	6,700	19,000		1
04688	Benzoic acid	65-85-0	960	U	960	2,900		1
04688	Benzyl alcohol	100-51-6	960	U	960	2,900		1
04688	4-Bromophenyl-phenylether	101-55-3	96	U	96	960		1
04688	Carbazole	86-74-8	96	U	96	960		1
04688	4-Chloro-3-methylphenol	59-50-7	190	U	190	960		1
04688	4-Chloroaniline	106-47-8	380	U	380	960		1
04688	bis(2-Chloroethoxy)methane	111-91-1	96	U	96	960		1
04688	bis(2-Chloroethyl)ether	111-44-4	96	U	96	960		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	96	U	96	960		1
04688	2-Chloronaphthalene	91-58-7	96	U	96	960		1
04688	2-Chlorophenol	95-57-8	96	U	96	960		1
04688	4-Chlorophenyl-phenylether	7005-72-3	190	U	190	960		1
04688	Dibenzofuran	132-64-9	96	U	96	960		1
04688	1,2-Dichlorobenzene	95-50-1	96	U	96	960		1
04688	1,3-Dichlorobenzene	541-73-1	96	U	96	960		1
04688	1,4-Dichlorobenzene	106-46-7	96	U	96	960		1
04688	3,3'-Dichlorobenzidine	91-94-1	570	U	570	1,900		1
04688	2,4-Dichlorophenol	120-83-2	96	U	96	960		1
04688	2,4-Dimethylphenol	105-67-9	190	U	190	960		1
04688	3,5-Dimethylphenol	108-68-9	190	U	190	960		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	960	U	960	2,900		1
04688	2,4-Dinitrophenol	51-28-5	1,900	U	1,900	5,700		1
04688	2,4-Dinitrotoluene	121-14-2	190	U	190	960		1
04688	2,6-Dinitrotoluene	606-20-2	96	U	96	960		1
04688	1,2-Diphenylhydrazine	122-66-7	96	U	96	960		1
04688	Hexachlorobenzene	118-74-1	96	U	96	960		1
04688	Hexachlorobutadiene	87-68-3	380	U	380	960		1
04688	Hexachlorocyclopentadiene	77-47-4	960	U	960	2,900		1
04688	Hexachloroethane	67-72-1	96	U	96	960		1
04688	Isophorone	78-59-1	96	U	96	960		1
04688	2-Methylphenol	95-48-7	190	U	190	960		1
04688	4-Methylphenol	106-44-5	190	U	190	960		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	96	U	96	960		1
04688	3-Nitroaniline	99-09-2	190	U	190	960		1
04688	4-Nitroaniline	100-01-6	380	U	380	960		1
04688	Nitrobenzene	98-95-3	96	U	96	960		1
04688	2-Nitrophenol	88-75-5	96	U	96	960		1
04688	4-Nitrophenol	100-02-7	960	U	960	2,900		1
04688	N-Nitroso-di-n-propylamine	621-64-7	96	U	96	960		1
04688	N-Nitrosodiphenylamine	86-30-6	96	U	96	960		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	960	U	960	2,900		1
04688	Phenol	108-95-2	96	U	96	960		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-131-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256872
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12514 SDG#: DE125-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	96	U	96	960		1
04688	2,4,5-Trichlorophenol	95-95-4	190	U	190	960		1
04688	2,4,6-Trichlorophenol	88-06-2	190	U	190	960		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.6		0.76	1.9		1
10138	Acenaphthylene	208-96-8	1.0	J	0.38	1.9		1
10138	Anthracene	120-12-7	15		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	88		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	69		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	140		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	19		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	58		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	18	J	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	120		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	7.2		0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	34		6.9	21		1
10138	Fluoranthene	206-44-0	200		0.76	1.9		1
10138	Fluorene	86-73-7	6.3		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	20		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	1.1	J	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.8	J	0.76	1.9		1
10138	Naphthalene	91-20-3	3.6		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	110		0.76	1.9		1
10138	Pyrene	129-00-0	170		0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.6		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.6		2
10225	Aroclor 5460	11126-42-4	14		2.3	7.6		2
10225	PCB-1016	12674-11-2	0.76	U	0.76	3.9		2
10225	PCB-1221	11104-28-2	0.76	U	0.76	3.9		2
10225	PCB-1232	11141-16-5	0.76	U	0.76	3.9		2
10225	PCB-1242	53469-21-9	0.76	U	0.76	3.9		2
10225	PCB-1248	12672-29-6	0.76	U	0.76	3.9		2
10225	PCB-1254	11097-69-1	31		0.76	3.9		2
10225	PCB-1260	11096-82-5	0.90	U	0.90	3.9		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-131-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256872
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12514 SDG#: DE125-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.76	U	0.76	3.9		2
10225	PCB-1268	11100-14-4	9.4		0.76	3.9		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		5.69	22.6		1
07914	Boron	7440-42-8	16.7		1.01	5.65		1
01650	Calcium	7440-70-2	7,320		6.93	22.6		1
01654	Iron	7439-89-6	28,600		5.33	22.6		1
01656	Lithium	7439-93-2	24.0		0.25	2.3		1
01657	Magnesium	7439-95-4	7,110		2.87	11.3		1
06958	Manganese	7439-96-5	452		0.0882	0.565		1
10145	Phosphorus	7723-14-0	501		0.633	11.3		1
01662	Potassium	7440-09-7	5,830		20.4	56.5		1
01667	Sodium	7440-23-5	93.2	J	42.2	113		1
07968	Strontium	7440-24-6	31.7		0.0701	0.565		1
06969	Tin	7440-31-5	2.84	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,320		0.430	1.13		1
10146	Zirconium	7440-67-7	2.98	J	0.950	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.155	J	0.0678	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.95		0.0905	0.452		2
06126	Barium	7440-39-3	135		0.122	0.452		2
06127	Beryllium	7440-41-7	0.760		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.421		0.0452	0.113		2
06131	Chromium	7440-47-3	29.6		0.136	0.452		2
06132	Cobalt	7440-48-4	11.0		0.0226	0.113		2
06133	Copper	7440-50-8	16.1		0.0746	0.452		2
06135	Lead	7439-92-1	17.7		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.889		0.0565	0.113		2
06139	Nickel	7440-02-0	17.4		0.113	0.452		2
06141	Selenium	7782-49-2	0.221	J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0658	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.334		0.0339	0.113		2
06148	Vanadium	7440-62-2	52.8		0.0249	0.113		2
06149	Zinc	7440-66-6	90.8		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0326	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-131-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256872
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12514 SDG#: DE125-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	339		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 03:36	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 12:51	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/21/2011 13:40	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-131-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256872
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12514 SDG#: DE125-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:10	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/25/2011 23:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/27/2011 23:18	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 11:47	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB01-SA8N-041211 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA8N-041211

LLI Sample # WW 6256873
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 16:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12515 SDG#: DE125-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB01-SA8N-041211 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA8N-041211

LLI Sample # WW 6256873
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 16:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12515 SDG#: DE125-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053		1
10137	Butylbenzylphthalate	85-68-7	0.053	U	0.053	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.51	J	0.053	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053		1
10137	Diethylphthalate	84-66-2	0.13	J	0.053	1.1		1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	4.9		0.053	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.053		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.053		1
10137	Naphthalene	91-20-3	0.032	U	0.032	0.053		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053		1
10137	Di-n-octylphthalate	117-84-0	4.7		0.053	1.1		1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.053		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-octylphthalate

Reporting limits were raised due to limited sample volume.

Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.095	U	0.095	0.48		1
10227	Aroclor 5442	12642-23-8	0.095	U	0.095	0.48		1
10227	Aroclor 5460	11126-42-4	0.095	U	0.095	0.48		1
10227	PCB-1016	12674-11-2	0.095	U	0.095	0.48		1
10227	PCB-1221	11104-28-2	0.095	U	0.095	0.48		1
10227	PCB-1232	11141-16-5	0.19	U	0.19	0.48		1
10227	PCB-1242	53469-21-9	0.095	U	0.095	0.48		1
10227	PCB-1248	12672-29-6	0.095	U	0.095	0.48		1
10227	PCB-1254	11097-69-1	0.095	U	0.095	0.48		1
10227	PCB-1260	11096-82-5	0.14	U	0.14	0.48		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB01-SA8N-041211 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA8N-041211

LLI Sample # WW 6256873
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 16:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12515 SDG#: DE125-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1262	37324-23-5	0.19	U	0.19	0.48		1
10227	PCB-1268	11100-14-4	0.15	U	0.15	0.48		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046	U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB01-SA8N-041211 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA8N-041211

LLI Sample # WW 6256873
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 16:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12515 SDG#: DE125-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.7		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11108WAC026	04/20/2011 14:27	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11106WAD026	04/18/2011 21:26	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11108WAC026	04/18/2011 22:00	Elaine F Stoltzfus	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11106WAD026	04/17/2011 11:40	Karen L Beyer	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111040007A	04/19/2011 00:50	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	111040007A	04/14/2011 13:45	Olivia I Santiago	1
01743	Aluminum	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
07070	Titanium	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	111081848006	04/26/2011 12:00	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111086050002D	04/19/2011 12:23	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB01-SA8N-041211 Water
SSFL Area IV Collocated Soil Sampling
EB01-SA8N-041211

LLI Sample # WW 6256873
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 16:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12515 SDG#: DE125-15EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06033	Copper	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111086050002C	04/19/2011 12:23	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111086050002B	04/19/2011 12:23	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111095713004	04/19/2011 20:06	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111081848006	04/18/2011 09:45	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111086050002	04/18/2011 13:07	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111095713004	04/19/2011 15:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11108196601C	04/18/2011 16:50	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11115196701A	04/26/2011 04:05	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11103196401B	04/13/2011 11:59	Ashley M Adams	1
00200	18b pH by 9040B	SW-846 9040B	1	11104020003A	04/14/2011 22:20	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-202-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256874
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12516 SDG#: DE125-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.88
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.88
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.88
06192	n-Butylbenzene	104-51-8	2.2	J	0.12	4.1		0.88
06192	sec-Butylbenzene	135-98-8	2.1	J	0.06	4.1		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.88
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.88
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.88
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.88
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.88
06192	Ethylbenzene	100-41-4	0.10	J	0.06	4.1		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.88
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.88
06192	Methylene Chloride	75-09-2	2.9	J	0.25	4.1		0.88
06192	n-Propylbenzene	103-65-1	0.24	J	0.07	4.1		0.88

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Sample Description: SL-202-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256874
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12516 SDG#: DE125-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.88
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		23.36
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256874
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12516 SDG#: DE125-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.0		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	2.0		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1

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Sample Description: SL-202-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256874
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12516 SDG#: DE125-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.82	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,200		5.69	22.6		1
07914	Boron	7440-42-8	10.4		1.01	5.65		1
01650	Calcium	7440-70-2	2,260		6.93	22.6		1
01654	Iron	7439-89-6	27,000		5.32	22.6		1
01656	Lithium	7439-93-2	33.7		0.25	2.3		1
01657	Magnesium	7439-95-4	5,910		2.87	11.3		1
06958	Manganese	7439-96-5	370		0.0882	0.565		1
10145	Phosphorus	7723-14-0	317		0.633	11.3		1
01662	Potassium	7440-09-7	2,390		20.3	56.5		1
01667	Sodium	7440-23-5	121		42.2	113		1
07968	Strontium	7440-24-6	22.4		0.0701	0.565		1
06969	Tin	7440-31-5	2.84	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,290		0.429	1.13		1
10146	Zirconium	7440-67-7	0.949	U	0.949	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0882	J	0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.06		0.0922	0.461		2
06126	Barium	7440-39-3	133		0.124	0.461		2
06127	Beryllium	7440-41-7	0.978		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.0912	J	0.0461	0.115		2
06131	Chromium	7440-47-3	25.7		0.138	0.461		2

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SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256874
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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12516 SDG#: DE125-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	9.18		0.0231	0.115		2
06133	Copper	7440-50-8	11.5		0.0761	0.461		2
06135	Lead	7439-92-1	8.45		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.853		0.0576	0.115		2
06139	Nickel	7440-02-0	17.1		0.115	0.461		2
06141	Selenium	7782-49-2	0.160	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0517	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.286		0.0346	0.115		2
06148	Vanadium	7440-62-2	48.1		0.0254	0.115		2
06149	Zinc	7440-66-6	68.5		0.645	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0061	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.93	U	0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.75	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	433		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.03		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-202-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-202-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256874
LLI Group # 1241927
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Chantilly VA 20151

12516 SDG#: DE125-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 20:23	Sara E Johnson	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 13:23	Jason M Long	23.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110324092	04/13/2011 18:48	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110324092	04/13/2011 18:45	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 04:00	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 13:23	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 22:18	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:14	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:21	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-202-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256874
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12516 SDG#: DE125-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/26/2011 00:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/27/2011 23:40	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11113243201A	04/28/2011 13:08	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-206-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12517 SDG#: DE125-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.2		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.9
06192	Methylene Chloride	75-09-2	0.56	J	0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.9

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Sample Description: **SL-206-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12517 SDG#: DE125-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.44
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-206-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12517 SDG#: DE125-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-206-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12517 SDG#: DE125-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,100		5.59	22.2		1
07914	Boron	7440-42-8	11.5		0.990	5.56		1
01650	Calcium	7440-70-2	2,730		6.82	22.2		1
01654	Iron	7439-89-6	28,100		5.24	22.2		1
01656	Lithium	7439-93-2	31.2		0.24	2.2		1
01657	Magnesium	7439-95-4	5,310		2.82	11.1		1
06958	Manganese	7439-96-5	354		0.0867	0.556		1
10145	Phosphorus	7723-14-0	304		0.623	11.1		1
01662	Potassium	7440-09-7	2,060		20.0	55.6		1
01667	Sodium	7440-23-5	115		41.5	111		1
07968	Strontium	7440-24-6	23.5		0.0690	0.556		1
06969	Tin	7440-31-5	2.87	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,090		0.423	1.11		1
10146	Zirconium	7440-67-7	0.934	U	0.934	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103	J	0.0687	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.02		0.0916	0.458		2

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-206-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12517 SDG#: DE125-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	102	0.124	0.458		2
06127	Beryllium	7440-41-7	0.794	0.0183	0.115		2
06128	Cadmium	7440-43-9	0.0474 J	0.0458	0.115		2
06131	Chromium	7440-47-3	24.1	0.137	0.458		2
06132	Cobalt	7440-48-4	5.51	0.0229	0.115		2
06133	Copper	7440-50-8	9.63	0.0756	0.458		2
06135	Lead	7439-92-1	6.40	0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.496	0.0573	0.115		2
06139	Nickel	7440-02-0	13.4	0.115	0.458		2
06141	Selenium	7782-49-2	0.0852 J	0.0458	0.458		2
06142	Silver	7440-22-4	0.0606 J	0.0137	0.115		2
06145	Thallium	7440-28-0	0.212	0.0344	0.115		2
06148	Vanadium	7440-62-2	42.5	0.0252	0.115		2
06149	Zinc	7440-66-6	52.9	0.641	3.44		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0091 J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.92	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	434	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.82	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-206-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12517 SDG#: DE125-17

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-206-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 20:46	Sara E Johnson	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 13:43	Jason M Long	22.44
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110324092	04/13/2011 18:52	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110324092	04/13/2011 18:50	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 04:24	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 13:55	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 19:01	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 22:37	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:17	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-206-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12517 SDG#: DE125-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 13:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/26/2011 00:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/28/2011 00:03	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 13:14	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-207-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12518 SDG#: DE125-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.8		1
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		1
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		1
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		1
06192	Isopropylbenzene	98-82-8	0.21	J	0.07	4.4		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		1
06192	Methylene Chloride	75-09-2	0.60	J	0.26	4.4		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-207-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12518 SDG#: DE125-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		1
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		25.56
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-207-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12518 SDG#: DE125-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1

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Sample Description: SL-207-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12518 SDG#: DE125-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,000		5.36	21.3		1
07914	Boron	7440-42-8	9.33		0.948	5.33		1
01650	Calcium	7440-70-2	2,390		6.53	21.3		1
01654	Iron	7439-89-6	20,600		5.02	21.3		1
01656	Lithium	7439-93-2	24.6		0.23	2.1		1
01657	Magnesium	7439-95-4	4,650		2.71	10.7		1
06958	Manganese	7439-96-5	215		0.0831	0.533		1
10145	Phosphorus	7723-14-0	351		0.597	10.7		1
01662	Potassium	7440-09-7	2,240		19.2	53.3		1
01667	Sodium	7440-23-5	110		39.8	107		1
07968	Strontium	7440-24-6	16.3		0.0661	0.533		1
06969	Tin	7440-31-5	2.82	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,100		0.405	1.07		1
10146	Zirconium	7440-67-7	0.895	U	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.07		0.0878	0.439		2
06126	Barium	7440-39-3	112		0.119	0.439		2
06127	Beryllium	7440-41-7	0.936		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0820	J	0.0439	0.110		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-207-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12518 SDG#: DE125-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	25.3		0.132	0.439		2
06132	Cobalt	7440-48-4	8.72		0.0220	0.110		2
06133	Copper	7440-50-8	10.6		0.0724	0.439		2
06135	Lead	7439-92-1	11.0		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.605		0.0549	0.110		2
06139	Nickel	7440-02-0	14.0		0.110	0.439		2
06141	Selenium	7782-49-2	0.181	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0540	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.283		0.0329	0.110		2
06148	Vanadium	7440-62-2	46.8		0.0241	0.110		2
06149	Zinc	7440-66-6	57.8		0.615	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0059	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	300		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.00		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-207-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-207-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
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Collected: 04/12/2011 12:03

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12518 SDG#: DE125-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 21:08	Sara E Johnson	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 14:03	Jason M Long	25.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110324092	04/13/2011 18:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110324092	04/13/2011 18:54	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 04:49	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 14:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 22:56	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:21	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2

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Analysis Report

Sample Description: **SL-207-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
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14420 Albemarle Point Place
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12518 SDG#: DE125-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/26/2011 00:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/28/2011 00:25	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11113243201A	04/28/2011 13:33	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101B	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401B	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-227-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	8.9		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.5		0.97
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.97
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.97
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.97
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		0.97
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.97
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.97
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.5		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		0.97
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.97
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.97
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.97
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		0.97
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.97
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.97
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.97
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		0.97
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.97
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.5		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.97
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.97
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.97
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.97
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.97
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.5		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	8.9		0.97
06192	Methylene Chloride	75-09-2	1.3	J	0.27	4.5		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.97

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Sample Description: SL-227-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		0.97
06192	Toluene	108-88-3	0.09	U	0.09	4.5		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.97
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.97
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		0.97
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.97
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.04
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-227-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1

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Sample Description: SL-227-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		5.55	22.1		1
07914	Boron	7440-42-8	9.15		0.983	5.52		1
01650	Calcium	7440-70-2	3,350		6.77	22.1		1
01654	Iron	7439-89-6	23,500		5.20	22.1		1
01656	Lithium	7439-93-2	29.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,530		2.80	11.0		1
06958	Manganese	7439-96-5	238		0.0861	0.552		1
10145	Phosphorus	7723-14-0	369		0.618	11.0		1
01662	Potassium	7440-09-7	1,740		19.9	55.2		1
01667	Sodium	7440-23-5	130		41.2	110		1
07968	Strontium	7440-24-6	20.5		0.0684	0.552		1
06969	Tin	7440-31-5	2.66	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,130		0.420	1.10		1
10146	Zirconium	7440-67-7	0.927	U	0.927	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0825	J	0.0689	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.56		0.0918	0.459		2
06126	Barium	7440-39-3	84.6		0.124	0.459		2
06127	Beryllium	7440-41-7	0.577		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.102	J	0.0459	0.115		2
06131	Chromium	7440-47-3	23.3		0.138	0.459		2

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SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	6.75	0.0230	0.115		2
06133	Copper	7440-50-8	8.29	0.0758	0.459		2
06135	Lead	7439-92-1	5.48	0.0119	0.230		2
06138	Molybdenum	7439-98-7	0.446	0.0574	0.115		2
06139	Nickel	7440-02-0	14.3	0.115	0.459		2
06141	Selenium	7782-49-2	0.0478 J	0.0459	0.459		2
06142	Silver	7440-22-4	0.0515 J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.243	0.0344	0.115		2
06148	Vanadium	7440-62-2	41.1	0.0253	0.115		2
06149	Zinc	7440-66-6	53.5	0.643	3.44		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0109 J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.92	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	324	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.50	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-227-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-227-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 21:31	Sara E Johnson	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 14:23	Jason M Long	21.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:03	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110324092	04/13/2011 18:58	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 05:13	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 15:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 23:14	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:24	Damary Valentin	1

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Sample Description: **SL-227-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/26/2011 00:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/28/2011 00:48	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 13:40	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101B	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401B	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-228-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.86
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.86
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.86
06192	Methylene Chloride	75-09-2	4.2		0.24	3.9		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.86

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Sample Description: SL-228-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.3	U	4.3	13		18.85
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-228-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-228-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.72	22.8		1
07914	Boron	7440-42-8	8.56		1.01	5.69		1
01650	Calcium	7440-70-2	2,150		6.98	22.8		1
01654	Iron	7439-89-6	19,500		5.36	22.8		1
01656	Lithium	7439-93-2	21.1		0.25	2.3		1
01657	Magnesium	7439-95-4	3,650		2.89	11.4		1
06958	Manganese	7439-96-5	116		0.0888	0.569		1
10145	Phosphorus	7723-14-0	179		0.637	11.4		1
01662	Potassium	7440-09-7	1,300		20.5	56.9		1
01667	Sodium	7440-23-5	179		42.4	114		1
07968	Strontium	7440-24-6	16.1		0.0706	0.569		1
06969	Tin	7440-31-5	2.75	J	1.14	11.4		1
06970	Titanium	7440-32-6	903		0.432	1.14		1
10146	Zirconium	7440-67-7	0.956	U	0.956	5.69		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0676	U	0.0676	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.66		0.0902	0.451		2

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Sample Description: SL-228-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	66.4	0.122	0.451		2
06127	Beryllium	7440-41-7	0.651	0.0180	0.113		2
06128	Cadmium	7440-43-9	0.0660 J	0.0451	0.113		2
06131	Chromium	7440-47-3	18.7	0.135	0.451		2
06132	Cobalt	7440-48-4	3.57	0.0225	0.113		2
06133	Copper	7440-50-8	6.85	0.0744	0.451		2
06135	Lead	7439-92-1	4.81	0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.341	0.0563	0.113		2
06139	Nickel	7440-02-0	9.37	0.113	0.451		2
06141	Selenium	7782-49-2	0.0453 J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0469 J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.233	0.0338	0.113		2
06148	Vanadium	7440-62-2	35.2	0.0248	0.113		2
06149	Zinc	7440-66-6	38.0	0.631	3.38		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0065 J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.92	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	303	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.96	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-228-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-228-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 21:53	Sara E Johnson	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 14:42	Jason M Long	18.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:07	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110324092	04/13/2011 19:11	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110324092	04/13/2011 19:05	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 05:38	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 15:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 19:07	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 23:33	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:28	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 10:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-228-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 13:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 10:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/26/2011 01:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/28/2011 01:10	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11113243201A	04/28/2011 15:01	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101B	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401B	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-041211 Water
SSFL Area IV Collocated Soil Sampling
TB-041211

LLI Sample # WW 6256879
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12521 SDG#: DE125-21TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-041211 Water
SSFL Area IV Collocated Soil Sampling
TB-041211

LLI Sample # WW 6256879
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12521 SDG#: DE125-21TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111081AA	04/18/2011 05:27	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111032AA	04/13/2011 20:25	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111032AA	04/13/2011 20:25	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111081AA	04/18/2011 05:27	Holly Berry	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111032AA	Sample number(s): 6256874-6256878									
Acetone	6.7	U	6.7	8.0	ug/kg	83		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	105		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	121		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	88		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	78		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	88		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	104		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	108		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	101		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	94		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	98		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	78		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	77		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	99		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	90		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	76		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	84		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	89		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	97		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	95		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	96		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	100		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	79		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	94		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	107		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	99		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	96		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	89		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	94		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	108		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	102		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	90		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	104		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	92		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	92		61-134		
Methylene Chloride	1.3	J	0.24	4.0	ug/kg	104		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	107		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	93		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	92		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	101		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	97		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	93		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	97		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	96		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	100		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	92		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	98		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	104		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	91		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	95		80-120		
Batch number: E111032AA	Sample number(s): 6256879									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	113		80-123		
Batch number: E111041AA	Sample number(s): 6256874-6256878									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	113	110	70-130	3	30
Batch number: Y111081AA	Sample number(s): 6256879									
Acetone	6	U	6.	20	ug/l	117	117	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	104	104	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	101	101	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	111	109	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	98	95	80-120	2	30
Bromoform	1	U	1.	5	ug/l	79	79	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	93	90	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	115	115	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	96	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	98	98	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	107	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	81	80	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	99	100	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	108	107	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	96	94	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	98	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	98	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	105	104	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	81	82	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	93	93	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	103	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	105	104	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	99	100	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	98	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	92	91	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	102	79-120	0	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	117	117	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	102	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	101	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	99	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	103	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	89	90	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	103	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	92	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	86	88	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	100	79-120	0	30
Freon 113	2	U	2.	10	ug/l	115	114	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	123*	124*	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	84	86	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	104	105	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	100	101	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	97	98	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	101	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	100	103	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	107	104	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	100	100	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	95	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	102	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	101	101	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	92	93	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	86	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	104	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	102	103	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	104	102	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	116	114	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	102	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	97	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	101	99	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	88	88	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	101	100	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
Batch number: 11106SLA026	Sample number(s): 6256859-6256872,6256874-6256878									
Aniline	170 U		170.	500	ug/kg	52		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	41		15-121		
Benzoic acid	170 U		170.	500	ug/kg	77		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	78		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	82		79-117		
Carbazole	33	U	33.	170	ug/kg	89		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	83		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	33		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	86		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	84		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	79		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	77		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	88		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	83		79-110		

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	33	U	33.	170	ug/kg	83		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	78*		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	80		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	81		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	37		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	87		75-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	86		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	87		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	73		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	73		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	83		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	84		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	91		77-111		
bis(2-Ethylhexyl)phthalate	67	U	67.	330	ug/kg	95		75-117		
Hexachlorobenzene	33	U	33.	170	ug/kg	83		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	81		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	75		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	81		68-105		
Isophorone	33	U	33.	170	ug/kg	83		69-110		
2-Methylphenol	67	U	67.	170	ug/kg	83		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	88		66-117		
2-Nitroaniline	33	U	33.	170	ug/kg	86		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	80		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	64		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	86		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	84		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	80		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	81		63-107		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	90		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	70		51-117		
Phenol	33	U	33.	170	ug/kg	79		58-112		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	83		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	85		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	88		78-111		
Batch number: 11106WAD026	Sample number(s): 6256873									
Acenaphthene	0.010	U	0.010	0.050	ug/l	116*	95	74-109	20	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	107	95	70-110	12	30
Anthracene	0.010	U	0.010	0.050	ug/l	107	98	66-111	9	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	111	108	72-114	2	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	110	106	60-127	3	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	118	110	69-123	7	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	110	106	57-131	4	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	111	111	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	78	81	40-138	3	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	105	102	74-131	3	30
Chrysene	0.010	U	0.010	0.050	ug/l	109	105	76-116	4	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	110	105	55-134	5	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	80	75	57-134	6	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	54	57	40-119	6	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	143	123	57-154	15	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	109	104	75-116	5	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	0.010	U	0.010	0.050	ug/l	112	101	75-114	11	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	111	107	69-124	4	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	106	93	71-117	14	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	95	83	75-115	14	30
Naphthalene	0.030	U	0.030	0.050	ug/l	103	88	72-109	15	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	89	66	36-89	30	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	154*	144	57-145	7	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	107	98	76-111	9	30
Pyrene	0.010	U	0.010	0.050	ug/l	108	102	69-118	6	30
Batch number: 11108SLA026	Sample number(s): 6256859,6256863-6256866,6256869									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	90		70-130		
Batch number: 11108SLD026	Sample number(s): 6256859-6256872,6256874-6256878									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	109		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	103		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	105		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	114		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	110		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	110		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	125		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	123		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	110		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	116		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	113		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	139		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	111		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	112		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	116		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	103		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	98		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	102		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	126		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	105		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	106		56-121		
Batch number: 11108WAC026	Sample number(s): 6256873									
Aniline	1	U	1.	5	ug/l	92	88	49-101	5	30
Benzidine	20	U	20.	60	ug/l	86	77	34-117	12	30
Benzoic acid	6	U	6.	15	ug/l	40	44	10-69	12	30
Benzyl alcohol	5	U	5.	15	ug/l	87	86	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	98	104	82-117	6	30
Carbazole	1	U	1.	5	ug/l	98	103	81-114	6	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	100	100	70-123	0	30
4-Chloroaniline	1	U	1.	5	ug/l	88	69	42-124	24	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	100	106	74-124	6	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	97	102	77-108	5	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	92	97	62-127	5	30
2-Chloronaphthalene	2	U	2.	5	ug/l	68	68	54-132	1	30
2-Chlorophenol	1	U	1.	5	ug/l	92	95	77-108	3	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	96	99	82-111	3	30
Dibenzofuran	1	U	1.	5	ug/l	97	101	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	82	87	55-118	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	82	88	50-119	7	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	1	U	1.	5	ug/l	82	85	53-119	4	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	83	66	49-111	22	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	99	105	80-109	6	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	103	104	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	96	100	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	99	102	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	97	103	52-131	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	97	98	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	95	96	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	110	118*	78-116	8	30
Hexachlorobenzene	1	U	1.	5	ug/l	97	103	81-118	6	30
Hexachlorobutadiene	1	U	1.	5	ug/l	88	90	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	90	88	36-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	82	86	52-113	5	30
Isophorone	1	U	1.	5	ug/l	105	108	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	86	86	64-101	0	30
4-Methylphenol	2	U	2.	5	ug/l	81	78	61-103	4	30
2-Nitroaniline	1	U	1.	5	ug/l	101	103	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	100	98	74-113	2	30
4-Nitroaniline	1	U	1.	5	ug/l	82	84	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	104	108	75-109	3	30
2-Nitrophenol	1	U	1.	5	ug/l	100	103	86-120	3	30
4-Nitrophenol	10	U	10.	30	ug/l	49	45	16-78	8	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	102	107	69-110	5	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	101	106	67-136	5	30
Pentachlorophenol	3	U	3.	15	ug/l	101	108	53-110	7	30
Phenol	1	U	1.	5	ug/l	40	36	21-67	9	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	95	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	96	103	79-107	7	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	102	103	81-113	1	30
Batch number: 111080010A	Sample number(s): 6256859,6256863-6256865,6256869									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	119		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	117		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
HMX	100 U		100.	300	ug/kg	109		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	96		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	117		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	111		80-120		
PETN	800 U		800.	2,400	ug/kg	126*		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	86		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	119		80-120		
Batch number: 111160004A	Sample number(s): 6256866									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	116		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	107	54-134	9	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	106	54-134	9	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	114		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	110		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
HMX	100	U	100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	124*		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	96		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	112		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	114		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800	U	800.	2,400	ug/kg	124*		80-120		
RDX	50	U	50.	120	ug/kg	107		75-131		
Tetryl	61	U	61.	120	ug/kg	91		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 111150004A	Sample number(s): 6256859,6256863-6256866,6256869									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	98		80-126		
Batch number: 111080018A	Sample number(s): 6256861,6256865,6256871,6256875,6256878									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		85-115		
Batch number: 111040007A	Sample number(s): 6256873									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	90*	92*	35-84	2	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	94	98	51-128	4	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	88	94	56-135	7	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111080012A	Sample number(s): 6256859-6256872,6256874-6256878									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	95	93	36-106	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	96		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	113		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111090022A	Sample number(s): 6256859,6256863-6256866,6256868-6256869									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	93		66-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C21-C30)	0.93	J	0.40	1.2	mg/kg	98		66-113		
EFH (C30 - C40)	0.92	J	0.40	1.2	mg/kg	85		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	70		66-113		
Batch number: 111030032A	Sample number(s): 6256859,6256863-6256866,6256869									
Ethanol	100 U		100.	500	ug/kg	86		71-129		
Isopropanol	100 U		100.	500	ug/kg	91		75-125		
Methanol	100 U		100.	500	ug/kg	84		68-129		
Batch number: 111050021A	Sample number(s): 6256859-6256861,6256863-6256865									
Diethylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	104		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Batch number: 111090001A	Sample number(s): 6256870-6256871									
Diethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	105		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Batch number: 111100003A	Sample number(s): 6256866,6256869									
Diethylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	109		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Batch number: 111040022A	Sample number(s): 6256859,6256863-6256866,6256869									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 111081848006	Sample number(s): 6256873									
Aluminum	0.0834	U	0.0834	0.200	mg/l	102	101	90-112	1	20
Boron	0.0138	U	0.0138	0.0500	mg/l	98	97	89-110	1	20
Calcium	0.0702	U	0.0702	0.200	mg/l	104	104	90-112	0	20
Iron	0.0522	U	0.0522	0.200	mg/l	104	105	90-112	1	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	101	100	80-120	1	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	102	102	89-110	1	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	103	103	90-110	0	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	104	103	80-120	1	20
Potassium	0.239	U	0.239	0.500	mg/l	102	101	85-115	1	20
Sodium	0.433	U	0.433	1.00	mg/l	101	99	87-114	2	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	103	102	90-110	1	20
Tin	0.0098	U	0.0098	0.0200	mg/l	101	101	90-110	0	20
Titanium	0.0038	U	0.0038	0.0100	mg/l	102	102	90-113	0	20
Zirconium	0.0206	U	0.0206	0.0500	mg/l	104	104	80-120	0	20
Batch number: 111086050002A	Sample number(s): 6256873									
Antimony	0.00030	U	0.00030	0.0010	mg/l	93	100	87-110	8	20
Arsenic	0.00095	U	0.00095	0.0020	mg/l	96	103	86-111	7	20
Beryllium	0.00013	U	0.00013	0.00050	mg/l	103	101	90-112	2	20
Cadmium	0.00020	U	0.00020	0.00050	mg/l	103	103	90-114	0	20
Chromium	0.00060	U	0.00060	0.0020	mg/l	104	106	90-118	1	20
Cobalt	0.00010	U	0.00010	0.00050	mg/l	99	98	87-113	1	20
Copper	0.00038	U	0.00038	0.0020	mg/l	105	105	90-113	0	20
Lead	0.000052		0.00005	0.0010	mg/l	105	103	90-115	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	U	2							
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	106	90-113	1	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	104	104	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	106	100	89-116	7	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	107	106	89-116	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	97	101	90-116	4	20
Batch number: 111086050002B	Sample number(s): 6256873								
Selenium	0.00025 U	0.00025	0.0020	mg/l	100	97	85-114	3	20
Batch number: 111086050002C	Sample number(s): 6256873								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	104	103	89-115	1	20
Batch number: 111086050002D	Sample number(s): 6256873								
Barium	0.00053 U	0.00053	0.0020	mg/l	107	108	88-113	2	20
Batch number: 111095713004	Sample number(s): 6256873								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	96	94	80-120	3	20
Batch number: 111101026001A	Sample number(s): 6256859-6256872,6256874-6256878								
Antimony	0.0577 U	0.0577	0.192	mg/kg	65		27-181		
Arsenic	0.0769 U	0.0769	0.385	mg/kg	96		83-113		
Beryllium	0.0154 U	0.0154	0.0962	mg/kg	100		86-111		
Cadmium	0.0385 U	0.0385	0.0962	mg/kg	101		82-118		
Chromium	0.115 U	0.115	0.385	mg/kg	105		80-120		
Cobalt	0.0192 U	0.0192	0.0962	mg/kg	106		82-118		
Copper	0.276 J	0.0635	0.385	mg/kg	85		83-110		
Lead	0.0100 U	0.0100	0.192	mg/kg	93		83-110		
Nickel	0.0962 U	0.0962	0.385	mg/kg	98		81-110		
Silver	0.0115 U	0.0115	0.0962	mg/kg	97		81-111		
Thallium	0.0288 U	0.0288	0.0962	mg/kg	95		83-110		
Vanadium	0.0212 U	0.0212	0.0962	mg/kg	105		87-117		
Zinc	0.538 U	0.538	2.88	mg/kg	101		81-112		
Batch number: 111101026001B	Sample number(s): 6256859-6256872,6256874-6256878								
Selenium	0.0385 U	0.0385	0.385	mg/kg	98		83-111		
Batch number: 111101026001C	Sample number(s): 6256859-6256872,6256874-6256878								
Molybdenum	0.0481 U	0.0481	0.0962	mg/kg	106		78-122		
Batch number: 111101026001D	Sample number(s): 6256859-6256872,6256874-6256878								
Barium	0.104 U	0.104	0.385	mg/kg	101		81-111		
Batch number: 111105708002	Sample number(s): 6256859-6256872,6256874-6256878								
Aluminum	4.98 U	4.98	19.8	mg/kg	88		61-110		
Boron	0.881 U	0.881	4.95	mg/kg	96		78-110		
Calcium	6.07 U	6.07	19.8	mg/kg	98		88-110		
Iron	4.66 U	4.66	19.8	mg/kg	84		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.51 U	2.51	9.90	mg/kg	98		82-110		
Manganese	0.0772 U	0.0772	0.495	mg/kg	101		89-112		
Phosphorus	1.41 J	0.554	9.90	mg/kg	100		80-120		
Potassium	17.8 U	17.8	49.5	mg/kg	97		78-110		
Sodium	36.9 U	36.9	99.0	mg/kg	101		87-110		
Strontium	0.0614 U	0.0614	0.495	mg/kg	102		86-110		
Tin	1.40 J	0.990	9.90	mg/kg	99		90-114		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Titanium	0.376	U	0.376	0.990	mg/kg	83		80-120		
Zirconium	0.832	U	0.832	4.95	mg/kg	97		80-120		
Batch number: 111105711001	Sample number(s): 6256859-6256872,6256874-6256878									
Mercury	0.0029	U	0.0029	0.0997	mg/kg	97		88-123		
Batch number: 11103196401B	Sample number(s): 6256873									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	100	100	90-110	0	20
Batch number: 11108196601C	Sample number(s): 6256873									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	100	105	90-110	5	20
Batch number: 11111102201A	Sample number(s): 6256859									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11111102201B	Sample number(s): 6256863-6256866,6256869									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11113243201A	Sample number(s): 6256859-6256872,6256874-6256878									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	96		80-120		
Batch number: 11115196701A	Sample number(s): 6256873									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	90	96	85-115	6	20
Batch number: 11115621202A	Sample number(s): 6256859-6256868									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11115621202B	Sample number(s): 6256869-6256872,6256874-6256878									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11116621202A	Sample number(s): 6256859-6256868									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	91		85-115		
Batch number: 11116621202B	Sample number(s): 6256869-6256872,6256874-6256878									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	91		85-115		
Batch number: 11104020003A	Sample number(s): 6256873									
18b pH by 9040B						100	100	90-110	0	1
Batch number: 11109039401B	Sample number(s): 6256859-6256865									
18a pH by 9045C						100		95-105		
Batch number: 11109182101B	Sample number(s): 6256859-6256865									
32a OR Potential						100		98-102		
Batch number: 11110039401A	Sample number(s): 6256866-6256872,6256874-6256875									
18a pH by 9045C						100		95-105		
Batch number: 11110039401B	Sample number(s): 6256876-6256878									
18a pH by 9045C						100		95-105		
Batch number: 11110182101A	Sample number(s): 6256866-6256872,6256874-6256875									
32a OR Potential						100		98-102		
Batch number: 11110182101B	Sample number(s): 6256876-6256878									
32a OR Potential						100		98-102		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11111162401A	Sample number(s): 6256860-6256862,6256867-6256868,6256870-6256872,6256874-6256878								
Moisture Content by 160.3					99		80-120		
Batch number: 11124162401A	Sample number(s): 6256866								
Moisture Content by 160.3					100		80-120		
Batch number: 11126162401B	Sample number(s): 6256859,6256863-6256865,6256869								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111032AA	Sample number(s): 6256874-6256878 UNSPK: P255761								
Acetone	76	75	15-210	3	30				
Benzene	110	113	55-143	1	30				
Bromobenzene	108	113	43-139	2	30				
Bromochloromethane	120	118	60-137	4	30				
Bromodichloromethane	96	98	53-136	0	30				
Bromoform	86	86	38-124	2	30				
Bromomethane	78	77	42-168	4	30				
2-Butanone	81	80	37-163	2	30				
n-Butylbenzene	110	119	30-146	6	30				
sec-Butylbenzene	118	126	33-157	5	30				
tert-Butylbenzene	110	115	41-152	3	30				
Carbon Tetrachloride	102	105	45-153	1	30				
Chlorobenzene	104	108	49-135	2	30				
Chloroethane	81	81	39-152	2	30				
2-Chloroethyl Vinyl Ether	72	74	32-139	0	30				
Chloroform	104	107	61-142	1	30				
Chloromethane	96	97	51-163	1	30				
2-Chlorotoluene	110	114	42-146	2	30				
4-Chlorotoluene	108	115	39-145	4	30				
Chlorotrifluoroethene	92	89	70-130	11	30				
1,2-Dibromo-3-chloropropane	81	84	30-139	1	30				
Dibromochloromethane	90	93	51-128	1	30				
1,2-Dibromoethane	97	99	54-129	0	30				
Dibromomethane	94	95	57-130	1	30				
1,2-Dichlorobenzene	101	105	36-133	3	30				
1,3-Dichlorobenzene	104	110	34-134	4	30				
1,4-Dichlorobenzene	104	108	35-136	3	30				
Dichlorodifluoromethane	86	89	26-151	1	30				
1,1-Dichloroethane	105	109	63-142	1	30				
1,2-Dichloroethane	94	96	68-131	0	30				
1,1-Dichloroethene	118	118	61-149	2	30				
cis-1,2-Dichloroethene	107	111	60-136	1	30				
trans-1,2-Dichloroethene	110	114	59-142	2	30				
1,2-Dichloropropane	104	106	62-135	1	30				
1,3-Dichloropropane	98	100	58-129	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,2-Dichloropropane	95	98	53-147	1	30				
1,1-Dichloropropene	109	109	54-145	1	30				
cis-1,3-Dichloropropene	97	99	51-131	1	30				
trans-1,3-Dichloropropene	89	91	49-129	1	30				
Ethylbenzene	107	110	44-141	2	30				
Freon 113	124	124	56-156	2	30				
Freon 133a	114	113	61-131	8	30				
Hexachlorobutadiene	95	112	10-155	15	30				
2-Hexanone	84	85	32-160	1	30				
Isopropylbenzene	109	113	38-144	2	30				
p-Isopropyltoluene	112	119	29-152	5	30				
Methyl Tertiary Butyl Ether	92	93	55-129	1	30				
4-Methyl-2-pentanone	85	83	46-139	4	30				
Methylene Chloride	106	125	61-141	14	30				
n-Propylbenzene	119	124	39-157	2	30				
Styrene	99	104	35-134	3	30				
1,1,1,2-Tetrachloroethane	98	100	52-130	0	30				
1,1,2,2-Tetrachloroethane	96	98	40-152	0	30				
Tetrachloroethene	109	113	42-149	1	30				
Toluene	108	111	50-146	2	30				
1,2,3-Trichlorobenzene	93	102	10-140	8	30				
1,2,4-Trichlorobenzene	91	98	10-136	7	30				
1,1,1-Trichloroethane	106	106	64-142	1	30				
1,1,2-Trichloroethane	99	99	54-139	2	30				
Trichloroethene	106	108	53-144	0	30				
Trichlorofluoromethane	98	99	47-163	0	30				
1,2,3-Trichloropropane	97	97	45-154	2	30				
1,2,4-Trimethylbenzene	108	114	37-149	3	30				
1,3,5-Trimethylbenzene	112	117	38-150	3	30				
Vinyl Chloride	98	99	50-154	0	30				
m+p-Xylene	106	109	44-137	1	30				
o-Xylene	102	105	42-137	1	30				
Batch number: E111032AA	Sample number(s): 6256879 UNSPK: P254390								
1,4-Dioxane	84	99	73-138	11	30				
Batch number: E111041AA	Sample number(s): 6256874-6256878 UNSPK: P255761								
1,4-Dioxane	89	98	70-130	13	30				
Batch number: 11106SLA026	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256859								
Aniline	68	43	35-95	46*	30				
Benzidine	33*	36	35-141	10	30				
Benzoic acid	53	54	10-173	1	30				
Benzyl alcohol	83	88	67-115	6	30				
4-Bromophenyl-phenylether	88	92	67-129	4	30				
Carbazole	90	94	64-120	3	30				
4-Chloro-3-methylphenol	85	88	76-110	3	30				
4-Chloroaniline	52	19*	23-95	93*	30				
bis(2-Chloroethoxy)methane	87	93	75-104	6	30				
bis(2-Chloroethyl)ether	84	93	60-116	10	30				
bis(2-Chloroisopropyl)ether	80	86	55-142	7	30				
2-Chloronaphthalene	71	76	50-141	6	30				
2-Chlorophenol	90	96	73-121	6	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chlorophenyl-phenylether	87	90	80-109	3	30				
Dibenzofuran	87	90	71-112	3	30				
1,2-Dichlorobenzene	79	85	66-108	7	30				
1,3-Dichlorobenzene	81	88	63-109	8	30				
1,4-Dichlorobenzene	82	88	70-100	7	30				
3,3'-Dichlorobenzidine	61	39	16-119	43*	30				
2,4-Dichlorophenol	90	93	78-117	4	30				
2,4-Dimethylphenol	88	92	78-110	5	30				
3,5-Dimethylphenol	91	92	70-130	1	30				
4,6-Dinitro-2-methylphenol	73	76	24-116	4	30				
2,4-Dinitrophenol	65	65	20-143	1	30				
2,4-Dinitrotoluene	89	90	73-113	1	30				
2,6-Dinitrotoluene	88	91	69-123	4	30				
1,2-Diphenylhydrazine	97	100	71-129	3	30				
bis(2-Ethylhexyl)phthalate	105	110	63-122	4	30				
Hexachlorobenzene	87	89	77-114	3	30				
Hexachlorobutadiene	84	89	62-120	6	30				
Hexachlorocyclopentadiene	68	65	10-153	5	30				
Hexachloroethane	80	86	57-109	8	30				
Isophorone	85	89	73-102	4	30				
2-Methylphenol	85	90	75-111	6	30				
4-Methylphenol	93	94	71-111	1	30				
2-Nitroaniline	92	95	67-125	3	30				
3-Nitroaniline	86	81	59-122	7	30				
4-Nitroaniline	68	62	52-112	9	30				
Nitrobenzene	87	93	72-106	6	30				
2-Nitrophenol	88	92	74-115	4	30				
4-Nitrophenol	84	89	54-113	5	30				
N-Nitroso-di-n-propylamine	83	88	60-116	5	30				
N-Nitrosodiphenylamine	94	98	86-145	4	30				
Pentachlorophenol	69	73	28-127	5	30				
Phenol	82	87	58-126	6	30				
1,2,4-Trichlorobenzene	87	93	72-115	6	30				
2,4,5-Trichlorophenol	90	95	78-109	5	30				
2,4,6-Trichlorophenol	94	94	77-115	0	30				
Batch number: 11108SLA026	Sample number(s): 6256859,6256863-6256866,6256869 UNSPK: P255761								
N-Nitrosodimethylamine	34*	52*	70-130	38*	30				
Batch number: 11108SLD026	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256859								
Acenaphthene	106*	102	63-105	4	30				
Acenaphthylene	99	100	67-114	0	30				
Anthracene	106	105	60-122	1	30				
Benzo(a)anthracene	107	108	59-128	1	30				
Benzo(a)pyrene	105	106	45-138	0	30				
Benzo(b)fluoranthene	120	108	43-155	11	30				
Benzo(g,h,i)perylene	66	64	33-141	2	30				
Benzo(k)fluoranthene	100	112	42-144	11	30				
Butylbenzylphthalate	123	126	57-173	2	30				
Di-n-butylphthalate	130	122	65-148	6	30				
Chrysene	101	102	48-134	1	30				
Dibenz(a,h)anthracene	87	87	22-133	0	30				
Diethylphthalate	95	93	70-136	3	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dimethylphthalate	108	109	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	145	146	39-167	0	30				
Fluoranthene	111	111	26-166	0	30				
Fluorene	104	103	66-122	1	30				
Indeno(1,2,3-cd)pyrene	86	84	21-143	2	30				
1-Methylnaphthalene	102	100	72-123	2	30				
2-Methylnaphthalene	93	91	64-103	2	30				
Naphthalene	100	96	61-102	4	30				
N-Nitrosodimethylamine	101	105	48-113	4	30				
Di-n-octylphthalate	110	109	40-192	1	30				
Phenanthrene	102	101	12-165	1	30				
Pyrene	95	98	15-153	3	30				
Batch number: 111080010A	Sample number(s): 6256859,6256863-6256865,6256869 UNSPK: P255761								
4-Amino-2,6-Dinitrotoluene	89	105	80-127	17	50				
2-Amino-4,6-Dinitrotoluene	90	104	80-137	15	50				
1,3-Dinitrobenzene	65	80	38-166	19	50				
2,4-Dinitrotoluene	78*	91	80-131	15	50				
2,6-Dinitrotoluene	86	100	80-127	15	50				
HMX	86	105	63-128	20	50				
Nitrobenzene	91	101	80-125	10	50				
Nitroglycerin	84	100	80-120	17	50				
2-Nitrotoluene	95	107	80-122	12	50				
3-Nitrotoluene	98	111	72-119	12	50				
4-Nitrotoluene	94	107	80-125	12	50				
PETN	102	122*	80-121	17	50				
RDX	108	118	75-129	9	50				
Tetryl	47*	57	55-174	19	50				
1,3,5-Trinitrobenzene	47*	65*	82-126	33	50				
2,4,6-Trinitrotoluene	53*	74*	82-130	32	50				
Batch number: 111160004A	Sample number(s): 6256866 UNSPK: P262830								
4-Amino-2,6-Dinitrotoluene	102	108	80-127	5	50				
2-Amino-4,6-Dinitrotoluene	100	107	80-137	6	50				
1,3-Dinitrobenzene	102	108	38-166	5	50				
2,4-Dinitrotoluene	99	105	80-131	6	50				
2,6-Dinitrotoluene	104	110	80-127	5	50				
HMX	91	99	63-128	8	50				
Nitrobenzene	98	109	80-125	11	50				
Nitroglycerin	94	99	80-120	6	50				
2-Nitrotoluene	101	106	80-122	4	50				
3-Nitrotoluene	105	110	72-119	4	50				
4-Nitrotoluene	100	104	80-125	4	50				
PETN	113	121	80-121	7	50				
RDX	93	97	75-129	5	50				
Tetryl	92	92	55-174	0	50				
1,3,5-Trinitrobenzene	99	105	82-126	6	50				
2,4,6-Trinitrotoluene	101	106	82-130	5	50				
Batch number: 111150004A	Sample number(s): 6256859,6256863-6256866,6256869 UNSPK: P255761								
25a Formaldehyde 8315A	88	97	80-120	3	50				
Batch number: 111080018A	Sample number(s): 6256861,6256865,6256871,6256875,6256878 UNSPK: P255784								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
6a Perchlorate EPA 6850	104	105	80-120	1	20				
Batch number: 111080012A	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256859								
PCB-1016	93	96	29-146	3	50				
PCB-1260	92	102	39-149	9	50				
Batch number: 111090022A	Sample number(s): 6256859,6256863-6256866,6256868-6256869 UNSPK: P257874								
EFH (C12-C14)	101	84	49-123	16	20				
EFH (C15-C20)	106	83	49-123	10	20				
EFH (C21-C30)	-11 (2)	-128 (2)	49-123	21*	20				
EFH (C30 - C40)	-1743 (2)	-1815 (2)	49-123	9	20				
EFH (C8-C11)	73	61	49-123	17	20				
Batch number: 111030032A	Sample number(s): 6256859,6256863-6256866,6256869 UNSPK: P255761								
Ethanol	66	64	48-130	2	20				
Isopropanol	70	72	12-149	3	20				
Methanol	65	52	43-138	22*	20				
Batch number: 111050021A	Sample number(s): 6256859-6256861,6256863-6256865 UNSPK: P255798								
Diethylene glycol	76	84	59-109	10	20				
Ethylene glycol	81	90	63-107	9	20				
Propylene glycol	91	97	63-107	7	20				
Batch number: 111090001A	Sample number(s): 6256870-6256871 UNSPK: P259054								
Diethylene glycol	77	89	59-109	14	20				
Ethylene glycol	84	93	63-107	9	20				
Propylene glycol	90	96	63-107	6	20				
Batch number: 111100003A	Sample number(s): 6256866,6256869 UNSPK: P259058								
Diethylene glycol	78	92	59-109	16	20				
Ethylene glycol	91	95	63-107	3	20				
Propylene glycol	93	93	63-107	0	20				
Batch number: 111040022A	Sample number(s): 6256859,6256863-6256866,6256869 UNSPK: P255761								
m-Terphenyl	80	79	75-125	1	20				
o-Terphenyl	92	95	75-125	2	20				
p-Terphenyl	75	76	75-125	0	20				
Batch number: 111101026001A	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256865 BKG: 6256865								
Antimony	26*	18*	75-125	26*	20	0.125 J	0.111 J	12 (1)	20
Arsenic	83	70*	75-125	4	20	5.17	4.72	9	20
Beryllium	88	85	75-125	3	20	0.593	0.542	9	20
Cadmium	96	90	75-125	6	20	0.254	0.287	12 (1)	20
Chromium	111	122	75-125	3	20	23.6	22.7	4	20
Cobalt	102	101	75-125	1	20	8.96	8.88	1	20
Copper	94	79	75-125	7	20	12.0	10.8	10	20
Lead	124	124	75-125	0	20	8.09	7.35	10	20
Nickel	90	93	75-125	1	20	13.8	12.0	14	20
Silver	101	100	75-125	2	20	0.0327 J	0.0326 J	1 (1)	20
Thallium	100	112	75-125	6	20	0.270	0.275	2 (1)	20
Vanadium	131 (2)	145 (2)	75-125	2	20	42.8	40.2	6	20

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Quality Control Summary

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Reported: 05/12/11 at 01:25 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Zinc	56 (2)	61 (2)	75-125	1	20	71.6	75.7	6	20
Batch number: 111101026001B	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256865 BKG: 6256865								
Selenium	90	88	75-125	3	20	0.240 J	0.173 J	32* (1)	20
Batch number: 111101026001C	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256865 BKG: 6256865								
Molybdenum	89	86	75-125	4	20	0.501	0.439	13 (1)	20
Batch number: 111101026001D	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256865 BKG: 6256865								
Barium	21 (2)	119 (2)	75-125	6	20	157	159	2	20
Batch number: 111105708002	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256859 BKG: 6256859								
Aluminum	2690 (2)	2738 (2)	75-125	1	20	21,200	20,300	4	20
Boron	95	95	84-115	2	20	14.2	14.0	1 (1)	20
Calcium	-226 (2)	168 (2)	75-125	9	20	16,900	16,900	0	20
Iron	1265 (2)	1019 (2)	75-125	1	20	23,500	26,300	11	20
Lithium	102	101	82-114	1	20	19.5	18.6	5	20
Magnesium	378 (2)	270 (2)	75-125	3	20	5,900	5,780	2	20
Manganese	122 (2)	101 (2)	75-125	2	20	376	371	1	20
Phosphorus	107 (2)	140 (2)	75-125	6	20	410	422	3	20
Potassium	151 (2)	135 (2)	75-125	2	20	4,840	4,640	4	20
Sodium	104	104	75-125	1	20	87.2 J	82.1 J	6 (1)	20
Strontium	93	95	75-115	3	20	37.9	37.5	1	20
Tin	83	83	80-110	1	20	2.24 J	2.26 J	1 (1)	20
Titanium	367 (2)	323 (2)	75-125	3	20	987	928	6	20
Zirconium	84	86	75-125	3	20	2.41 J	3.18 J	28* (1)	20
Batch number: 111105711001	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256859 BKG: 6256859								
Mercury	133	111	65-135	16	20	0.0220 J	0.0593 J	92* (1)	20
Batch number: 11111102201A	Sample number(s): 6256859 UNSPK: P255761 BKG: P255761								
17a Cyanide by 9012B	105		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11111102201B	Sample number(s): 6256863-6256866,6256869 UNSPK: 6256863 BKG: 6256863								
17a Cyanide by 9012B	107		75-125			0.17 U	0.17 U	0 (1)	20
Batch number: 11113243201A	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256877 BKG: 6256877								
3a Cr VI by EPA 7199	103		75-125			0.20 U	0.57 J	200* (1)	20
Batch number: 11115621202A	Sample number(s): 6256859-6256868 UNSPK: 6256859 BKG: 6256859								
11a Anions by 300.0 - Fluoride	60*		80-120			2.4	2.2	11 (1)	20
11a Anions by 300.0 - Nitrate	102		80-120			3.1	3.0	3 (1)	20
Batch number: 11115621202B	Sample number(s): 6256869-6256872,6256874-6256878 UNSPK: 6256869 BKG: 6256869								
11a Anions by 300.0 - Fluoride	80		80-120			1.3	1.4	4 (1)	20
11a Anions by 300.0 - Nitrate	112		80-120			1.6	1.9	15 (1)	20
Batch number: 11116621202A	Sample number(s): 6256859-6256868 UNSPK: 6256859 BKG: 6256859								
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11116621202B	Sample number(s): 6256869-6256872,6256874-6256878					UNSPK: 6256869		BKG: 6256869	
7a Perchlorate EPA 314.0	90		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11109039401B	Sample number(s): 6256859-6256865					BKG: 6256865			
18a pH by 9045C						7.85	7.87	0	1
Batch number: 11109182101B	Sample number(s): 6256859-6256865					BKG: P256476			
32a OR Potential						102	99.0	3	6
Batch number: 11110039401A	Sample number(s): 6256866-6256872,6256874-6256875					BKG: 6256866			
18a pH by 9045C						7.97	7.96	0	1
Batch number: 11110039401B	Sample number(s): 6256876-6256878					BKG: P257873			
18a pH by 9045C						8.21	8.22	0	1
Batch number: 11110182101A	Sample number(s): 6256866-6256872,6256874-6256875					BKG: 6256866			
32a OR Potential						257	259	1	6
Batch number: 11110182101B	Sample number(s): 6256876-6256878					BKG: P257477			
32a OR Potential						275	275	0	6
Batch number: 11111162401A	Sample number(s): 6256860-6256862,6256867-6256868,6256870-6256872,6256874-6256878 BKG: 6256874								
Moisture Content by 160.3						14.1	13.4	5	20
Batch number: 11124162401A	Sample number(s): 6256866 BKG: P261697								
Moisture Content by 160.3						17.6	20.0	13	20
Batch number: 11126162401B	Sample number(s): 6256859,6256863-6256865,6256869					BKG: P257885			
Moisture Content by 160.3						11.5	11.9	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111032AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6256874	93	98	100	94
6256875	92	96	101	92
6256876	95	99	99	95
6256877	94	96	99	94
6256878	93	95	99	92
Blank	98	98	98	92
LCS	99	102	100	96
MS	97	96	100	96
MSD	96	97	101	96

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Surrogate Quality Control

Limits: 80-120 80-120 81-117 74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111032AA

	Toluene-d8
6256879	100
Blank	100
LCS	100
MS	100
MSD	100

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111041AA

	Toluene-d8
6256874	96
6256875	97
6256876	97
6256877	97
6256878	97
Blank	97
LCS	98
LCSD	98
MS	96
MSD	96

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111081AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6256879	105	102	103	94
Blank	106	101	102	94
LCS	105	103	105	100
LCSD	104	102	104	100

Limits: 86-118 80-120 88-110 86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11106SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6256859	89	94	88	88	88	86
6256860	93	98	93	91	94	91
6256861	88	93	89	87	89	87
6256862	92	97	92	90	94	92
6256863	91	96	88	91	93	91
6256864	84	86	83	82	85	83
6256865	87	91	84	86	88	85
6256866	92	97	87	90	90	92
6256867	72	77	70	74	76	71
6256868	86	91	84	85	88	87
6256869	85	91	80	87	88	84

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Quality Control Summary

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Reported: 05/12/11 at 01:25 PM

Surrogate Quality Control

6256870	63	68	57	64	64	60
6256871	83	87	84	83	88	84
6256872	75	80	62	74	79	71
6256874	85	90	79	83	85	84
6256875	84	89	81	85	88	91
6256876	89	95	80	89	92	89
6256877	80	85	72	82	84	84
6256878	84	89	81	85	88	89
Blank	62	65	66	61	62*	60
LCS	85	90	85	84	83	76
MS	87	91	90	85	88	86
MSD	92	99	92	91	92	89
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11106WAD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6256873	104	88	98
Blank	113	104	115
LCS	117	101	106
LCSD	99	90	101
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11108SLA026

	N-Nitrosodimethylamine-d6
6256859	94
6256863	92
6256864	98
6256865	106
6256866	183*
6256869	99
Blank	86
LCS	86
MS	170*
MSD	111
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11108SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6256859	104	99	105
6256860	106	98	102
6256861	75	73	76
6256862	107	98	104
6256863	106	98	104
6256864	105	97	103
6256865	109	100	109
6256866	109	102	118
6256867	104	97	121

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Surrogate Quality Control

6256868	108	98	104
6256869	109	97	101
6256870	112	102	107
6256871	110	100	104
6256872	108	99	125
6256874	101	94	110
6256875	100	94	108
6256876	100	92	109
6256877	102	96	108
6256878	99	92	104
Blank	109	102	116
LCS	108	99	105
MS	106	94	96
MSD	108	99	103
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11108WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6256873	54	31	99	106	93	87
Blank	59	37	97	101	95	86
LCS	64	41	96	103	96	88
LCSD	61	39	96	109	98	91
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111040007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6256873	106	95
Blank	100	58
LCS	102	63
LCSD	107	83
Limits:	30-150	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111080010A

	2-Nitro-m-xylene
6256859	116
6256863	96
6256864	135
6256865	122
6256869	113
Blank	113
LCS	118
LCSD	110
MS	90
MSD	112
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Surrogate Quality Control

Batch number: 111080012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6256859	116	102
6256860	109	118
6256861	98	114
6256862	100	97
6256863	96	110
6256864	94	91
6256865	107	104
6256866	106	103
6256867	98	98
6256868	98	104
6256869	103	102
6256870	100	105
6256871	104	110
6256872	98	129*
6256874	106	94
6256875	103	105
6256876	97	105
6256877	103	111
6256878	102	104
Blank	101	114
LCS	100	112
LCSD	102	117
MS	97	100
MSD	99	104
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111150004A

	Butyraldehyde
6256859	89
6256863	101
6256864	97
6256865	97
6256866	98
6256869	93
Blank	100
LCS	101
MS	96
MSD	95
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111160004A

	2-Nitro-m-xylene
6256866	109
Blank	109
LCS	101
LCSD	107
MS	98
MSD	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Surrogate Quality Control

Limits: 80-146

Analysis Name: 19a Alcohols by 8015B
Batch number: 111030032A

	Acetone
6256859	70
6256863	69
6256864	69
6256865	71
6256866	68
6256869	69
Blank	90
LCS	90
MS	74
MSD	75

Limits: 42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111040022A

	n-Triacontane-d62
6256859	89
6256863	62
6256864	63
6256865	70
6256866	68
6256869	58
Blank	82
LCS	77
MS	70
MSD	83

Limits: 50-150

Analysis Name: 21a Glycols by 8015B
Batch number: 111050021A

	Tetramethylene glycol
6256859	92
6256860	89
6256861	92
6256863	85
6256864	82
6256865	85
Blank	100
LCS	103
MS	93
MSD	98

Limits: 29-137

Analysis Name: 21a Glycols by 8015B
Batch number: 111090001A

	Tetramethylene glycol

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Surrogate Quality Control

6256870	75	
6256871	75	
Blank	92	
LCS	105	
MS	90	
MSD	86	
Limits:	29-137	

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111090022A

	Chlorobenzene	Orthoterphenyl
6256859	56	69
6256863	60	72
6256864	62	70
6256865	61	72
6256866	58	69
6256868	62	75
6256869	60	70
Blank	64	67
LCS	66	75
MS	68	73
MSD	66	71
Limits:	37-125	47-145

Analysis Name: 21a Glycols by 8015B
Batch number: 111100003A

	Tetramethylene glycol
6256866	84
6256869	84
Blank	104
LCS	104
MS	110
MSD	91
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 qp#1241927 sample#6256859-79

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SECONDARY FOR ALL LOCATIONS: **TPH-ER EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-012-SA8N-SS-0.0-0.5	04.12.11	1035	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-012-SA8N-SS-0.0-0.5	04.12.11	1035	SOIL	NONE	1 SS sleeve			X	X															
SL-015-SA8N-SS-0.0-0.5	04.12.11	0935	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X									X		
SL-015-SA8N-SS-0.0-0.5	04.12.11	0935	SOIL	NONE	1 SS sleeve			X	X															
SL-016-SA8N-SS-0.0-0.5	04.12.11	0915	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X								X		
SL-016-SA8N-SS-0.0-0.5	04.12.11	0915	SOIL	NONE	1 SS sleeve			X	X															
SL-018-SA8N-SS-0.0-0.5	04.12.11	0900	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-018-SA8N-SS-0.0-0.5	04.12.11	0900	SOIL	NONE	1 SS sleeve			X	X															
SL-019-SA8N-SS-0.0-0.5	04.12.11	1105	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-019-SA8N-SS-0.0-0.5	04.12.11	1105	SOIL	NONE	1 SS sleeve			X	X															
SL-020-SA8N-SS-0.0-0.5	04.12.11	1125	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-020-SA8N-SS-0.0-0.5	04.12.11	1125	SOIL	NONE	1 SS sleeve			X	X															
SL-021-SA8N-SS-0.0-0.5	04.12.11	1315	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-021-SA8N-SS-0.0-0.5	04.12.11	1315	SOIL	NONE	1 SS sleeve			X	X															
SL-022-SA8N-SS-0.0-0.5	04.12.11	1350	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-022-SA8N-SS-0.0-0.5	04.12.11	1350	SOIL	NONE	1 SS sleeve			X	X															
SL-023-SA8N-SS-0.0-0.5	04.12.11	1410	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-023-SA8N-SS-0.0-0.5	04.12.11	1410	SOIL	NONE	1 SS sleeve			X	X															
SL-036-SA8N-SS-0.0-0.5	04.12.11	1425	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-036-SA8N-SS-0.0-0.5	04.12.11	1425	SOIL	NONE	1 SS sleeve			X	X															
SL-047-SA8N-SS-0.0-0.5	04.12.11	1330	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-047-SA8N-SS-0.0-0.5	04.12.11	1330	SOIL	NONE	1 SS sleeve			X	X															
SL-048-SA8N-SS-0.0-0.5	04.12.11	1015	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X									X		
SL-048-SA8N-SS-0.0-0.5	04.12.11	1015	SOIL	NONE	1 SS sleeve			X	X															
SL-050-SA8N-SS-0.0-0.5	04.12.11	1045	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X								X		
SL-050-SA8N-SS-0.0-0.5	04.12.11	1045	SOIL	NONE	1 SS sleeve			X	X															
SL-131-SA8N-SS-0.0-0.5	04.12.11	1500	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-131-SA8N-SS-0.0-0.5	04.12.11	1500	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature) — Date/Time: 04/12/2011 / 1700 — Received for Laboratory by: (Signature) — 4/13/11 1005

Received by: (Signature) — Date/Time

Airbill No.(s)
8700 5932 3043; 8700 5932 3065
8700 5932 3087; 8700 5932 3102

Laboratory:
Lancaster Laboratories, Inc.

acct# 13013 Gp# 1241927 sample# 62256859-79

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199f	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Stefan Butler																									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
EB01-SA8N-SS-041211	04.12.11	1600	WATER	NONE	6-1 liter ambers			X	X	X															
EB01-SA8N-SS-041211	04.12.11	1600	WATER	NONE	1-500 mL poly		X				X	X	X												
EB01-SA8N-SS-041211	04.12.11	1600	WATER	HNO3	1-500 mL poly	X																			
Relinquished by: (Signature)	Date/Time 04/12/2011 / 1700		Received for Laboratory by: (Signature) 4/13/11 1005																						Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8700 5932 3043; 8700 5932 3065 8700 5932 3087; 8700 5932 3102																						

acct#13013 Ap#1241927 Sample# 6256859-79

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals: EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs: EPA 8270C & PAHs 8270 SIM	PCBs/PCTs: EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199/	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahenyls EPA 8015B	**Glycols: EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-202-SA5A-SB-3.5	04.12.11	1410	SOIL	NONE	4-Encores										X	X											
SL-202-SA5A-SB-3.0-4.0	04.12.11	1414	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-206-SA5A-SB-4.5	04.12.11	1521	SOIL	NONE	4-Encores										X	X											
SL-206-SA5A-SB-4.0-5.0	04.12.11	1525	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X													
SL-207-SA5A-SB-3.5	04.12.11	1158	SOIL	NONE	4-Encores										X	X											
SL-207-SA5A-SB-3.0-4.0	04.12.11	1203	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-227-SA5A-SB-3.5	04.12.11	1008	SOIL	NONE	4-Encores										X	X											
SL-227-SA5A-SB-3.0-4.0	04.12.11	1013	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-228-SA5A-SB-3.5	04.12.11	0903	SOIL	NONE	4-Encores										X	X											
SL-228-SA5A-SB-3.0-4.0	04.12.11	0906	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X													
TB-041211	04.12.11		WATER	HCl	3-40 mL VOA VIALS										X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/11/2011 / 1700 — Received for Laboratory by: (Signature) 4/13/11 1005 — Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time — Airbill No.(s): 8700 5932 3043; 8700 5932 3065; 8700 5932 3087; 8700 5932 3102

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/13/2011
Group Number: 1241929
SDG: DX069
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-012-SA8N-SS-0.0-0.5 Soil	6256881
SL-015-SA8N-SS-0.0-0.5 Soil	6256882
SL-016-SA8N-SS-0.0-0.5 Soil	6256883
SL-018-SA8N-SS-0.0-0.5 Soil	6256884
SL-019-SA8N-SS-0.0-0.5 Soil	6256885
SL-020-SA8N-SS-0.0-0.5 Soil	6256886
SL-021-SA8N-SS-0.0-0.5 Soil	6256887
SL-022-SA8N-SS-0.0-0.5 Soil	6256888
SL-023-SA8N-SS-0.0-0.5 Soil	6256889
SL-036-SA8N-SS-0.0-0.5 Soil	6256890
SL-047-SA8N-SS-0.0-0.5 Soil	6256891
SL-048-SA8N-SS-0.0-0.5 Soil	6256892
SL-050-SA8N-SS-0.0-0.5 Soil	6256893
SL-131-SA8N-SS-0.0-0.5 Soil	6256894
EB01-SA8N-SS-041211 Water	6256895
SL-202-SA5A-SB-3.0-4.0 Soil	6256896
SL-206-SA5A-SB-4.0-5.0 Soil	6256897
SL-207-SA5A-SB-3.0-4.0 Soil	6256898
SL-227-SA5A-SB-3.0-4.0 Soil	6256899
SL-228-SA5A-SB-3.0-4.0 Soil	6256900

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

ELECTRONIC COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256881
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6901 SDG#: DX069-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256881
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6901 SDG#: DX069-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0210	JBQ	0.0181	1.12	1
11031	12378-PeCDD	40321-76-4	0.128	JBQ	0.0279	5.62	1
11031	123478-HxCDD	39227-28-6	0.154	JBQ	0.0514	5.62	1
11031	123678-HxCDD	57653-85-7	0.663	JB	0.0508	5.62	1
11031	123789-HxCDD	19408-74-3	0.507	JB	0.0468	5.62	1
11031	1234678-HpCDD	35822-46-9	8.04	B	0.0456	5.62	1
11031	OCDD	3268-87-9	63.3	B	0.0423	11.2	1
11031	2378-TCDF	51207-31-9	0.600	JB	0.170	1.12	1
11031	12378-PeCDF	57117-41-6	1.89	JB	0.0512	5.62	1
11031	23478-PeCDF	57117-31-4	0.475	JB	0.0531	5.62	1
11031	123478-HxCDF	70648-26-9	1.09	JB	0.0693	5.62	1
11031	123678-HxCDF	57117-44-9	0.290	JB	0.0491	5.62	1
11031	123789-HxCDF	72918-21-9	0.297	JB	0.0450	5.62	1
11031	234678-HxCDF	60851-34-5	0.251	JB	0.0388	5.62	1
11031	1234678-HpCDF	67562-39-4	2.19	JB	0.0355	5.62	1
11031	1234789-HpCDF	55673-89-7	0.190	JBQ	0.0382	5.62	1
11031	OCDF	39001-02-0	5.05	JB	0.0357	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256881
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6901 SDG#: DX069-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256881
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6901 SDG#: DX069-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/18/2011 13:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256882
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6902 SDG#: DX069-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256882
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6902 SDG#: DX069-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0413	JBQ	0.0349	1.14	1
11031	12378-PeCDD	40321-76-4	0.158	JBQ	0.0489	5.71	1
11031	123478-HxCDD	39227-28-6	0.120	JBQ	0.0428	5.71	1
11031	123678-HxCDD	57653-85-7	0.349	JB	0.0421	5.71	1
11031	123789-HxCDD	19408-74-3	0.405	JB	0.0385	5.71	1
11031	1234678-HpCDD	35822-46-9	5.02	JB	0.0745	5.71	1
11031	OCDD	3268-87-9	38.0	B	0.101	11.4	1
11031	2378-TCDF	51207-31-9	0.229	JBQ	0.190	1.14	1
11031	12378-PeCDF	57117-41-6	1.83	JB	0.0687	5.71	1
11031	23478-PeCDF	57117-31-4	0.537	JB	0.0667	5.71	1
11031	123478-HxCDF	70648-26-9	0.818	JB	0.0685	5.71	1
11031	123678-HxCDF	57117-44-9	0.233	JBQ	0.0498	5.71	1
11031	123789-HxCDF	72918-21-9	0.336	JBQ	0.0454	5.71	1
11031	234678-HxCDF	60851-34-5	0.230	JB	0.0393	5.71	1
11031	1234678-HpCDF	67562-39-4	1.65	JB	0.0606	5.71	1
11031	1234789-HpCDF	55673-89-7	0.149	JBQ	0.0635	5.71	1
11031	OCDF	39001-02-0	6.95	JB	0.0791	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256882
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6902 SDG#: DX069-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256882
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6902 SDG#: DX069-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/18/2011 14:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256883
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6903 SDG#: DX069-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256883
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6903 SDG#: DX069-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0201	U	0.0201	1.13	1
11031	12378-PeCDD	40321-76-4	0.264	JBQ	0.0585	5.64	1
11031	123478-HxCDD	39227-28-6	0.277	JBQ	0.0786	5.64	1
11031	123678-HxCDD	57653-85-7	1.75	JB	0.0749	5.64	1
11031	123789-HxCDD	19408-74-3	0.986	JB	0.0659	5.64	1
11031	1234678-HpCDD	35822-46-9	18.2	B	0.0578	5.64	1
11031	OCDD	3268-87-9	165	B	0.0535	11.3	1
11031	2378-TCDF	51207-31-9	3.76	B	0.409	1.13	1
11650	2378-TCDF-Conf	51207-31-9	1.69	B	0.101	1.13	1
11031	12378-PeCDF	57117-41-6	11.5	B	0.0934	5.64	1
11031	23478-PeCDF	57117-31-4	1.62	JBQ	0.0931	5.64	1
11031	123478-HxCDF	70648-26-9	3.60	JB	0.129	5.64	1
11031	123678-HxCDF	57117-44-9	0.904	JB	0.0952	5.64	1
11031	123789-HxCDF	72918-21-9	0.567	JBQ	0.0794	5.64	1
11031	234678-HxCDF	60851-34-5	0.648	JB	0.0728	5.64	1
11031	1234678-HpCDF	67562-39-4	5.02	JB	0.0323	5.64	1
11031	1234789-HpCDF	55673-89-7	0.455	JB	0.0345	5.64	1
11031	OCDF	39001-02-0	13.9	B	0.0389	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-2378-TCDF-Conf	64	24 - 169
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256883
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6903 SDG#: DX069-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-016-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256883
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6903 SDG#: DX069-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/18/2011 15:48	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11104001	04/22/2011 04:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256884
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6904 SDG#: DX069-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256884
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6904 SDG#: DX069-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0222	U	0.0222	1.15	1
11031	12378-PeCDD	40321-76-4	0.0676	JB	0.0319	5.77	1
11031	123478-HxCDD	39227-28-6	0.137	JBQ	0.0632	5.77	1
11031	123678-HxCDD	57653-85-7	0.687	JB	0.0592	5.77	1
11031	123789-HxCDD	19408-74-3	0.545	JB	0.0506	5.77	1
11031	1234678-HpCDD	35822-46-9	12.8	B	0.0631	5.77	1
11031	OCDD	3268-87-9	140	B	0.0923	11.5	1
11031	2378-TCDF	51207-31-9	0.913	JB	0.220	1.15	1
11031	12378-PeCDF	57117-41-6	2.32	JB	0.0683	5.77	1
11031	23478-PeCDF	57117-31-4	0.614	JB	0.0742	5.77	1
11031	123478-HxCDF	70648-26-9	1.16	JB	0.0921	5.77	1
11031	123678-HxCDF	57117-44-9	0.296	JBQ	0.0632	5.77	1
11031	123789-HxCDF	72918-21-9	0.262	JBQ	0.0537	5.77	1
11031	234678-HxCDF	60851-34-5	0.260	JB	0.0469	5.77	1
11031	1234678-HpCDF	67562-39-4	2.35	JB	0.0512	5.77	1
11031	1234789-HpCDF	55673-89-7	0.167	JB	0.0546	5.77	1
11031	OCDF	39001-02-0	6.40	JB	0.0482	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256884
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6904 SDG#: DX069-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-018-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256884
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6904 SDG#: DX069-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/18/2011 16:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256885
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6905 SDG#: DX069-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-019-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256885
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6905 SDG#: DX069-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0198	JB	0.0139	1.17	1
11031	12378-PeCDD	40321-76-4	0.167	JB	0.0324	5.85	1
11031	123478-HxCDD	39227-28-6	0.291	JB	0.0480	5.85	1
11031	123678-HxCDD	57653-85-7	1.22	JB	0.0440	5.85	1
11031	123789-HxCDD	19408-74-3	0.745	JB	0.0380	5.85	1
11031	1234678-HpCDD	35822-46-9	13.0	B	0.0410	5.85	1
11031	OCDD	3268-87-9	113	B	0.0557	11.7	1
11031	2378-TCDF	51207-31-9	2.08	B	0.220	1.17	1
11650	2378-TCDF-Conf	51207-31-9	1.04	JB	0.0744	1.17	1
11031	12378-PeCDF	57117-41-6	5.83	JB	0.0565	5.85	1
11031	23478-PeCDF	57117-31-4	1.09	JB	0.0603	5.85	1
11031	123478-HxCDF	70648-26-9	2.49	JB	0.104	5.85	1
11031	123678-HxCDF	57117-44-9	0.586	JB	0.0743	5.85	1
11031	123789-HxCDF	72918-21-9	0.361	JB	0.0547	5.85	1
11031	234678-HxCDF	60851-34-5	0.373	JB	0.0479	5.85	1
11031	1234678-HpCDF	67562-39-4	3.88	JB	0.0274	5.85	1
11031	1234789-HpCDF	55673-89-7	0.251	JB	0.0240	5.85	1
11031	OCDF	39001-02-0	12.1	B	0.0286	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-2378-TCDF-Conf	57	24 - 169
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	33	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	50	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-019-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256885
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6905 SDG#: DX069-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-019-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256885
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6905 SDG#: DX069-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/18/2011 17:41	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11104001	04/22/2011 05:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256886
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6906 SDG#: DX069-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256886
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6906 SDG#: DX069-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0303	JB	0.0296	1.15	1
11031	12378-PeCDD	40321-76-4	0.0970	JB	0.0631	5.73	1
11031	123478-HxCDD	39227-28-6	0.186	JB	0.101	5.73	1
11031	123678-HxCDD	57653-85-7	1.02	JB	0.0973	5.73	1
11031	123789-HxCDD	19408-74-3	0.646	JB	0.0872	5.73	1
11031	1234678-HpCDD	35822-46-9	12.9	B	0.0716	5.73	1
11031	OCDD	3268-87-9	109	B	0.114	11.5	1
11031	2378-TCDF	51207-31-9	2.03	B	0.380	1.15	1
11650	2378-TCDF-Conf	51207-31-9	1.22	B	0.354	1.15	1
11031	12378-PeCDF	57117-41-6	5.14	JB	0.121	5.73	1
11031	23478-PeCDF	57117-31-4	1.14	JB	0.114	5.73	1
11031	123478-HxCDF	70648-26-9	1.83	JB	0.111	5.73	1
11031	123678-HxCDF	57117-44-9	0.467	JB	0.0856	5.73	1
11031	123789-HxCDF	72918-21-9	0.296	JB	0.0916	5.73	1
11031	234678-HxCDF	60851-34-5	0.310	JB	0.0773	5.73	1
11031	1234678-HpCDF	67562-39-4	3.67	JB	0.0905	5.73	1
11031	1234789-HpCDF	55673-89-7	0.385	JBQ	0.122	5.73	1
11031	OCDF	39001-02-0	11.6	B	0.123	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-2378-TCDF-Conf	53	24 - 169
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	62	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256886
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6906 SDG#: DX069-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256886
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6906 SDG#: DX069-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/18/2011 18:37	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11104001	04/22/2011 06:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256887
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6907 SDG#: DX069-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256887
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6907 SDG#: DX069-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0276	U	0.0276	1.09	1
11031	12378-PeCDD	40321-76-4	0.139	JBQ	0.0482	5.44	1
11031	123478-HxCDD	39227-28-6	0.159	JB	0.0964	5.44	1
11031	123678-HxCDD	57653-85-7	0.829	JBQ	0.0899	5.44	1
11031	123789-HxCDD	19408-74-3	0.509	JB	0.0715	5.44	1
11031	1234678-HpCDD	35822-46-9	14.9	B	0.0831	5.44	1
11031	OCDD	3268-87-9	149	B	0.125	10.9	1
11031	2378-TCDF	51207-31-9	1.00	JB	0.254	1.09	1
11031	12378-PeCDF	57117-41-6	1.46	JB	0.0850	5.44	1
11031	23478-PeCDF	57117-31-4	0.564	JBQ	0.0867	5.44	1
11031	123478-HxCDF	70648-26-9	1.31	JBQ	0.120	5.44	1
11031	123678-HxCDF	57117-44-9	0.234	JBQ	0.0838	5.44	1
11031	123789-HxCDF	72918-21-9	0.305	JB	0.0554	5.44	1
11031	234678-HxCDF	60851-34-5	0.296	JB	0.0513	5.44	1
11031	1234678-HpCDF	67562-39-4	3.56	JB	0.122	5.44	1
11031	1234789-HpCDF	55673-89-7	0.258	JBQ	0.106	5.44	1
11031	OCDF	39001-02-0	11.5	B	0.119	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	54	32 - 141
13C12-123678-HxCDD	57	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	39	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	70	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256887
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6907 SDG#: DX069-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256887
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6907 SDG#: DX069-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/18/2011 19:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256888
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6908 SDG#: DX069-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256888
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6908 SDG#: DX069-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0389	JBQ	0.0302	1.15	1
11031	12378-PeCDD	40321-76-4	0.237	JBQ	0.0427	5.74	1
11031	123478-HxCDD	39227-28-6	0.369	JBQ	0.0987	5.74	1
11031	123678-HxCDD	57653-85-7	0.973	JB	0.0964	5.74	1
11031	123789-HxCDD	19408-74-3	0.775	JB	0.0905	5.74	1
11031	1234678-HpCDD	35822-46-9	18.6	B	0.0734	5.74	1
11031	OCDD	3268-87-9	225	B	0.110	11.5	1
11031	2378-TCDF	51207-31-9	1.32	B	0.261	1.15	1
11650	2378-TCDF-Conf	51207-31-9	0.530	JB	0.174	1.15	1
11031	12378-PeCDF	57117-41-6	2.59	JB	0.0899	5.74	1
11031	23478-PeCDF	57117-31-4	0.699	JB	0.0902	5.74	1
11031	123478-HxCDF	70648-26-9	1.72	JB	0.103	5.74	1
11031	123678-HxCDF	57117-44-9	0.390	JBQ	0.0758	5.74	1
11031	123789-HxCDF	72918-21-9	0.350	JB	0.0696	5.74	1
11031	234678-HxCDF	60851-34-5	0.365	JB	0.0614	5.74	1
11031	1234678-HpCDF	67562-39-4	5.13	JB	0.0721	5.74	1
11031	1234789-HpCDF	55673-89-7	0.412	JBQ	0.0828	5.74	1
11031	OCDF	39001-02-0	15.7	B	0.0701	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-2378-TCDF-Conf	68	24 - 169
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256888
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6908 SDG#: DX069-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256888
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6908 SDG#: DX069-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/18/2011 20:30	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11104001	04/22/2011 07:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-023-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256889
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:10

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6909 SDG#: DX069-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-023-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256889
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:10

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6909 SDG#: DX069-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0760	JBQ	0.0230	1.16	1
11031	12378-PeCDD	40321-76-4	0.531	JB	0.0422	5.81	1
11031	123478-HxCDD	39227-28-6	0.916	JB	0.115	5.81	1
11031	123678-HxCDD	57653-85-7	3.07	JB	0.110	5.81	1
11031	123789-HxCDD	19408-74-3	1.82	JB	0.0961	5.81	1
11031	1234678-HpCDD	35822-46-9	74.2	B	0.111	5.81	1
11031	OCDD	3268-87-9	681	B	0.0977	11.6	1
11031	2378-TCDF	51207-31-9	0.797	JB	0.152	1.16	1
11031	12378-PeCDF	57117-41-6	1.05	JB	0.0531	5.81	1
11031	23478-PeCDF	57117-31-4	0.815	JB	0.0609	5.81	1
11031	123478-HxCDF	70648-26-9	1.25	JB	0.0837	5.81	1
11031	123678-HxCDF	57117-44-9	0.723	JB	0.0672	5.81	1
11031	123789-HxCDF	72918-21-9	0.553	JB	0.0609	5.81	1
11031	234678-HxCDF	60851-34-5	0.911	JB	0.0566	5.81	1
11031	1234678-HpCDF	67562-39-4	9.37	B	0.0739	5.81	1
11031	1234789-HpCDF	55673-89-7	0.647	JB	0.0727	5.81	1
11031	OCDF	39001-02-0	19.7	B	0.0656	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-023-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256889
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:10

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6909 SDG#: DX069-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-023-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256889
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:10

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6909 SDG#: DX069-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/19/2011 00:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-036-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256890
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X6910 SDG#: DX069-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256890
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X6910 SDG#: DX069-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0397	J	0.0190	1.19	1
11031	12378-PeCDD	40321-76-4	0.179	JB	0.0302	5.93	1
11031	123478-HxCDD	39227-28-6	0.226	JB	0.0596	5.93	1
11031	123678-HxCDD	57653-85-7	0.739	JB	0.0617	5.93	1
11031	123789-HxCDD	19408-74-3	0.480	JB	0.0577	5.93	1
11031	1234678-HpCDD	35822-46-9	12.8	B	0.0556	5.93	1
11031	OCDD	3268-87-9	111	B	0.0577	11.9	1
11031	2378-TCDF	51207-31-9	0.316	J	0.0596	1.19	1
11031	12378-PeCDF	57117-41-6	0.162	JB	0.0282	5.93	1
11031	23478-PeCDF	57117-31-4	0.475	JB	0.0297	5.93	1
11031	123478-HxCDF	70648-26-9	0.418	JB	0.0449	5.93	1
11031	123678-HxCDF	57117-44-9	0.212	JB	0.0394	5.93	1
11031	123789-HxCDF	72918-21-9	0.281	JBQ	0.0464	5.93	1
11031	234678-HxCDF	60851-34-5	0.339	JB	0.0388	5.93	1
11031	1234678-HpCDF	67562-39-4	2.64	JB	0.0243	5.93	1
11031	1234789-HpCDF	55673-89-7	0.174	JB	0.0397	5.93	1
11031	OCDF	39001-02-0	5.47	JB	0.0386	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256890
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6910 SDG#: DX069-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256890
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6910 SDG#: DX069-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118003	05/03/2011 07:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118003	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-047-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256891
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6911 SDG#: DX069-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-047-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256891
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6911 SDG#: DX069-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0152	U	0.0152	1.17	1
11031	12378-PeCDD	40321-76-4	0.101	JBQ	0.0276	5.83	1
11031	123478-HxCDD	39227-28-6	0.151	JB	0.0564	5.83	1
11031	123678-HxCDD	57653-85-7	0.485	JB	0.0584	5.83	1
11031	123789-HxCDD	19408-74-3	0.374	JB	0.0555	5.83	1
11031	1234678-HpCDD	35822-46-9	14.5	B	0.0566	5.83	1
11031	OCDD	3268-87-9	132	B	0.0377	11.7	1
11031	2378-TCDF	51207-31-9	0.658	J	0.108	1.17	1
11031	12378-PeCDF	57117-41-6	0.145	JB	0.0433	5.83	1
11031	23478-PeCDF	57117-31-4	0.552	JB	0.0455	5.83	1
11031	123478-HxCDF	70648-26-9	1.04	JB	0.0487	5.83	1
11031	123678-HxCDF	57117-44-9	0.167	JB	0.0417	5.83	1
11031	123789-HxCDF	72918-21-9	0.246	JB	0.0474	5.83	1
11031	234678-HxCDF	60851-34-5	0.221	JB	0.0427	5.83	1
11031	1234678-HpCDF	67562-39-4	2.85	JB	0.0216	5.83	1
11031	1234789-HpCDF	55673-89-7	0.154	JB	0.0308	5.83	1
11031	OCDF	39001-02-0	10.2	JB	0.0377	11.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	89	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-047-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256891
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6911 SDG#: DX069-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-047-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256891
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6911 SDG#: DX069-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118003	05/03/2011 08:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118003	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256892
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6912 SDG#: DX069-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	21.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256892
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6912 SDG#: DX069-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0160	U	0.0160	1.26	1
11031	12378-PeCDD	40321-76-4	0.0929	JB	0.0239	6.29	1
11031	123478-HxCDD	39227-28-6	0.0971	JB	0.0335	6.29	1
11031	123678-HxCDD	57653-85-7	0.351	JB	0.0333	6.29	1
11031	123789-HxCDD	19408-74-3	0.370	JB	0.0316	6.29	1
11031	1234678-HpCDD	35822-46-9	4.14	JB	0.0407	6.29	1
11031	OCDD	3268-87-9	42.0	B	0.0368	12.6	1
11031	2378-TCDF	51207-31-9	0.669	J	0.0868	1.26	1
11031	12378-PeCDF	57117-41-6	0.378	JB	0.0344	6.29	1
11031	23478-PeCDF	57117-31-4	0.431	JB	0.0363	6.29	1
11031	123478-HxCDF	70648-26-9	0.718	JB	0.0483	6.29	1
11031	123678-HxCDF	57117-44-9	0.140	JBQ	0.0408	6.29	1
11031	123789-HxCDF	72918-21-9	0.230	JBQ	0.0339	6.29	1
11031	234678-HxCDF	60851-34-5	0.209	JB	0.0299	6.29	1
11031	1234678-HpCDF	67562-39-4	1.77	JB	0.0263	6.29	1
11031	1234789-HpCDF	55673-89-7	0.127	JB	0.0300	6.29	1
11031	OCDF	39001-02-0	7.83	JB	0.0435	12.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256892
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6912 SDG#: DX069-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-048-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256892
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6912 SDG#: DX069-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118003	05/03/2011 09:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118003	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256893
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6913 SDG#: DX069-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	18.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256893
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6913 SDG#: DX069-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0181	U	0.0181	1.17	1
11031	12378-PeCDD	40321-76-4	0.0624	JB	0.0210	5.84	1
11031	123478-HxCDD	39227-28-6	0.118	JBQ	0.0366	5.84	1
11031	123678-HxCDD	57653-85-7	0.391	JBQ	0.0376	5.84	1
11031	123789-HxCDD	19408-74-3	0.329	JBQ	0.0333	5.84	1
11031	1234678-HpCDD	35822-46-9	6.63	B	0.0479	5.84	1
11031	OCDD	3268-87-9	56.0	B	0.0495	11.7	1
11031	2378-TCDF	51207-31-9	0.499	JB	0.104	1.17	1
11031	12378-PeCDF	57117-41-6	0.727	JBQ	0.0403	5.84	1
11031	23478-PeCDF	57117-31-4	0.404	JB	0.0401	5.84	1
11031	123478-HxCDF	70648-26-9	0.684	JB	0.0480	5.84	1
11031	123678-HxCDF	57117-44-9	0.142	JBQ	0.0348	5.84	1
11031	123789-HxCDF	72918-21-9	0.135	JBQ	0.0377	5.84	1
11031	234678-HxCDF	60851-34-5	0.160	JB	0.0310	5.84	1
11031	1234678-HpCDF	67562-39-4	1.83	JB	0.0335	5.84	1
11031	1234789-HpCDF	55673-89-7	0.113	JB	0.0437	5.84	1
11031	OCDF	39001-02-0	6.61	JB	0.0483	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256893
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6913 SDG#: DX069-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256893
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6913 SDG#: DX069-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/19/2011 04:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-131-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256894
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6914 SDG#: DX069-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-131-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256894
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X6914 SDG#: DX069-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0516	JBQ	0.0351	1.14	1
11031	12378-PeCDD	40321-76-4	0.0569	U	0.0569	5.70	1
11031	123478-HxCDD	39227-28-6	0.885	JB	0.165	5.70	1
11031	123678-HxCDD	57653-85-7	2.92	JB	0.173	5.70	1
11031	123789-HxCDD	19408-74-3	1.85	JB	0.159	5.70	1
11031	1234678-HpCDD	35822-46-9	70.9	B	0.160	5.70	1
11031	OCDD	3268-87-9	600	B	0.121	11.4	1
11031	2378-TCDF	51207-31-9	0.442	JB	0.277	1.14	1
11031	12378-PeCDF	57117-41-6	1.66	JB	0.111	5.70	1
11031	23478-PeCDF	57117-31-4	1.27	JB	0.0994	5.70	1
11031	123478-HxCDF	70648-26-9	1.61	JB	0.110	5.70	1
11031	123678-HxCDF	57117-44-9	0.619	JBQ	0.0918	5.70	1
11031	123789-HxCDF	72918-21-9	0.609	JB	0.0934	5.70	1
11031	234678-HxCDF	60851-34-5	0.697	JB	0.0820	5.70	1
11031	1234678-HpCDF	67562-39-4	6.89	B	0.0720	5.70	1
11031	1234789-HpCDF	55673-89-7	0.503	JB	0.0737	5.70	1
11031	OCDF	39001-02-0	13.2	B	0.0761	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-131-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256894
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6914 SDG#: DX069-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-131-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256894
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6914 SDG#: DX069-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/19/2011 05:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB01-SA8N-SS-041211 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA8N-SS-041211

LLI Sample # WW 6256895
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 16:00

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6915 SDG#: DX069-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.189	U	0.189	2.09	1
10915	12378-PeCDD	40321-76-4	0.642	JBQ	0.205	10.4	1
10915	123478-HxCDD	39227-28-6	0.435	JBQ	0.197	10.4	1
10915	123678-HxCDD	57653-85-7	1.11	JBQ	0.200	10.4	1
10915	123789-HxCDD	19408-74-3	0.886	JBQ	0.189	10.4	1
10915	1234678-HpCDD	35822-46-9	5.67	JB	0.347	10.4	1
10915	OCDD	3268-87-9	15.2	JB	0.502	20.9	1
10915	2378-TCDF	51207-31-9	0.177	JBQ	0.139	2.09	1
10915	12378-PeCDF	57117-41-6	0.532	JBQ	0.119	10.4	1
10915	23478-PeCDF	57117-31-4	1.11	JB	0.114	10.4	1
10915	123478-HxCDF	70648-26-9	1.66	JB	0.212	10.4	1
10915	123678-HxCDF	57117-44-9	0.970	JBQ	0.190	10.4	1
10915	123789-HxCDF	72918-21-9	1.84	JBQ	0.188	10.4	1
10915	234678-HxCDF	60851-34-5	1.46	JB	0.163	10.4	1
10915	1234678-HpCDF	67562-39-4	3.88	JB	0.187	10.4	1
10915	1234789-HpCDF	55673-89-7	2.09	JBQ	0.217	10.4	1
10915	OCDF	39001-02-0	4.49	JBQ	0.384	20.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	50	25 - 164
13C12-12378-PeCDD	43	25 - 181
13C12-123478-HxCDD	42	32 - 141
13C12-123678-HxCDD	41	28 - 130
13C12-123789-HxCDD	42	28 - 130
13C12-1234678-HpCDD	38	23 - 140
13C12-OCDD	32	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	42	24 - 185
13C12-23478-PeCDF	43	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	43	28 - 136
13C12-123789-HxCDF	43	29 - 147
13C12-1234678-HpCDF	36	28 - 143
13C12-1234789-HpCDF	36	26 - 138
13C12-OCDF	32	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB01-SA8N-SS-041211 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA8N-SS-041211

LLI Sample # WW 6256895
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 16:00

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6915 SDG#: DX069-15EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108003	04/24/2011 12:56	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11108003	04/19/2011 05:35	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-202-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256896
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6916 SDG#: DX069-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-202-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256896
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6916 SDG#: DX069-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0135 U	0.0135	1.16	1
11031	12378-PeCDD	40321-76-4	0.0427 JBQ	0.0157	5.81	1
11031	123478-HxCDD	39227-28-6	0.0500 JBQ	0.0236	5.81	1
11031	123678-HxCDD	57653-85-7	0.171 JBQ	0.0228	5.81	1
11031	123789-HxCDD	19408-74-3	0.300 JB	0.0208	5.81	1
11031	1234678-HpCDD	35822-46-9	2.98 JB	0.0499	5.81	1
11031	OCDD	3268-87-9	20.5 B	0.0338	11.6	1
11031	2378-TCDF	51207-31-9	0.0127 U	0.0127	1.16	1
11031	12378-PeCDF	57117-41-6	0.0243 JBQ	0.00815	5.81	1
11031	23478-PeCDF	57117-31-4	0.0539 JB	0.00780	5.81	1
11031	123478-HxCDF	70648-26-9	0.0390 JBQ	0.0159	5.81	1
11031	123678-HxCDF	57117-44-9	0.0420 JBQ	0.0115	5.81	1
11031	123789-HxCDF	72918-21-9	0.0378 JB	0.0101	5.81	1
11031	234678-HxCDF	60851-34-5	0.0269 JBQ	0.00873	5.81	1
11031	1234678-HpCDF	67562-39-4	0.307 JBQ	0.0180	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0274 JBQ	0.0199	5.81	1
11031	OCDF	39001-02-0	0.351 JB	0.0335	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-202-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256896
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6916 SDG#: DX069-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-202-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256896
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6916 SDG#: DX069-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/19/2011 06:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-206-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256897
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6917 SDG#: DX069-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-206-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256897
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6917 SDG#: DX069-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0142 U	0.0142	1.15	1
11031	12378-PeCDD	40321-76-4	0.0321 JBQ	0.0137	5.73	1
11031	123478-HxCDD	39227-28-6	0.0117 U	0.0117	5.73	1
11031	123678-HxCDD	57653-85-7	0.0258 JBQ	0.0118	5.73	1
11031	123789-HxCDD	19408-74-3	0.0581 JBQ	0.0107	5.73	1
11031	1234678-HpCDD	35822-46-9	0.272 JB	0.0167	5.73	1
11031	OCDD	3268-87-9	0.870 JB	0.0298	11.5	1
11031	2378-TCDF	51207-31-9	0.0183 JBQ	0.0103	1.15	1
11031	12378-PeCDF	57117-41-6	0.0481 JB	0.00664	5.73	1
11031	23478-PeCDF	57117-31-4	0.0489 JBQ	0.00722	5.73	1
11031	123478-HxCDF	70648-26-9	0.0371 JB	0.0113	5.73	1
11031	123678-HxCDF	57117-44-9	0.0197 JBQ	0.00813	5.73	1
11031	123789-HxCDF	72918-21-9	0.0388 JB	0.00905	5.73	1
11031	234678-HxCDF	60851-34-5	0.0197 JBQ	0.00756	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0725 JB	0.00745	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0183 JB	0.0124	5.73	1
11031	OCDF	39001-02-0	0.165 JB	0.0267	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-206-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256897
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6917 SDG#: DX069-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-206-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256897
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6917 SDG#: DX069-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/19/2011 07:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-207-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256898
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6918 SDG#: DX069-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-207-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256898
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6918 SDG#: DX069-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0332 JB	0.0157	1.06	1
11031	12378-PeCDD	40321-76-4	0.0993 JBQ	0.0147	5.31	1
11031	123478-HxCDD	39227-28-6	0.0143 U	0.0143	5.31	1
11031	123678-HxCDD	57653-85-7	0.0384 JB	0.0139	5.31	1
11031	123789-HxCDD	19408-74-3	0.0761 JBQ	0.0128	5.31	1
11031	1234678-HpCDD	35822-46-9	0.230 JBQ	0.0199	5.31	1
11031	OCDD	3268-87-9	0.624 JB	0.0293	10.6	1
11031	2378-TCDF	51207-31-9	0.0194 JBQ	0.0125	1.06	1
11031	12378-PeCDF	57117-41-6	0.106 JB	0.00812	5.31	1
11031	23478-PeCDF	57117-31-4	0.0907 JBQ	0.00856	5.31	1
11031	123478-HxCDF	70648-26-9	0.0382 JBQ	0.0135	5.31	1
11031	123678-HxCDF	57117-44-9	0.0521 JBQ	0.00988	5.31	1
11031	123789-HxCDF	72918-21-9	0.0435 JBQ	0.00977	5.31	1
11031	234678-HxCDF	60851-34-5	0.0257 JB	0.00834	5.31	1
11031	1234678-HpCDF	67562-39-4	0.0278 JBQ	0.00801	5.31	1
11031	1234789-HpCDF	55673-89-7	0.0146 JBQ	0.0104	5.31	1
11031	OCDF	39001-02-0	0.0867 JB	0.0229	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	93	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	97	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	103	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-207-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256898
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6918 SDG#: DX069-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-207-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256898
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6918 SDG#: DX069-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/19/2011 08:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-227-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256899
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6919 SDG#: DX069-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-227-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256899
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6919 SDG#: DX069-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0193 U	0.0193	1.14	1
11031	12378-PeCDD	40321-76-4	0.0216 JBQ	0.0186	5.72	1
11031	123478-HxCDD	39227-28-6	0.0145 U	0.0145	5.72	1
11031	123678-HxCDD	57653-85-7	0.0199 JBQ	0.0145	5.72	1
11031	123789-HxCDD	19408-74-3	0.0208 JBQ	0.0141	5.72	1
11031	1234678-HpCDD	35822-46-9	0.552 JBQ	0.0293	5.72	1
11031	OCDD	3268-87-9	3.57 JB	0.0518	11.4	1
11031	2378-TCDF	51207-31-9	0.0168 U	0.0168	1.14	1
11031	12378-PeCDF	57117-41-6	0.0406 JBQ	0.0109	5.72	1
11031	23478-PeCDF	57117-31-4	0.0408 JBQ	0.0110	5.72	1
11031	123478-HxCDF	70648-26-9	0.0274 JBQ	0.0142	5.72	1
11031	123678-HxCDF	57117-44-9	0.0212 JBQ	0.0104	5.72	1
11031	123789-HxCDF	72918-21-9	0.0142 JBQ	0.0125	5.72	1
11031	234678-HxCDF	60851-34-5	0.0180 JBQ	0.0102	5.72	1
11031	1234678-HpCDF	67562-39-4	0.0511 JB	0.0109	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0311 JBQ	0.0153	5.72	1
11031	OCDF	39001-02-0	0.121 JB	0.0281	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-227-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256899
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6919 SDG#: DX069-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-227-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256899
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6919 SDG#: DX069-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/19/2011 08:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-228-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256900
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6920 SDG#: DX069-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-228-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256900
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6920 SDG#: DX069-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0219 JBQ	0.0147	1.14	1
11031	12378-PeCDD	40321-76-4	0.0355 JBQ	0.0170	5.68	1
11031	123478-HxCDD	39227-28-6	0.0384 JBQ	0.0187	5.68	1
11031	123678-HxCDD	57653-85-7	0.109 JB	0.0187	5.68	1
11031	123789-HxCDD	19408-74-3	0.106 JB	0.0171	5.68	1
11031	1234678-HpCDD	35822-46-9	2.10 JB	0.0428	5.68	1
11031	OCDD	3268-87-9	16.5 B	0.0355	11.4	1
11031	2378-TCDF	51207-31-9	0.0199 U	0.0199	1.14	1
11031	12378-PeCDF	57117-41-6	0.121 JB	0.0156	5.68	1
11031	23478-PeCDF	57117-31-4	0.0665 JBQ	0.0156	5.68	1
11031	123478-HxCDF	70648-26-9	0.268 JB	0.0221	5.68	1
11031	123678-HxCDF	57117-44-9	0.0558 JBQ	0.0161	5.68	1
11031	123789-HxCDF	72918-21-9	0.0593 JBQ	0.0170	5.68	1
11031	234678-HxCDF	60851-34-5	0.0487 JB	0.0146	5.68	1
11031	1234678-HpCDF	67562-39-4	0.452 JB	0.0202	5.68	1
11031	1234789-HpCDF	55673-89-7	0.0985 JB	0.0259	5.68	1
11031	OCDF	39001-02-0	2.20 JB	0.0366	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	89	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-228-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256900
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6920 SDG#: DX069-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-228-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256900
LLI Group # 1241929
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/09/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6920 SDG#: DX069-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11104001	04/19/2011 12:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11104001	04/14/2011 12:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241929
Reported: 05/09/11 at 09:15 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11111162401A	Sample number(s): 6256882-6256884,6256889-6256890,6256892-6256894,6256896-6256900								
Moisture Content by 160.3					99		80-120		
Batch number: 11124162401A	Sample number(s): 6256888								
Moisture Content by 160.3					100		80-120		
Batch number: 11126162401B	Sample number(s): 6256881,6256885-6256887,6256891								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11104001	Sample number(s): 6256881-6256889,6256893-6256894,6256896-6256900								
2378-TCDD	0.0224 J	0.0145	1.00	ng/kg	87		67-158		
12378-PeCDD	0.0215 J	0.0147	5.00	ng/kg	83		70-142		
123478-HxCDD	0.0164 J	0.0133	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0350 J	0.0134	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0407 J	0.0127	5.00	ng/kg	92		64-162		
1234678-HpCDD	0.283 J	0.0195	5.00	ng/kg	92		70-140		
OCDD	0.584 J	0.0230	10.0	ng/kg	93		78-144		
2378-TCDF	0.0259 J	0.0123	1.00	ng/kg	104		75-158		
2378-TCDF-Conf	0.0903 J	0.0413	1.00	ng/kg					
12378-PeCDF	0.0278 J	0.00780	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0682 J	0.00820	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0381 J	0.0121	5.00	ng/kg	95		72-134		
123678-HxCDF	0.0395 J	0.00880	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0772 J	0.0110	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0547 J	0.00910	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.142 J	0.00800	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0718 J	0.0127	5.00	ng/kg	94		78-138		
OCDF	0.198 J	0.0214	10.0	ng/kg	94		63-170		
Batch number: 11108003	Sample number(s): 6256895								
2378-TCDD	0.264 J	0.145	2.00	pg/l	89		67-158		
12378-PeCDD	0.899 J	0.168	10.0	pg/l	94		70-142		
123478-HxCDD	1.28 J	0.177	10.0	pg/l	99		70-164		
123678-HxCDD	1.08 J	0.182	10.0	pg/l	98		76-134		
123789-HxCDD	1.65 J	0.172	10.0	pg/l	97		64-162		
1234678-HpCDD	7.94 J	0.329	10.0	pg/l	98		70-140		
OCDD	47.4	0.357	20.0	pg/l	102		78-144		
2378-TCDF	0.147 J	0.0934	2.00	pg/l	101		75-158		
12378-PeCDF	0.844 J	0.0873	10.0	pg/l	97		80-134		
23478-PeCDF	1.28 J	0.0793	10.0	pg/l	99		68-160		
123478-HxCDF	1.50 J	0.177	10.0	pg/l	101		72-134		
123678-HxCDF	1.21 J	0.159	10.0	pg/l	101		84-130		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241929
Reported: 05/09/11 at 09:15 AM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
123789-HxCDF	1.98	J	0.172	10.0	pg/l	98		78-130		
234678-HxCDF	1.71	J	0.142	10.0	pg/l	102		70-156		
1234678-HpCDF	4.55	J	0.153	10.0	pg/l	102		82-122		
1234789-HpCDF	2.38	J	0.191	10.0	pg/l	100		78-138		
OCDF	6.44	J	0.332	20.0	pg/l	103		63-170		
Batch number: 11118003	Sample number(s): 6256890-6256892									
2378-TCDD	0.0138	U	0.0138	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0182	J	0.0131	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0208	J	0.0148	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0353	J	0.0154	5.00	ng/kg	103		76-134		
123789-HxCDD	0.0254	J	0.0139	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.221	J	0.0206	5.00	ng/kg	102		70-140		
OCDD	0.477	J	0.0203	10.0	ng/kg	101		78-144		
2378-TCDF	0.0115	U	0.0115	1.00	ng/kg	105		75-158		
12378-PeCDF	0.0263	J	0.00660	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0537	J	0.00690	5.00	ng/kg	101		68-160		
123478-HxCDF	0.0521	J	0.0131	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0335	J	0.0101	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0904	J	0.0137	5.00	ng/kg	101		78-130		
234678-HxCDF	0.0685	J	0.0104	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.104	J	0.00860	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.0661	J	0.0182	5.00	ng/kg	104		78-138		
OCDF	0.210	J	0.0307	10.0	ng/kg	106		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11111162401A	Sample number(s): 6256882-6256884,6256889-6256890,6256892-6256894,6256896-6256900 BKG: P256874								
Moisture Content by 160.3						14.1	13.4	5	20
Batch number: 11124162401A	Sample number(s): 6256888 BKG: P261697								
Moisture Content by 160.3						17.6	20.0	13	20
Batch number: 11126162401B	Sample number(s): 6256881,6256885-6256887,6256891 BKG: P257885								
Moisture Content by 160.3						11.5	11.9	4	20
Batch number: 11118003	Sample number(s): 6256890-6256892 UNSPK: P257896								
2378-TCDD	97	96	67-158	1	25				
12378-PeCDD	102	101	70-142	1	25				
123478-HxCDD	105	102	70-164	1	25				
123678-HxCDD	101	100	76-134	2	25				
123789-HxCDD	101	100	64-162	2	25				
1234678-HpCDD	85	74	70-140	5	25				
OCDD	43*	-3*	78-144	11	25				
2378-TCDF	102	102	75-158	2	25				
12378-PeCDF	101	99	80-134	0	25				
23478-PeCDF	100	99	68-160	3	25				
123478-HxCDF	103	101	72-134	0	25				
123678-HxCDF	102	98	84-130	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241929
Reported: 05/09/11 at 09:15 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
123789-HxCDF	100	98	78-130	1	25				
234678-HxCDF	101	102	70-156	4	25				
1234678-HpCDF	92	88	82-122	2	25				
1234789-HpCDF	101	99	78-138	1	25				
OCDF	89	83	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11104001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6256881	84	74	43	58	75	74
6256882	79	74	44	59	75	73
6256883	83	72	42	55	73	74
6256884	83	70	37	53	71	72
6256885	78	66	33	46	70	70
6256886	68	61	43	54	62	59
6256887	72	60	28	39	63	66
6256888	80	72	46	62	76	74
6256889	79	61	46	57	66	68
6256893	79	71	48	63	73	67
6256894	69	65	53	60	71	70
6256896	81	76	46	60	77	73
6256897	78	68	49	66	68	62
6256898	93	83	60	77	87	85
6256899	76	68	51	67	70	66
6256900	89	79	56	74	83	81
Blank	87	75	67	83	79	74
OPR	77	62	52	69	66	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6256881	63	71	65	92	82	73
6256882	63	69	62	84	80	72
6256883	60	68	61	86	81	67
6256884	60	67	59	87	83	67
6256885	50	65	58	84	76	63
6256886	62	54	48	74	67	62
6256887	42	57	48	70	68	54
6256888	67	68	62	88	79	76
6256889	59	66	62	84	73	67
6256893	70	62	55	84	78	73
6256894	60	67	65	75	67	70

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241929
Reported: 05/09/11 at 09:15 AM

Surrogate Quality Control

6256896	66	69	62	87	83	77
6256897	80	56	49	85	79	73
6256898	85	78	72	103	94	91
6256899	76	63	60	83	76	77
6256900	79	74	65	96	88	84
Blank	94	70	66	97	86	88
OPR	77	62	56	87	73	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6256881	77	80	79	75	77	83
6256882	77	80	74	70	73	78
6256883	73	80	76	72	75	81
6256884	75	83	77	74	71	83
6256885	71	78	76	72	70	76
6256886	64	69	65	62	61	65
6256887	57	71	63	62	66	67
6256888	80	84	81	77	75	78
6256889	69	76	72	71	67	74
6256893	74	80	74	71	72	76
6256894	69	74	70	68	65	62
6256896	78	82	78	74	76	80
6256897	74	79	75	71	67	78
6256898	91	97	91	86	83	90
6256899	78	78	75	73	68	74
6256900	88	92	85	78	82	88
Blank	86	88	86	81	74	85
OPR	76	77	74	69	62	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6256881	
6256882	
6256883	64
6256884	
6256885	57
6256886	53
6256887	
6256888	68
6256889	
6256893	
6256894	
6256896	
6256897	
6256898	
6256899	
6256900	
Blank	79
OPR	
Limits:	24-169

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11108003

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241929
Reported: 05/09/11 at 09:15 AM

Surrogate Quality Control

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6256895	50	43	35	38	43	43
Blank	63	57	50	55	59	56
OPR	76	73	67	72	77	77
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6256895	36	36	32	78	43	42
Blank	50	49	43	92	57	56
OPR	68	69	62	84	75	74
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6256895	41	42	38	32	50	42
Blank	56	56	49	43	63	56
OPR	75	75	69	61	74	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11118003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6256890	75	70	63	71	69	65
6256891	89	88	78	86	87	84
6256892	80	79	52	61	82	79
Blank	71	70	61	73	72	62
MS	77	77	60	65	76	72
MSD	73	70	61	70	69	71
OPR	67	69	64	69	71	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6256890	85	63	57	83	75	74
6256891	104	83	75	96	93	91
6256892	77	77	71	90	82	88
Blank	100	58	50	86	77	80
MS	76	70	64	83	80	78
MSD	82	65	60	82	75	76
OPR	76	72	69	83	74	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6256890	72	75	77	78	71	78
6256891	94	94	96	95	85	99
6256892	86	89	86	85	79	88

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241929
Reported: 05/09/11 at 09:15 AM

Surrogate Quality Control

Blank	78	83	85	85	64	79
MS	79	78	76	73	74	85
MSD	73	75	76	75	69	76
OPR	75	77	79	79	62	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1241929 sample# 6256881-900

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tephenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-012-SA8N-SS-0.0-0.5	04.12.11	1035	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-012-SA8N-SS-0.0-0.5	04.12.11	1035	SOIL	NONE	1 SS sleeve			X	X															
SL-015-SA8N-SS-0.0-0.5	04.12.11	0935	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X									X		
SL-015-SA8N-SS-0.0-0.5	04.12.11	0935	SOIL	NONE	1 SS sleeve			X	X															
SL-016-SA8N-SS-0.0-0.5	04.12.11	0915	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X								X		
SL-016-SA8N-SS-0.0-0.5	04.12.11	0915	SOIL	NONE	1 SS sleeve			X	X															
SL-018-SA8N-SS-0.0-0.5	04.12.11	0900	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-018-SA8N-SS-0.0-0.5	04.12.11	0900	SOIL	NONE	1 SS sleeve			X	X															
SL-019-SA8N-SS-0.0-0.5	04.12.11	1105	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-019-SA8N-SS-0.0-0.5	04.12.11	1105	SOIL	NONE	1 SS sleeve			X	X															
SL-020-SA8N-SS-0.0-0.5	04.12.11	1125	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-020-SA8N-SS-0.0-0.5	04.12.11	1125	SOIL	NONE	1 SS sleeve			X	X															
SL-021-SA8N-SS-0.0-0.5	04.12.11	1315	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-021-SA8N-SS-0.0-0.5	04.12.11	1315	SOIL	NONE	1 SS sleeve			X	X															
SL-022-SA8N-SS-0.0-0.5	04.12.11	1350	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-022-SA8N-SS-0.0-0.5	04.12.11	1350	SOIL	NONE	1 SS sleeve			X	X															
SL-023-SA8N-SS-0.0-0.5	04.12.11	1410	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-023-SA8N-SS-0.0-0.5	04.12.11	1410	SOIL	NONE	1 SS sleeve			X	X															
SL-036-SA8N-SS-0.0-0.5	04.12.11	1425	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-036-SA8N-SS-0.0-0.5	04.12.11	1425	SOIL	NONE	1 SS sleeve			X	X															
SL-047-SA8N-SS-0.0-0.5	04.12.11	1330	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-047-SA8N-SS-0.0-0.5	04.12.11	1330	SOIL	NONE	1 SS sleeve			X	X															
SL-048-SA8N-SS-0.0-0.5	04.12.11	1015	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X									X		
SL-048-SA8N-SS-0.0-0.5	04.12.11	1015	SOIL	NONE	1 SS sleeve			X	X															
SL-050-SA8N-SS-0.0-0.5	04.12.11	1045	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X								X		
SL-050-SA8N-SS-0.0-0.5	04.12.11	1045	SOIL	NONE	1 SS sleeve			X	X															
SL-131-SA8N-SS-0.0-0.5	04.12.11	1500	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-131-SA8N-SS-0.0-0.5	04.12.11	1500	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature) — Date/Time: 04/12/2011 / 1700 — Received for Laboratory by: (Signature) — 4/13/11 1005

Received by: (Signature) — Date/Time — Airbill No.(s): 8700 5932 3043; 8700 5932 3065; 8700 5932 3087; 8700 5932 3102

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Gp# 1241929 sample# 6256881-900

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Stef Q Butler																									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
EB01-SA8N-SS-041211	04.12.11	1600	WATER	NONE	6-1 liter ambers			X	X	X															
EB01-SA8N-SS-041211	04.12.11	1600	WATER	NONE	1-500 mL poly		X				X	X	X												
EB01-SA8N-SS-041211	04.12.11	1600	WATER	HNO3	1-500 mL poly	X																			
Relinquished by: (Signature)	Date/Time 04/12/2011 / 1700		Received for Laboratory by: (Signature) 4/13/11 1005																						Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8700 5932 3043; 8700 5932 3065 8700 5932 3087; 8700 5932 3102																						

acct# 13013 Gp# 1241929 Sample# 6256881-900

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199 @	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-202-SA5A-SB-3.5	04.12.11	1410	SOIL	NONE	4-Encores										X	X											
SL-202-SA5A-SB-3.0-4.0	04.12.11	1414	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-206-SA5A-SB-4.5	04.12.11	1521	SOIL	NONE	4-Encores										X	X											
SL-206-SA5A-SB-4.0-5.0	04.12.11	1525	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X													
SL-207-SA5A-SB-3.5	04.12.11	1158	SOIL	NONE	4-Encores										X	X											
SL-207-SA5A-SB-3.0-4.0	04.12.11	1203	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-227-SA5A-SB-3.5	04.12.11	1008	SOIL	NONE	4-Encores										X	X											
SL-227-SA5A-SB-3.0-4.0	04.12.11	1013	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-228-SA5A-SB-3.5	04.12.11	0903	SOIL	NONE	4-Encores										X	X											
SL-228-SA5A-SB-3.0-4.0	04.12.11	0906	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X													
TB-041211	04.12.11		WATER	HCl	3-40 mL VOA VIALS										X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/11/2011 / 1700 — Received for Laboratory by: (Signature) 4/13/11 1005

Received by: (Signature) — Date/Time — Airbill No.(s): 8700 5932 3043; 8700 5932 3065; 8700 5932 3087; 8700 5932 3102

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/14/2011
Group Number: 1242142
SDG: DE126
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP02-SA8N-QC-041311 Soil	6257873
SL-027-SA8N-SS-0.0-0.5 Soil	6257874
SL-027-SA8N-SS-0.0-0.5MS Soil	6257875
SL-027-SA8N-SS-0.0-0.5MSD Soil	6257876
SL-027-SA8N-SS-0.0-0.5DUP Soil	6257877
SL-028-SA8N-SS-0.0-0.5 Soil	6257878
SL-032-SA8N-SS-0.0-0.5 Soil	6257879
SL-046-SA8N-SS-0.0-0.5 Soil	6257880
EB02-SA8N-SS-041311 Water	6257881
SL-060-SA5A-SB-4.0-5.0 Soil	6257882
SL-060-SA5A-SB-8.0-9.0 Soil	6257883
SL-061-SA5A-SB-4.0-5.0 Soil	6257884
SL-204-SA5A-SB-4.0-5.0 Soil	6257885
SL-205-SA5A-SB-4.0-5.0 Soil	6257886
SL-205-SA5A-SB-8.0-9.0 Soil	6257887
TB-041311 Water	6257888

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad Moline

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP02-SA8N-QC-041311 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257873
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2601 SDG#: DE126-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	55	J	20	200		1
04688	Benzo(a)pyrene	50-32-8	66	J	20	200		1
04688	Benzo(b)fluoranthene	205-99-2	98	J	20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	51	J	20	200		1
04688	Benzo(k)fluoranthene	207-08-9	37	J	20	200		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Chrysene	218-01-9	91	J	20	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Fluoranthene	206-44-0	45	J	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	47	J	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP02-SA8N-QC-041311 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257873
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2601 SDG#: DE126-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	Pyrene	129-00-0	67	J	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.63	J	0.39	2.0		1
10138	Anthracene	120-12-7	1.5	J	0.39	2.0		1
10138	Butylbenzylphthalate	85-68-7	8.8	J	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Dibenz(a,h)anthracene	53-70-3	1.3	J	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	260		7.0	21		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	1.4	J	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	2.5		0.78	2.0		1
10138	Naphthalene	91-20-3	4.6		0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	230		7.0	21		1
10138	Phenanthrene	85-01-8	7.3		0.78	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	120	U	120	390		100
10225	Aroclor 5442	12642-23-8	120	U	120	390		100
10225	Aroclor 5460	11126-42-4	120	U	120	390		100
10225	PCB-1016	12674-11-2	39	U	39	200		100
10225	PCB-1221	11104-28-2	39	U	39	200		100
10225	PCB-1232	11141-16-5	39	U	39	200		100
10225	PCB-1242	53469-21-9	39	U	39	200		100
10225	PCB-1248	12672-29-6	39	U	39	200		100
10225	PCB-1254	11097-69-1	39	U	39	200		100
10225	PCB-1260	11096-82-5	46	U	46	200		100
10225	PCB-1262	37324-23-5	39	U	39	200		100
10225	PCB-1268	11100-14-4	39	U	39	200		100
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,600		5.79	23.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP02-SA8N-QC-041311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257873
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2601 SDG#: DE126-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	15.2		1.03	5.76		1
01650	Calcium	7440-70-2	25,400		7.06	23.0		1
01654	Iron	7439-89-6	48,200		27.1	115		5
01656	Lithium	7439-93-2	21.6		0.25	2.3		1
01657	Magnesium	7439-95-4	7,060		2.93	11.5		1
06958	Manganese	7439-96-5	459		0.0899	0.576		1
10145	Phosphorus	7723-14-0	1,430		0.645	11.5		1
01662	Potassium	7440-09-7	6,340		20.7	57.6		1
01667	Sodium	7440-23-5	219		43.0	115		1
07968	Strontium	7440-24-6	112		0.0714	0.576		1
06969	Tin	7440-31-5	3.46	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,350		0.442	1.16		1
10146	Zirconium	7440-67-7	6.37		0.968	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.738		0.0698	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.75		0.0931	0.465		2
06126	Barium	7440-39-3	195		0.126	0.465		2
06127	Beryllium	7440-41-7	0.895		0.0186	0.116		2
06128	Cadmium	7440-43-9	1.31		0.0465	0.116		2
06131	Chromium	7440-47-3	36.1		0.140	0.465		2
06132	Cobalt	7440-48-4	11.4		0.0233	0.116		2
06133	Copper	7440-50-8	54.9		0.0768	0.465		2
06135	Lead	7439-92-1	29.3		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.630		0.0582	0.116		2
06139	Nickel	7440-02-0	26.0		0.116	0.465		2
06141	Selenium	7782-49-2	0.200	J	0.0465	0.465		2
06142	Silver	7440-22-4	0.502		0.0140	0.116		2
06145	Thallium	7440-28-0	0.359		0.0349	0.116		2
06148	Vanadium	7440-62-2	63.0		0.0256	0.116		2
06149	Zinc	7440-66-6	188		0.652	3.49		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0795	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP02-SA8N-QC-041311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257873
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2601 SDG#: DE126-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	329	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.21	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 01:15	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 12:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 02:19	Lindsey K Lafferty	100
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 00:47	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 04:58	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 00:47	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/27/2011 05:02	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 04:58	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 00:47	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 00:47	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/27/2011 04:58	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 00:47	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 00:47	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 00:47	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 04:58	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:02	Joanne M Gates	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP02-SA8N-QC-041311 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257873
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2601 SDG#: DE126-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 00:47	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/22/2011 09:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 06:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 03:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 14:48	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 13:39	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101B	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401B	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257874
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

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Sample Description: **SL-027-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257874
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.51	J	0.39	2.0		1
10138	Anthracene	120-12-7	0.82	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	4.4		0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	5.1		0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	12		0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	5.1		0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	3.7		0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	10		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.98	J	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41		7.1	21		1
10138	Fluoranthene	206-44-0	10		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7		0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	1.3	J	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	1.8	J	0.78	2.0		1
10138	Naphthalene	91-20-3	3.9		0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	4.9		0.78	2.0		1
10138	Pyrene	129-00-0	7.6		0.78	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	59	U	59	190		50
10225	Aroclor 5442	12642-23-8	59	U	59	190		50
10225	Aroclor 5460	11126-42-4	59	U	59	190		50
10225	PCB-1016	12674-11-2	19	U	19	100		50
10225	PCB-1221	11104-28-2	19	U	19	100		50
10225	PCB-1232	11141-16-5	19	U	19	100		50
10225	PCB-1242	53469-21-9	19	U	19	100		50
10225	PCB-1248	12672-29-6	19	U	19	100		50
10225	PCB-1254	11097-69-1	19	U	19	100		50
10225	PCB-1260	11096-82-5	23	U	23	100		50
10225	PCB-1262	37324-23-5	19	U	19	100		50
10225	PCB-1268	11100-14-4	19	U	19	100		50

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-027-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257874
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	3.6	J	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	31		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	170		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,200		5.93	23.6		1
07914	Boron	7440-42-8	23.6		1.05	5.90		1
01650	Calcium	7440-70-2	26,900		7.23	23.6		1
01654	Iron	7439-89-6	29,600		5.55	23.6		1
01656	Lithium	7439-93-2	25.1		0.26	2.4		1
01657	Magnesium	7439-95-4	7,940		3.00	11.8		1
06958	Manganese	7439-96-5	444		0.0920	0.590		1
10145	Phosphorus	7723-14-0	1,580		0.660	11.8		1
01662	Potassium	7440-09-7	6,680		21.2	59.0		1
01667	Sodium	7440-23-5	219		44.0	118		1
07968	Strontium	7440-24-6	111		0.0731	0.590		1
06969	Tin	7440-31-5	3.09	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,360		0.448	1.18		1
10146	Zirconium	7440-67-7	7.09		0.991	5.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.678		0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.19		0.0898	0.449		2
06126	Barium	7440-39-3	198		0.121	0.449		2
06127	Beryllium	7440-41-7	0.970		0.0180	0.112		2
06128	Cadmium	7440-43-9	1.30		0.0449	0.112		2
06131	Chromium	7440-47-3	39.7		0.135	0.449		2
06132	Cobalt	7440-48-4	10.7		0.0225	0.112		2
06133	Copper	7440-50-8	57.3		0.0741	0.449		2
06135	Lead	7439-92-1	31.2		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.779		0.0562	0.112		2
06139	Nickel	7440-02-0	28.5		0.112	0.449		2
06141	Selenium	7782-49-2	0.216	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.298		0.0135	0.112		2
06145	Thallium	7440-28-0	0.340		0.0337	0.112		2
06148	Vanadium	7440-62-2	65.4		0.0247	0.112		2
06149	Zinc	7440-66-6	182		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0873	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257874
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02BKG

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.6		0.94	1.2		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.6	U	10.6	35.4		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.65	J	0.24	1.2		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	312		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.27		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	15.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 00:03	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 10:25	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 02:38	Lindsey K Lafferty	50
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 09:47	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1

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Sample Description: **SL-027-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257874
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 04:26	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 04:26	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/27/2011 04:26	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 04:26	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 06:37	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/22/2011 09:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 06:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 02:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 13:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243201A	04/29/2011 13:57	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-027-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257874
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257875
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,900		20	200		1
04688	Acenaphthylene	208-96-8	2,000		20	200		1
04688	Aniline	62-53-3	1,400		200	590		1
04688	Anthracene	120-12-7	2,000		20	200		1
04688	Benzidine	92-87-5	3,000	J	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	2,000		20	200		1
04688	Benzo(a)pyrene	50-32-8	1,800		20	200		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		20	200		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		20	200		1
04688	Benzoic acid	65-85-0	910		200	590		1
04688	Benzyl alcohol	100-51-6	1,900		200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		20	200		1
04688	Butylbenzylphthalate	85-68-7	2,100		20	200		1
04688	Di-n-butylphthalate	84-74-2	2,000		20	200		1
04688	Carbazole	86-74-8	2,000		20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		39	200		1
04688	4-Chloroaniline	106-47-8	1,200		79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900		20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,900		20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		20	200		1
04688	2-Chloronaphthalene	91-58-7	2,000		20	200		1
04688	2-Chlorophenol	95-57-8	1,900		20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900		39	200		1
04688	Chrysene	218-01-9	2,000		20	200		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		20	200		1
04688	Dibenzofuran	132-64-9	1,900		20	200		1
04688	1,2-Dichlorobenzene	95-50-1	1,800		20	200		1
04688	1,3-Dichlorobenzene	541-73-1	1,800		20	200		1
04688	1,4-Dichlorobenzene	106-46-7	1,800		20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,700		120	390		1
04688	2,4-Dichlorophenol	120-83-2	2,000		20	200		1
04688	Diethylphthalate	84-66-2	1,900		20	200		1
04688	2,4-Dimethylphenol	105-67-9	1,800		39	200		1
04688	3,5-Dimethylphenol	108-68-9	1,900		39	200		1
04688	Dimethylphthalate	131-11-3	1,800		20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	840		200	590		1
04688	2,4-Dinitrophenol	51-28-5	1,100	J	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,900		39	200		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	2,100		20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,200		20	390		1
04688	Fluoranthene	206-44-0	2,000		20	200		1
04688	Fluorene	86-73-7	2,000		20	200		1
04688	Hexachlorobenzene	118-74-1	1,900		20	200		1
04688	Hexachlorobutadiene	87-68-3	1,800		79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	1,200		200	590		1
04688	Hexachloroethane	67-72-1	1,600		20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		20	200		1
04688	Isophorone	78-59-1	1,800		20	200		1

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Sample Description: SL-027-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257875
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,900	20	200		1
04688	2-Methylnaphthalene	91-57-6	1,800	20	200		1
04688	2-Methylphenol	95-48-7	1,900	39	200		1
04688	4-Methylphenol	106-44-5	2,100	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,900	20	200		1
04688	2-Nitroaniline	88-74-4	2,000	20	200		1
04688	3-Nitroaniline	99-09-2	1,900	39	200		1
04688	4-Nitroaniline	100-01-6	1,800	79	200		1
04688	Nitrobenzene	98-95-3	1,900	20	200		1
04688	2-Nitrophenol	88-75-5	1,800	20	200		1
04688	4-Nitrophenol	100-02-7	1,900	200	590		1
04688	N-Nitrosodimethylamine	62-75-9	1,800	39	200		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	20	200		1
04688	Pentachlorophenol	87-86-5	1,300	200	590		1
04688	Phenanthrene	85-01-8	2,000	20	200		1
04688	Phenol	108-95-2	1,900	20	200		1
04688	Pyrene	129-00-0	2,000	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	2,000	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	39	200		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	42	0.79	2.0		1
10138	Acenaphthylene	208-96-8	40	0.39	2.0		1
10138	Anthracene	120-12-7	39	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	42	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	40	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	47	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	25	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	42	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	47	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	47	7.1	21		1
10138	Chrysene	218-01-9	43	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	32	0.79	2.0		1
10138	Diethylphthalate	84-66-2	37	7.1	21		1
10138	Dimethylphthalate	131-11-3	42	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	64	7.1	21		1
10138	Fluoranthene	206-44-0	48	0.79	2.0		1
10138	Fluorene	86-73-7	41	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	40	0.79	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257875
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	37		0.79	2.0		1
10138	Naphthalene	91-20-3	41		0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	41		0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	55		7.1	21		1
10138	Phenanthrene	85-01-8	43		0.79	2.0		1
10138	Pyrene	129-00-0	40		0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	59	U	59	190		50
10225	Aroclor 5442	12642-23-8	59	U	59	190		50
10225	Aroclor 5460	11126-42-4	59	U	59	190		50
10225	PCB-1016	12674-11-2	19	U	19	100		50
10225	PCB-1221	11104-28-2	19	U	19	100		50
10225	PCB-1232	11141-16-5	19	U	19	100		50
10225	PCB-1242	53469-21-9	19	U	19	100		50
10225	PCB-1248	12672-29-6	19	U	19	100		50
10225	PCB-1254	11097-69-1	19	U	19	100		50
10225	PCB-1260	11096-82-5	23	U	23	100		50
10225	PCB-1262	37324-23-5	19	U	19	100		50
10225	PCB-1268	11100-14-4	19	U	19	100		50
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,400		5.82	23.1		1
07914	Boron	7440-42-8	238		1.03	5.78		1
01650	Calcium	7440-70-2	29,600		7.09	23.1		1
01654	Iron	7439-89-6	30,900		5.45	23.1		1
01656	Lithium	7439-93-2	144		0.25	2.3		1
01657	Magnesium	7439-95-4	8,730		2.94	11.6		1
06958	Manganese	7439-96-5	514		0.0902	0.578		1
10145	Phosphorus	7723-14-0	1,540		0.647	11.6		1
01662	Potassium	7440-09-7	8,200		20.8	57.8		1
01667	Sodium	7440-23-5	1,330		43.1	116		1
07968	Strontium	7440-24-6	222		0.0717	0.578		1
06969	Tin	7440-31-5	390		1.16	11.6		1
06970	Titanium	7440-32-6	1,780		0.439	1.16		1
10146	Zirconium	7440-67-7	111		0.971	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.15		0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.3		0.0925	0.462		2
06126	Barium	7440-39-3	181		0.312	1.16		5
06127	Beryllium	7440-41-7	1.97		0.0185	0.116		2
06128	Cadmium	7440-43-9	3.04		0.0462	0.116		2
06131	Chromium	7440-47-3	53.6		0.139	0.462		2

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Sample Description: **SL-027-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257875
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	85.4	0.0231	0.116		2
06133	Copper	7440-50-8	64.6	0.0763	0.462		2
06135	Lead	7439-92-1	38.0	0.0120	0.231		2
06138	Molybdenum	7439-98-7	14.3	0.0578	0.116		2
06139	Nickel	7440-02-0	45.5	0.116	0.462		2
06141	Selenium	7782-49-2	2.77	0.0462	0.462		2
06142	Silver	7440-22-4	14.7	0.0139	0.116		2
06145	Thallium	7440-28-0	0.916	0.0347	0.116		2
06148	Vanadium	7440-62-2	81.6	0.0254	0.116		2
06149	Zinc	7440-66-6	219	1.62	8.67		5
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.252	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.8	0.94	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	693	10.6	35.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	39.7	1.2	5.9		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 00:27	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 10:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 02:57	Lindsey K Lafferty	50
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1

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Sample Description: **SL-027-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257875
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 04:38	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 04:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/27/2011 04:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 04:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 06:50	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/25/2011 09:12	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/22/2011 09:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/25/2011 09:12	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 06:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 02:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 14:26	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	05/02/2011 09:19	Venia B McFadden	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257876
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	2,000	20	200		1
04688	Acenaphthylene	208-96-8	2,000	20	200		1
04688	Aniline	62-53-3	1,400	200	590		1
04688	Anthracene	120-12-7	2,100	20	200		1
04688	Benzidine	92-87-5	4,500	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	2,000	20	200		1
04688	Benzo(a)pyrene	50-32-8	1,900	20	200		1
04688	Benzo(b)fluoranthene	205-99-2	1,700	20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000	20	200		1
04688	Benzo(k)fluoranthene	207-08-9	1,900	20	200		1
04688	Benzoic acid	65-85-0	810	200	590		1
04688	Benzyl alcohol	100-51-6	1,900	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	2,000	20	200		1
04688	Butylbenzylphthalate	85-68-7	2,200	20	200		1
04688	Di-n-butylphthalate	84-74-2	2,100	20	200		1
04688	Carbazole	86-74-8	2,100	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	2,000	39	200		1
04688	4-Chloroaniline	106-47-8	1,300	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	2,000	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800	20	200		1
04688	2-Chloronaphthalene	91-58-7	2,000	20	200		1
04688	2-Chlorophenol	95-57-8	2,100	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900	39	200		1
04688	Chrysene	218-01-9	2,000	20	200		1
04688	Dibenz(a,h)anthracene	53-70-3	2,000	20	200		1
04688	Dibenzofuran	132-64-9	2,000	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	1,800	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	1,800	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	1,900	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,800	120	390		1
04688	2,4-Dichlorophenol	120-83-2	2,000	20	200		1
04688	Diethylphthalate	84-66-2	1,900	20	200		1
04688	2,4-Dimethylphenol	105-67-9	2,000	39	200		1
04688	3,5-Dimethylphenol	108-68-9	2,000	39	200		1
04688	Dimethylphthalate	131-11-3	1,900	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	890	200	590		1
04688	2,4-Dinitrophenol	51-28-5	1,200	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	2,000	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	2,200	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,300	20	390		1
04688	Fluoranthene	206-44-0	2,100	20	200		1
04688	Fluorene	86-73-7	2,000	20	200		1
04688	Hexachlorobenzene	118-74-1	1,900	20	200		1
04688	Hexachlorobutadiene	87-68-3	1,900	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	1,300	200	590		1
04688	Hexachloroethane	67-72-1	1,600	20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000	20	200		1
04688	Isophorone	78-59-1	1,900	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257876
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	2,000	20	200		1
04688	2-Methylnaphthalene	91-57-6	1,800	20	200		1
04688	2-Methylphenol	95-48-7	1,900	39	200		1
04688	4-Methylphenol	106-44-5	2,100	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,900	20	200		1
04688	2-Nitroaniline	88-74-4	2,100	20	200		1
04688	3-Nitroaniline	99-09-2	2,000	39	200		1
04688	4-Nitroaniline	100-01-6	1,500	79	200		1
04688	Nitrobenzene	98-95-3	2,000	20	200		1
04688	2-Nitrophenol	88-75-5	1,900	20	200		1
04688	4-Nitrophenol	100-02-7	1,900	200	590		1
04688	N-Nitrosodimethylamine	62-75-9	1,800	39	200		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,900	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	2,100	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	20	200		1
04688	Pentachlorophenol	87-86-5	1,500	200	590		1
04688	Phenanthrene	85-01-8	2,000	20	200		1
04688	Phenol	108-95-2	1,900	20	200		1
04688	Pyrene	129-00-0	2,000	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	2,000	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	2,100	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	2,100	39	200		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	42	0.79	2.0		1
10138	Acenaphthylene	208-96-8	40	0.39	2.0		1
10138	Anthracene	120-12-7	40	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	47	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	48	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	56	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	26	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	50	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	180	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	47	7.1	21		1
10138	Chrysene	218-01-9	51	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	31	0.79	2.0		1
10138	Diethylphthalate	84-66-2	37	7.1	21		1
10138	Dimethylphthalate	131-11-3	42	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	83	7.1	21		1
10138	Fluoranthene	206-44-0	56	0.79	2.0		1
10138	Fluorene	86-73-7	41	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	41	0.79	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257876
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	37		0.79	2.0		1
10138	Naphthalene	91-20-3	41		0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	39		0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	61		7.1	21		1
10138	Phenanthrene	85-01-8	44		0.79	2.0		1
10138	Pyrene	129-00-0	47		0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	59	U	59	190		50
10225	Aroclor 5442	12642-23-8	59	U	59	190		50
10225	Aroclor 5460	11126-42-4	59	U	59	190		50
10225	PCB-1016	12674-11-2	19	U	19	100		50
10225	PCB-1221	11104-28-2	19	U	19	100		50
10225	PCB-1232	11141-16-5	19	U	19	100		50
10225	PCB-1242	53469-21-9	19	U	19	100		50
10225	PCB-1248	12672-29-6	19	U	19	100		50
10225	PCB-1254	11097-69-1	19	U	19	100		50
10225	PCB-1260	11096-82-5	23	U	23	100		50
10225	PCB-1262	37324-23-5	19	U	19	100		50
10225	PCB-1268	11100-14-4	19	U	19	100		50
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,600		5.82	23.1		1
07914	Boron	7440-42-8	244		1.03	5.78		1
01650	Calcium	7440-70-2	29,700		7.09	23.1		1
01654	Iron	7439-89-6	31,000		5.45	23.1		1
01656	Lithium	7439-93-2	145		0.25	2.3		1
01657	Magnesium	7439-95-4	8,700		2.94	11.6		1
06958	Manganese	7439-96-5	484		0.0902	0.578		1
10145	Phosphorus	7723-14-0	1,740		0.647	11.6		1
01662	Potassium	7440-09-7	8,390		20.8	57.8		1
01667	Sodium	7440-23-5	1,350		43.1	116		1
07968	Strontium	7440-24-6	230		0.0717	0.578		1
06969	Tin	7440-31-5	388		1.16	11.6		1
06970	Titanium	7440-32-6	1,760		0.448	1.18		1
10146	Zirconium	7440-67-7	111		0.971	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.19		0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.3		0.0925	0.462		2
06126	Barium	7440-39-3	199		0.125	0.462		2
06127	Beryllium	7440-41-7	1.94		0.0185	0.116		2
06128	Cadmium	7440-43-9	2.63		0.0462	0.116		2
06131	Chromium	7440-47-3	57.9		0.139	0.462		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257876
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06132	Cobalt	7440-48-4	77.9	0.0231	0.116		2
06133	Copper	7440-50-8	70.8	0.0763	0.462		2
06135	Lead	7439-92-1	35.3	0.0120	0.231		2
06138	Molybdenum	7439-98-7	13.7	0.0578	0.116		2
06139	Nickel	7440-02-0	46.9	0.116	0.462		2
06141	Selenium	7782-49-2	2.76	0.0462	0.462		2
06142	Silver	7440-22-4	13.3	0.0139	0.116		2
06145	Thallium	7440-28-0	0.927	0.0347	0.116		2
06148	Vanadium	7440-62-2	75.0	0.0254	0.116		2
06149	Zinc	7440-66-6	207	1.62	8.67		5
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.259	0.0032	0.112		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 00:51	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 11:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 03:15	Lindsey K Lafferty	50
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 04:43	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 04:43	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/27/2011 04:43	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1

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Analysis Report

Sample Description: **SL-027-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257876
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 04:43	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 06:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/22/2011 09:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/25/2011 09:14	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257877
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,700		5.76	22.9		1
07914	Boron	7440-42-8	23.4		1.02	5.72		1
01650	Calcium	7440-70-2	26,900		7.02	22.9		1
01654	Iron	7439-89-6	29,500		5.39	22.9		1
01656	Lithium	7439-93-2	24.8		0.25	2.3		1
01657	Magnesium	7439-95-4	7,860		2.91	11.4		1
06958	Manganese	7439-96-5	470		0.0893	0.572		1
10145	Phosphorus	7723-14-0	1,530		0.641	11.4		1
01662	Potassium	7440-09-7	6,580		20.6	57.2		1
01667	Sodium	7440-23-5	211		42.7	114		1
07968	Strontium	7440-24-6	110		0.0710	0.572		1
06969	Tin	7440-31-5	2.75	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,400		0.444	1.17		1
10146	Zirconium	7440-67-7	7.41		0.962	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.571		0.0687	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.48		0.0916	0.458		2
06126	Barium	7440-39-3	147		0.124	0.458		2
06127	Beryllium	7440-41-7	0.783		0.0183	0.114		2
06128	Cadmium	7440-43-9	1.23		0.0458	0.114		2
06131	Chromium	7440-47-3	30.6		0.137	0.458		2
06132	Cobalt	7440-48-4	8.08		0.0229	0.114		2
06133	Copper	7440-50-8	42.2		0.0756	0.458		2
06135	Lead	7439-92-1	22.7		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.597		0.0572	0.114		2
06139	Nickel	7440-02-0	22.3		0.114	0.458		2
06141	Selenium	7782-49-2	0.168	J	0.0458	0.458		2
06142	Silver	7440-22-4	0.256		0.0137	0.114		2
06145	Thallium	7440-28-0	0.276		0.0343	0.114		2
06148	Vanadium	7440-62-2	51.5		0.0252	0.114		2
06149	Zinc	7440-66-6	147		0.641	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.184		0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.24	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257877
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		mV	mV	mV	mV	
01821	32a OR Potential	n.a.	313	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.28	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11626	28a Moisture Content by 160.3	n.a.	15.0	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 04:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 04:34	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/27/2011 04:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 04:34	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 06:45	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257877
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/22/2011 09:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/25/2011 09:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/25/2011 09:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 06:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 02:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 14:04	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 14:41	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257878
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2603 SDG#: DE126-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzo(a)anthracene	56-55-3	22	J	20	200		1
04688	Benzo(b)fluoranthene	205-99-2	24	J	20	200		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Chrysene	218-01-9	28	J	20	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	20	400		1
04688	Fluoranthene	206-44-0	34	J	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257878
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2603 SDG#: DE126-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	Pyrene	129-00-0	28	J	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.56	J	0.40	2.0		1
10138	Anthracene	120-12-7	1.7	J	0.40	2.0		1
10138	Benzo(a)pyrene	50-32-8	10		0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	6.4		0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	7.5		0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Dibenz(a,h)anthracene	53-70-3	1.5	J	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.2		0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	1.1	J	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	1.6	J	0.80	2.0		1
10138	Naphthalene	91-20-3	2.5		0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	7.0		0.80	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1,200	U	1,200	4,000		1000
10225	Aroclor 5442	12642-23-8	1,200	U	1,200	4,000		1000
10225	Aroclor 5460	11126-42-4	1,200	U	1,200	4,000		1000
10225	PCB-1016	12674-11-2	400	U	400	2,100		1000
10225	PCB-1221	11104-28-2	400	U	400	2,100		1000
10225	PCB-1232	11141-16-5	400	U	400	2,100		1000
10225	PCB-1242	53469-21-9	400	U	400	2,100		1000
10225	PCB-1248	12672-29-6	400	U	400	2,100		1000
10225	PCB-1254	11097-69-1	400	U	400	2,100		1000
10225	PCB-1260	11096-82-5	470	U	470	2,100		1000
10225	PCB-1262	37324-23-5	400	U	400	2,100		1000
10225	PCB-1268	11100-14-4	400	U	400	2,100		1000
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257878
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2603 SDG#: DE126-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.4	U	2.4	7.1		5
10199	EFH (C15-C20)	n.a.	2.4	U	2.4	7.1		5
10199	EFH (C21-C30)	n.a.	31		2.4	7.1		5
10199	EFH (C30 - C40)	n.a.	100		2.4	7.1		5
10199	EFH (C8-C11)	n.a.	2.4	U	2.4	7.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,200		6.03	24.0		1
07914	Boron	7440-42-8	12.5		1.07	5.99		1
01650	Calcium	7440-70-2	18,700		7.35	24.0		1
01654	Iron	7439-89-6	25,300		5.65	24.0		1
01656	Lithium	7439-93-2	22.4		0.26	2.4		1
01657	Magnesium	7439-95-4	6,090		3.04	12.0		1
06958	Manganese	7439-96-5	383		0.0935	0.599		1
10145	Phosphorus	7723-14-0	874		0.671	12.0		1
01662	Potassium	7440-09-7	5,870		21.6	59.9		1
01667	Sodium	7440-23-5	138		44.7	120		1
07968	Strontium	7440-24-6	66.0		0.0743	0.599		1
06969	Tin	7440-31-5	2.74	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,390		0.447	1.18		1
10146	Zirconium	7440-67-7	4.91	J	1.01	5.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.240		0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.05		0.0922	0.461		2
06126	Barium	7440-39-3	114		0.125	0.461		2
06127	Beryllium	7440-41-7	0.630		0.0184	0.115		2
06128	Cadmium	7440-43-9	1.14		0.0461	0.115		2
06131	Chromium	7440-47-3	25.0		0.138	0.461		2
06132	Cobalt	7440-48-4	7.61		0.0231	0.115		2
06133	Copper	7440-50-8	27.0		0.0761	0.461		2
06135	Lead	7439-92-1	22.8		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.495		0.0577	0.115		2
06139	Nickel	7440-02-0	17.5		0.115	0.461		2
06141	Selenium	7782-49-2	0.177	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0961	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.278		0.0346	0.115		2
06148	Vanadium	7440-62-2	43.2		0.0254	0.115		2
06149	Zinc	7440-66-6	125		0.646	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0341	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257878
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2603 SDG#: DE126-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.97	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	325		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 01:40	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 12:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 03:34	Lindsey K Lafferty	1000
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 10:20	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257878
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2603 SDG#: DE126-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:06	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:06	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:06	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/22/2011 09:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 03:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 15:10	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 15:06	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257878
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2603 SDG#: DE126-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-032-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257879
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2604 SDG#: DE126-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257879
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2604 SDG#: DE126-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.51	J	0.36	1.8		1
10138	Anthracene	120-12-7	1.3	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.1		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.1		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	11		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.6		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	4.8		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	9.1		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	17		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.5		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.72	1.8		1
10138	Naphthalene	91-20-3	2.0		0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	6.5		0.72	1.8		1
10138	Pyrene	129-00-0	14		0.72	1.8		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	110	U	110	360		100
10225	Aroclor 5442	12642-23-8	110	U	110	360		100
10225	Aroclor 5460	11126-42-4	110	U	110	360		100
10225	PCB-1016	12674-11-2	36	U	36	180		100
10225	PCB-1221	11104-28-2	36	U	36	180		100
10225	PCB-1232	11141-16-5	36	U	36	180		100
10225	PCB-1242	53469-21-9	36	U	36	180		100
10225	PCB-1248	12672-29-6	36	U	36	180		100
10225	PCB-1254	11097-69-1	36	U	36	180		100
10225	PCB-1260	11096-82-5	42	U	42	180		100
10225	PCB-1262	37324-23-5	36	U	36	180		100
10225	PCB-1268	11100-14-4	36	U	36	180		100

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-032-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257879
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2604 SDG#: DE126-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.4		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.4		5
10199	EFH (C21-C30)	n.a.	31		2.1	6.4		5
10199	EFH (C30 - C40)	n.a.	96		2.1	6.4		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.4		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,100		5.38	21.4		1
07914	Boron	7440-42-8	6.94		0.952	5.35		1
01650	Calcium	7440-70-2	7,260		6.55	21.4		1
01654	Iron	7439-89-6	22,900		5.04	21.4		1
01656	Lithium	7439-93-2	21.4		0.24	2.1		1
01657	Magnesium	7439-95-4	5,220		2.72	10.7		1
06958	Manganese	7439-96-5	306		0.0834	0.535		1
10145	Phosphorus	7723-14-0	552		0.599	10.7		1
01662	Potassium	7440-09-7	4,580		19.2	53.5		1
01667	Sodium	7440-23-5	167		39.9	107		1
07968	Strontium	7440-24-6	30.7		0.0663	0.535		1
06969	Tin	7440-31-5	2.71	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,270		0.398	1.05		1
10146	Zirconium	7440-67-7	3.82	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.70		0.0855	0.428		2
06126	Barium	7440-39-3	137		0.115	0.428		2
06127	Beryllium	7440-41-7	0.894		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.274		0.0428	0.107		2
06131	Chromium	7440-47-3	28.9		0.128	0.428		2
06132	Cobalt	7440-48-4	11.2		0.0214	0.107		2
06133	Copper	7440-50-8	20.1		0.0706	0.428		2
06135	Lead	7439-92-1	15.2		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.687		0.0535	0.107		2
06139	Nickel	7440-02-0	19.8		0.107	0.428		2
06141	Selenium	7782-49-2	0.151	J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0537	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.475		0.0321	0.107		2
06148	Vanadium	7440-62-2	52.9		0.0235	0.107		2
06149	Zinc	7440-66-6	99.9		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0494	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-032-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257879
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2604 SDG#: DE126-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	319		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.94		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 02:04	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 13:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 19:13	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 03:52	Lindsey K Lafferty	100
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257879
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2604 SDG#: DE126-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 10:52	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:10	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:10	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:10	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:17	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/25/2011 09:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 03:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 15:54	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243201A	04/29/2011 15:25	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-032-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257879
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2604 SDG#: DE126-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257880
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2605 SDG#: DE126-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257880
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2605 SDG#: DE126-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.59	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.4		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.92	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	4.2		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	11		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	1.3	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	6.2		0.73	1.8		1
10138	Pyrene	129-00-0	7.4		0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.2	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.8	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.5	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.5		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-046-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257880
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2605 SDG#: DE126-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C21-C30)	n.a.	25		2.2	6.5		5
10199	EFH (C30 - C40)	n.a.	96		2.2	6.5		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.5		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,100		5.52	22.0		1
07914	Boron	7440-42-8	9.50		0.977	5.49		1
01650	Calcium	7440-70-2	8,440		6.73	22.0		1
01654	Iron	7439-89-6	26,200		5.17	22.0		1
01656	Lithium	7439-93-2	20.0		0.24	2.2		1
01657	Magnesium	7439-95-4	6,460		2.79	11.0		1
06958	Manganese	7439-96-5	396		0.0856	0.549		1
10145	Phosphorus	7723-14-0	663		0.615	11.0		1
01662	Potassium	7440-09-7	6,310		19.8	54.9		1
01667	Sodium	7440-23-5	96.1	J	40.9	110		1
07968	Strontium	7440-24-6	31.6		0.0681	0.549		1
06969	Tin	7440-31-5	2.22	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,530		0.413	1.09		1
10146	Zirconium	7440-67-7	5.55		0.922	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.472		0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.22		0.0853	0.426		2
06126	Barium	7440-39-3	130		0.115	0.426		2
06127	Beryllium	7440-41-7	0.880		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.450		0.0426	0.107		2
06131	Chromium	7440-47-3	35.1		0.128	0.426		2
06132	Cobalt	7440-48-4	11.7		0.0213	0.107		2
06133	Copper	7440-50-8	22.1		0.0703	0.426		2
06135	Lead	7439-92-1	14.9		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.665		0.0533	0.107		2
06139	Nickel	7440-02-0	23.6		0.107	0.426		2
06141	Selenium	7782-49-2	0.263	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0697	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.428		0.0320	0.107		2
06148	Vanadium	7440-62-2	61.9		0.0234	0.107		2
06149	Zinc	7440-66-6	93.7		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0155	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.88	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-046-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257880
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2605 SDG#: DE126-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	328		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.57		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011	02:28	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011	13:37	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011	03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011	04:11	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011	16:10	JoElla L Rice	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011	11:24	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011	08:20	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011	01:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011	05:14	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011	01:05	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-046-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257880
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2605 SDG#: DE126-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:14	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:14	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:22	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 03:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 16:16	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 15:31	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB02-SA8N-SS-041311 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257881
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2606 SDG#: DE126-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	61		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB02-SA8N-SS-041311 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257881
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2606 SDG#: DE126-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.051	U	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.53	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1
10137	Diethylphthalate	84-66-2	0.13	J	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	3.2		0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.051		1
10137	Naphthalene	91-20-3	0.034	J	0.030	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	3.0		0.051	1.0		1
10137	Phenanthrene	85-01-8	0.018	J	0.010	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-octylphthalate

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB02-SA8N-SS-041311 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257881
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2606 SDG#: DE126-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046	U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB02-SA8N-SS-041311 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257881
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2606 SDG#: DE126-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.7		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11108WAC026	04/20/2011 14:52	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11106WAD026	04/18/2011 21:58	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11108WAC026	04/18/2011 22:00	Elaine F Stoltzfus	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11106WAD026	04/17/2011 11:40	Karen L Beyer	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111090006A	04/20/2011 14:35	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	111090006A	04/19/2011 16:00	Kelli M Barto	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111050020A	04/16/2011 01:12	Dustin A Underkoffler	1
01743	Aluminum	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
07070	Titanium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB02-SA8N-SS-041311 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257881
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2606 SDG#: DE126-06EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06025	Arsenic	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111086050002D	04/19/2011 12:26	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111086050002C	04/19/2011 12:26	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111086050002B	04/19/2011 12:26	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111095713004	04/19/2011 20:07	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111081848006	04/18/2011 09:45	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111086050002	04/18/2011 13:07	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111095713004	04/19/2011 15:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11109196601B	04/20/2011 08:06	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11115196701A	04/26/2011 04:50	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11104196401A	04/14/2011 12:29	Ashley M Adams	1
00200	18b pH by 9040B	SW-846 9040B	1	11104020003A	04/14/2011 22:20	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2607 SDG#: DE126-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.84
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.84
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.84
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.84
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.84
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.84
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.84
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.84
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.84
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.84
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.84
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.84
06192	Methylene Chloride	75-09-2	1.0	J	0.23	3.9		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.84

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2607 SDG#: DE126-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.84
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.84
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.84
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.84
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.84
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.84
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.42
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: **SL-060-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2607 SDG#: DE126-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1

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Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2607 SDG#: DE126-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,300		5.85	23.3		1
07914	Boron	7440-42-8	1.57	J	1.03	5.81		1
01650	Calcium	7440-70-2	5,130		7.13	23.3		1
01654	Iron	7439-89-6	46,200		27.4	116		5
01656	Lithium	7439-93-2	32.7		0.26	2.3		1
01657	Magnesium	7439-95-4	9,180		2.95	11.6		1
06958	Manganese	7439-96-5	203		0.0907	0.581		1
10145	Phosphorus	7723-14-0	404		0.651	11.6		1
01662	Potassium	7440-09-7	2,510		20.9	58.1		1
01667	Sodium	7440-23-5	177		43.4	116		1
07968	Strontium	7440-24-6	35.3		0.0721	0.581		1
06969	Tin	7440-31-5	3.50	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,320		0.433	1.14		1
10146	Zirconium	7440-67-7	3.26	J	0.977	5.81		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0866	J	0.0691	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	16.9		0.0921	0.461		2
06126	Barium	7440-39-3	134		0.124	0.461		2
06127	Beryllium	7440-41-7	1.40		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.0696	J	0.0461	0.115		2
06131	Chromium	7440-47-3	41.5		0.138	0.461		2
06132	Cobalt	7440-48-4	8.20		0.0230	0.115		2
06133	Copper	7440-50-8	33.2		0.0760	0.461		2
06135	Lead	7439-92-1	16.4		0.0120	0.230		2
06138	Molybdenum	7439-98-7	1.04		0.0576	0.115		2

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Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2607 SDG#: DE126-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	27.0	0.115	0.461		2
06141	Selenium	7782-49-2	0.171 J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0443 J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.487	0.0345	0.115		2
06148	Vanadium	7440-62-2	62.4	0.0253	0.115		2
06149	Zinc	7440-66-6	106	0.645	3.45		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078 J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	34.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	360	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.67	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-060-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2607 SDG#: DE126-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 17:15	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 18:41	Sara E Johnson	20.42
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110424106	04/14/2011 16:40	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110424106	04/14/2011 17:00	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110424106	04/14/2011 16:37	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 02:53	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 14:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 04:29	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:18	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/27/2011 21:15	John P Hook	5
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:18	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:18	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:26	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:05	Damary Valentin	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-060-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2607 SDG#: DE126-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 04:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 16:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 15:44	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257883
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2608 SDG#: DE126-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257883
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2608 SDG#: DE126-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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Analysis Report

Sample Description: SL-060-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257883
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2608 SDG#: DE126-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,900		5.45	21.7		1
07914	Boron	7440-42-8	2.16	J	0.964	5.41		1
01650	Calcium	7440-70-2	2,480		6.64	21.7		1
01654	Iron	7439-89-6	24,900		5.10	21.7		1
01656	Lithium	7439-93-2	29.3		0.24	2.2		1
01657	Magnesium	7439-95-4	5,410		2.75	10.8		1
06958	Manganese	7439-96-5	314		0.0845	0.541		1
10145	Phosphorus	7723-14-0	397		0.606	10.8		1
01662	Potassium	7440-09-7	2,900		19.5	54.1		1
01667	Sodium	7440-23-5	95.8	J	40.4	108		1
07968	Strontium	7440-24-6	21.2		0.0671	0.541		1
06969	Tin	7440-31-5	2.60	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,360		0.411	1.08		1
10146	Zirconium	7440-67-7	3.07	J	0.910	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0868	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.20		0.0866	0.433		2
06126	Barium	7440-39-3	136		0.117	0.433		2
06127	Beryllium	7440-41-7	0.886		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.172		0.0433	0.108		2
06131	Chromium	7440-47-3	30.3		0.130	0.433		2
06132	Cobalt	7440-48-4	9.45		0.0217	0.108		2
06133	Copper	7440-50-8	17.7		0.0715	0.433		2
06135	Lead	7439-92-1	8.50		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.869		0.0541	0.108		2
06139	Nickel	7440-02-0	25.1		0.108	0.433		2
06141	Selenium	7782-49-2	0.132	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0442	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.389		0.0325	0.108		2
06148	Vanadium	7440-62-2	48.8		0.0238	0.108		2
06149	Zinc	7440-66-6	72.0		0.606	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.23	1.1		1

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Sample Description: SL-060-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257883
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E2608 SDG#: DE126-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	391	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.66	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 03:17	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 14:41	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 19:19	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 04:48	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:23	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:23	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1

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E2608 SDG#: DE126-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:23	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:30	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 04:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 17:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243201A	04/29/2011 16:03	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2609 SDG#: DE126-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.6		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.83
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.83
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.83
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.83
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.83
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.83
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.83
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.83
06192	Methylene Chloride	75-09-2	1.3	J	0.23	3.8		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.83

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Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2609 SDG#: DE126-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.83
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		19.87
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2609 SDG#: DE126-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

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Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2609 SDG#: DE126-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,600		5.75	22.9		1
07914	Boron	7440-42-8	2.20	J	1.02	5.71		1
01650	Calcium	7440-70-2	2,510		7.01	22.9		1
01654	Iron	7439-89-6	25,900		5.38	22.9		1
01656	Lithium	7439-93-2	32.7		0.25	2.3		1
01657	Magnesium	7439-95-4	5,540		2.90	11.4		1
06958	Manganese	7439-96-5	250		0.0891	0.571		1
10145	Phosphorus	7723-14-0	324		0.640	11.4		1
01662	Potassium	7440-09-7	2,670		20.6	57.1		1
01667	Sodium	7440-23-5	113	J	42.6	114		1
07968	Strontium	7440-24-6	21.1		0.0709	0.571		1
06969	Tin	7440-31-5	2.84	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,420		0.426	1.12		1
10146	Zirconium	7440-67-7	3.33	J	0.960	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0897	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.78		0.0879	0.440		2
06126	Barium	7440-39-3	121		0.119	0.440		2
06127	Beryllium	7440-41-7	1.03		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0835	J	0.0440	0.110		2
06131	Chromium	7440-47-3	33.5		0.132	0.440		2
06132	Cobalt	7440-48-4	8.50		0.0220	0.110		2
06133	Copper	7440-50-8	18.0		0.0725	0.440		2
06135	Lead	7439-92-1	9.84		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.558		0.0549	0.110		2

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Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

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Suite 210
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E2609 SDG#: DE126-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	24.9	0.110	0.440		2
06141	Selenium	7782-49-2	0.144 J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0526 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.351	0.0330	0.110		2
06148	Vanadium	7440-62-2	52.0	0.0242	0.110		2
06149	Zinc	7440-66-6	71.2	0.615	3.30		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	410	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.39	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-061-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-061-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2609 SDG#: DE126-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 17:37	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 19:01	Sara E Johnson	19.87
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110424106	04/14/2011 16:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110424106	04/14/2011 16:41	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 03:42	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 15:12	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 05:06	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:08	Damary Valentin	1

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Sample Description: **SL-061-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2609 SDG#: DE126-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 04:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 17:22	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243201A	04/29/2011 16:15	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.86
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.86
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.86
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.86
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.86
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.86
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.86
06192	Methylene Chloride	75-09-2	3.6	J	0.23	3.9		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.86

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Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.86
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.86
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.86
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	166		18.8	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: **SL-204-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.06
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.86	J	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	3.6		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1

Target analytes were detected in the method blank associated with the sample as noted on the QC summary. The sample was re-extracted outside the method hold time. The C30-C40 result for the re-extraction is 0.78 mg/kg. All results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,200		5.68	22.6		1
07914	Boron	7440-42-8	2.68	J	1.01	5.65		1
01650	Calcium	7440-70-2	2,140		6.93	22.6		1
01654	Iron	7439-89-6	28,900		5.32	22.6		1
01656	Lithium	7439-93-2	30.4		0.25	2.3		1
01657	Magnesium	7439-95-4	5,420		2.87	11.3		1
06958	Manganese	7439-96-5	316		0.0881	0.565		1
10145	Phosphorus	7723-14-0	140		0.633	11.3		1
01662	Potassium	7440-09-7	1,740		20.3	56.5		1
01667	Sodium	7440-23-5	1,650		42.1	113		1
07968	Strontium	7440-24-6	25.8		0.0701	0.565		1
06969	Tin	7440-31-5	2.73	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,440		0.425	1.12		1
10146	Zirconium	7440-67-7	3.72	J	0.949	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0691	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.68		0.0886	0.443		2
06126	Barium	7440-39-3	93.7		0.120	0.443		2
06127	Beryllium	7440-41-7	0.892		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.0509	J	0.0443	0.111		2
06131	Chromium	7440-47-3	25.7		0.133	0.443		2
06132	Cobalt	7440-48-4	7.86		0.0222	0.111		2
06133	Copper	7440-50-8	9.83		0.0731	0.443		2
06135	Lead	7439-92-1	7.92		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.371		0.0554	0.111		2
06139	Nickel	7440-02-0	17.1		0.111	0.443		2
06141	Selenium	7782-49-2	0.0982	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.112		0.0133	0.111		2
06145	Thallium	7440-28-0	0.297		0.0332	0.111		2
06148	Vanadium	7440-62-2	50.0		0.0244	0.111		2
06149	Zinc	7440-66-6	54.9		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0058	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	21.6		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.7		0.90	1.7		1

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Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	383		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-204-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 17:59	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 19:21	Sara E Johnson	20.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110424106	04/14/2011 16:48	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110424106	04/14/2011 16:46	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11109SLD026	04/26/2011 21:57	Matthew S Woods	1

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SL-204-SA5A-SB-4.0-5.0

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E2610 SDG#: DE126-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 04:06	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 15:44	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11109SLD026	04/19/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	2	11112A34A	04/22/2011 20:12	Elizabeth J Marin	20.06
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201110424106	04/14/2011 16:45	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 16:20	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 02:33	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/21/2011 11:55	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 05:25	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 04:46	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 17:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 17:35	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 13:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:38	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-204-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 10:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/25/2011 09:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 04:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11116621201A	04/27/2011 04:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 17:44	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 16:21	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201B	04/21/2011 18:42	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201B	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2611 SDG#: DE126-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.87
06192	Methylene Chloride	75-09-2	0.65	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2611 SDG#: DE126-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.23
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2611 SDG#: DE126-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2611 SDG#: DE126-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		5.76	22.9		1
07914	Boron	7440-42-8	2.53	J	1.02	5.72		1
01650	Calcium	7440-70-2	2,550		7.01	22.9		1
01654	Iron	7439-89-6	25,400		5.39	22.9		1
01656	Lithium	7439-93-2	28.9		0.25	2.3		1
01657	Magnesium	7439-95-4	5,200		2.91	11.4		1
06958	Manganese	7439-96-5	272		0.0892	0.572		1
10145	Phosphorus	7723-14-0	195		0.641	11.4		1
01662	Potassium	7440-09-7	1,780		20.6	57.2		1
01667	Sodium	7440-23-5	95.0	J	42.7	114		1
07968	Strontium	7440-24-6	25.1		0.0709	0.572		1
06969	Tin	7440-31-5	2.62	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,430		0.418	1.10		1
10146	Zirconium	7440-67-7	3.57	J	0.961	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.97		0.0897	0.449		2
06126	Barium	7440-39-3	160		0.121	0.449		2
06127	Beryllium	7440-41-7	1.19		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0767	J	0.0449	0.112		2
06131	Chromium	7440-47-3	29.7		0.135	0.449		2
06132	Cobalt	7440-48-4	19.1		0.0224	0.112		2
06133	Copper	7440-50-8	15.9		0.0740	0.449		2
06135	Lead	7439-92-1	10.9		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.995		0.0561	0.112		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2611 SDG#: DE126-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	25.3	0.112	0.449		2
06141	Selenium	7782-49-2	0.0597 J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0751 J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.365	0.0337	0.112		2
06148	Vanadium	7440-62-2	56.0	0.0247	0.112		2
06149	Zinc	7440-66-6	69.4	0.628	3.37		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0035 J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.92	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	401	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.95	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-205-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2611 SDG#: DE126-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 18:22	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 19:41	Sara E Johnson	20.23
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110424106	04/14/2011 16:53	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110424106	04/14/2011 16:50	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 04:30	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 16:16	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 05:43	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 10:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 10:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:12	Damary Valentin	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-205-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2611 SDG#: DE126-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 05:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 18:06	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 16:34	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257887
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2612 SDG#: DE126-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

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Sample Description: SL-205-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257887
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2612 SDG#: DE126-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.65	22.5		1
07914	Boron	7440-42-8	1.78	J	0.999	5.62		1
01650	Calcium	7440-70-2	1,960		6.88	22.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-205-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257887
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2612 SDG#: DE126-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	20,200		5.29	22.5		1
01656	Lithium	7439-93-2	27.6		0.25	2.2		1
01657	Magnesium	7439-95-4	4,130		2.85	11.2		1
06958	Manganese	7439-96-5	170		0.0876	0.562		1
10145	Phosphorus	7723-14-0	128		0.629	11.2		1
01662	Potassium	7440-09-7	1,710		20.2	56.2		1
01667	Sodium	7440-23-5	106	J	41.9	112		1
07968	Strontium	7440-24-6	17.3		0.0696	0.562		1
06969	Tin	7440-31-5	2.70	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,350		0.423	1.11		1
10146	Zirconium	7440-67-7	2.86	J	0.943	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0776	J	0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.57		0.0898	0.449		2
06126	Barium	7440-39-3	68.3		0.121	0.449		2
06127	Beryllium	7440-41-7	0.735		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0449	U	0.0449	0.112		2
06131	Chromium	7440-47-3	17.9		0.135	0.449		2
06132	Cobalt	7440-48-4	5.45		0.0225	0.112		2
06133	Copper	7440-50-8	10.7		0.0741	0.449		2
06135	Lead	7439-92-1	6.12		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.446		0.0562	0.112		2
06139	Nickel	7440-02-0	11.6		0.112	0.449		2
06141	Selenium	7782-49-2	0.0524	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0462	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.268		0.0337	0.112		2
06148	Vanadium	7440-62-2	37.1		0.0247	0.112		2
06149	Zinc	7440-66-6	43.7		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0060	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.92	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	324		10.0	10.0		1

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Analysis Report

Sample Description: **SL-205-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257887
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2612 SDG#: DE126-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.91	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 04:55	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 21:06	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 06:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 01:26	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:46	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 01:26	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 01:26	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:46	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:26	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:26	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:26	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:26	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:26	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:26	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:46	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:46	Joanne M Gates	1

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Analysis Report

Sample Description: SL-205-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257887
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2612 SDG#: DE126-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:26	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 10:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/25/2011 09:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201B	04/27/2011 05:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202B	04/28/2011 18:28	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 16:46	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201B	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202B	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102B	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402B	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: TB-041311 Water
SSFL Area IV Collocated Soil Sampling
TB-041311

LLI Sample # WW 6257888
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2613 SDG#: DE126-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-041311 Water
SSFL Area IV Collocated Soil Sampling
TB-041311

LLI Sample # WW 6257888
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2613 SDG#: DE126-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111081AA	04/18/2011	05:47	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111081AA	04/18/2011	10:56	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y111081AA	04/18/2011	05:47	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111081AA	04/18/2011	10:56	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11111B20A	04/22/2011	14:48	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11111B20A	04/22/2011	14:48	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111092AA	Sample number(s): 6257882,6257884-6257886									
Acetone	6.7	U	6.7	8.0	ug/kg	94		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	102		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	104		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	118		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	91		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	89		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	84		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	91		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	105		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	110		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	102		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	92		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	84		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	74		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	98		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	87		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	94		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	89		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	92		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	93		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	99		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	100		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	78		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	97		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	91		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	108		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	100		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	82		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	97		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	90		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	85		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	113		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	102		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	96		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	88		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	91		61-134		
Methylene Chloride	3.4	J	0.24	4.0	ug/kg	110		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	109		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	93		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	93		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	104		77-120		
Toluene	0.11	J	0.08	4.0	ug/kg	101		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	93		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	93		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	88		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	94		80-120		
Batch number: E111041AA	Sample number(s): 6257882,6257884-6257886									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	113	110	70-130	3	30
Batch number: E111081AA	Sample number(s): 6257888									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	114	119	80-123	4	30
Batch number: Y111081AA	Sample number(s): 6257888									
Acetone	6	U	6.	20	ug/l	117	117	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	104	104	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	101	101	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	111	109	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	98	95	80-120	2	30
Bromoform	1	U	1.	5	ug/l	79	79	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	93	90	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	115	115	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	96	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	98	98	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	107	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	81	80	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	99	100	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	108	107	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	96	94	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	98	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	98	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	105	104	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	81	82	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	93	93	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	103	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	105	104	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	99	100	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	98	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	92	91	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	102	79-120	0	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	117	117	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	102	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	101	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	99	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	103	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	89	90	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	103	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	92	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	86	88	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	100	79-120	0	30
Freon 113	2	U	2.	10	ug/l	115	114	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	123*	124*	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	84	86	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	104	105	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	100	101	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	97	98	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	101	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	100	103	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	107	104	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	100	100	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	95	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	102	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	101	101	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	92	93	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	86	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	104	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	102	103	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	104	102	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	116	114	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	102	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	97	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	101	99	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	88	88	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	101	100	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
Batch number: 11106WAD026	Sample number(s): 6257881									
Acenaphthene	0.010	U	0.010	0.050	ug/l	116*	95	74-109	20	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	107	95	70-110	12	30
Anthracene	0.010	U	0.010	0.050	ug/l	107	98	66-111	9	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	111	108	72-114	2	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	110	106	60-127	3	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	118	110	69-123	7	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	110	106	57-131	4	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	111	111	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	78	81	40-138	3	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	105	102	74-131	3	30
Chrysene	0.010	U	0.010	0.050	ug/l	109	105	76-116	4	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	110	105	55-134	5	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	80	75	57-134	6	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	54	57	40-119	6	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	143	123	57-154	15	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	109	104	75-116	5	30
Fluorene	0.010	U	0.010	0.050	ug/l	112	101	75-114	11	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	111	107	69-124	4	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	106	93	71-117	14	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	95	83	75-115	14	30
Naphthalene	0.030	U	0.030	0.050	ug/l	103	88	72-109	15	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	89	66	36-89	30	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	154*	144	57-145	7	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	107	98	76-111	9	30
Pyrene	0.010	U	0.010	0.050	ug/l	108	102	69-118	6	30
Batch number: 11108WAC026	Sample number(s): 6257881									
Aniline	1	U	1.	5	ug/l	92	88	49-101	5	30
Benzidine	20	U	20.	60	ug/l	86	77	34-117	12	30
Benzoic acid	6	U	6.	15	ug/l	40	44	10-69	12	30
Benzyl alcohol	5	U	5.	15	ug/l	87	86	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	98	104	82-117	6	30
Carbazole	1	U	1.	5	ug/l	98	103	81-114	6	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	100	100	70-123	0	30
4-Chloroaniline	1	U	1.	5	ug/l	88	69	42-124	24	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	100	106	74-124	6	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	97	102	77-108	5	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	92	97	62-127	5	30
2-Chloronaphthalene	2	U	2.	5	ug/l	68	68	54-132	1	30
2-Chlorophenol	1	U	1.	5	ug/l	92	95	77-108	3	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	96	99	82-111	3	30
Dibenzofuran	1	U	1.	5	ug/l	97	101	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	82	87	55-118	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	82	88	50-119	7	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	82	85	53-119	4	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	83	66	49-111	22	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	99	105	80-109	6	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	103	104	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	96	100	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	99	102	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	97	103	52-131	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	97	98	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	95	96	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	110	118*	78-116	8	30
Hexachlorobenzene	1	U	1.	5	ug/l	97	103	81-118	6	30
Hexachlorobutadiene	1	U	1.	5	ug/l	88	90	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	90	88	36-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	82	86	52-113	5	30
Isophorone	1	U	1.	5	ug/l	105	108	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	86	86	64-101	0	30
4-Methylphenol	2	U	2.	5	ug/l	81	78	61-103	4	30
2-Nitroaniline	1	U	1.	5	ug/l	101	103	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	100	98	74-113	2	30
4-Nitroaniline	1	U	1.	5	ug/l	82	84	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	104	108	75-109	3	30
2-Nitrophenol	1	U	1.	5	ug/l	100	103	86-120	3	30
4-Nitrophenol	10	U	10.	30	ug/l	49	45	16-78	8	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	102	107	69-110	5	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	101	106	67-136	5	30
Pentachlorophenol	3	U	3.	15	ug/l	101	108	53-110	7	30
Phenol	1	U	1.	5	ug/l	40	36	21-67	9	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	95	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	96	103	79-107	7	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	102	103	81-113	1	30
Batch number: 11109SLD026	Sample number(s): 6257885									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	91		70-130		
Batch number: 11109SLE026	Sample number(s): 6257873-6257876,6257878-6257880,6257882-6257887									
Acenaphthene	33	U	33.	170	ug/kg	98		76-111		
Acenaphthylene	33	U	33.	170	ug/kg	101		75-122		
Aniline	170 U		170.	500	ug/kg	67		34-94		
Anthracene	33	U	33.	170	ug/kg	101		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	41		15-121		
Benzo(a)anthracene	33	U	33.	170	ug/kg	98		73-112		
Benzo(a)pyrene	33	U	33.	170	ug/kg	94		69-122		
Benzo(b)fluoranthene	33	U	33.	170	ug/kg	92		61-127		
Benzo(g,h,i)perylene	33	U	33.	170	ug/kg	92		65-122		
Benzo(k)fluoranthene	33	U	33.	170	ug/kg	92		67-125		
Benzoic acid	170 U		170.	500	ug/kg	96		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	92		79-117		
Butylbenzylphthalate	67	U	67.	170	ug/kg	98		75-115		
Di-n-butylphthalate	67	U	67.	170	ug/kg	104		79-112		
Carbazole	33	U	33.	170	ug/kg	105		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	102		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	50		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	96		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	88		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	93		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	33	U	33.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	33	U	33.	170	ug/kg	90		70-128		
Dibenzofuran	33	U	33.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	89		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	64		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	100		75-111		
Diethylphthalate	67	U	67.	170	ug/kg	102		76-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	101		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	105		70-130		
Dimethylphthalate	67	U	67.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	77		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	82		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	106		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	103		77-111		
bis(2-Ethylhexyl)phthalate	67	U	67.	330	ug/kg	102		75-117		
Fluoranthene	33	U	33.	170	ug/kg	110		78-116		
Fluorene	33	U	33.	170	ug/kg	103		75-116		
Hexachlorobenzene	33	U	33.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachloroethane	33	U	33.	170	ug/kg	89		68-105		
Indeno(1,2,3-cd)pyrene	33	U	33.	170	ug/kg	88		64-119		
Isophorone	33	U	33.	170	ug/kg	95		69-110		
1-Methylnaphthalene	33	U	33.	170	ug/kg	99		74-105		
2-Methylnaphthalene	33	U	33.	170	ug/kg	91		76-105		
2-Methylphenol	67	U	67.	170	ug/kg	95		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	104		66-117		
Naphthalene	33	U	33.	170	ug/kg	94		73-106		
2-Nitroaniline	33	U	33.	170	ug/kg	96		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	96		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	78		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	100		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	95		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	109		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	91		63-107		
N-Nitrosodimethylamine	67	U	67.	170	ug/kg	92		60-106		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	101		67-141		
Di-n-octylphthalate	67	U	67.	170	ug/kg	91		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	81		51-117		
Phenanthrene	33	U	33.	170	ug/kg	101		77-113		
Phenol	33	U	33.	170	ug/kg	94		58-112		
Pyrene	33	U	33.	170	ug/kg	97		75-115		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11109SLG026	Sample number(s): 6257873-6257876,6257878-6257880,6257882-6257887									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	103		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	98		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	96		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	100		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	101		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	111		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	102		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	114		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	87		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	105		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	116		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	101		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	115		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	94		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	98		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	116		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	99		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	100		56-121		
Batch number: 11111B20A	Sample number(s): 6257888									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11112A34A	Sample number(s): 6257885									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69		67-119		
Batch number: 111080010A	Sample number(s): 6257885									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	119		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	117		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
HMX	100 U		100.	300	ug/kg	109		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	96		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	117		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	111		80-120		
PETN	800 U		800.	2,400	ug/kg	126*		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	86		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	119		80-120		
Batch number: 111150004A	Sample number(s): 6257885									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	98		80-126		
Batch number: 111080018A	Sample number(s): 6257879,6257883,6257885									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		85-115		
Batch number: 111090006A	Sample number(s): 6257881									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	86*	94*	35-84	9	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	98	96	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	110	106	56-135	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111090011A	Sample number(s): 6257873-6257876,6257878-6257880,6257882-6257887									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	90	92	36-106	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	95		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1260	0.39	U	0.39	1.7	ug/kg	118		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111090022A	Sample number(s): 6257874,6257878-6257880,6257885									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	93		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C21-C30)	0.93	J	0.40	1.2	mg/kg	98		66-113		
EFH (C30 - C40)	0.92	J	0.40	1.2	mg/kg	85		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	70		66-113		
Batch number: 111050020A	Sample number(s): 6257881									
Diethylene glycol	10	U	10.	100	mg/l	90		78-126		
Ethylene glycol	10	U	10.	100	mg/l	85		80-124		
Propylene glycol	10	U	10.	100	mg/l	85		80-120		
Batch number: 111080028A	Sample number(s): 6257885									
Ethanol	100 U		100.	500	ug/kg	93		71-129		
Isopropanol	100 U		100.	500	ug/kg	93		75-125		
Methanol	100 U		100.	500	ug/kg	93		68-129		
Batch number: 111090001A	Sample number(s): 6257885									
Diethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	105		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Batch number: 111040022A	Sample number(s): 6257885									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 111081848006	Sample number(s): 6257881									
Aluminum	0.0834	U	0.0834	0.200	mg/l	102	101	90-112	1	20
Boron	0.0138	U	0.0138	0.0500	mg/l	98	97	89-110	1	20
Calcium	0.0702	U	0.0702	0.200	mg/l	104	104	90-112	0	20
Iron	0.0522	U	0.0522	0.200	mg/l	104	105	90-112	1	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	101	100	80-120	1	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	102	102	89-110	1	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	103	103	90-110	0	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	104	103	80-120	1	20
Potassium	0.239	U	0.239	0.500	mg/l	102	101	85-115	1	20
Sodium	0.433	U	0.433	1.00	mg/l	101	99	87-114	2	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	103	102	90-110	1	20
Tin	0.0098	U	0.0098	0.0200	mg/l	101	101	90-110	0	20
Titanium	0.0038	U	0.0038	0.0100	mg/l	102	102	90-113	0	20
Zirconium	0.0206	U	0.0206	0.0500	mg/l	104	104	80-120	0	20
Batch number: 111086050002A	Sample number(s): 6257881									
Antimony	0.00030	U	0.00030	0.0010	mg/l	93	100	87-110	8	20
Arsenic	0.00095	U	0.00095	0.0020	mg/l	96	103	86-111	7	20
Beryllium	0.00013	U	0.00013	0.00050	mg/l	103	101	90-112	2	20
Cadmium	0.00020	U	0.00020	0.00050	mg/l	103	103	90-114	0	20
Chromium	0.00060	U	0.00060	0.0020	mg/l	104	106	90-118	1	20
Cobalt	0.00010	U	0.00010	0.00050	mg/l	99	98	87-113	1	20
Copper	0.00038	U	0.00038	0.0020	mg/l	105	105	90-113	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lead	0.000052 U	0.00005 2	0.0010	mg/l	105	103	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	106	90-113	1	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	104	104	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	106	100	89-116	7	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	107	106	89-116	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	97	101	90-116	4	20
Batch number: 111086050002B	Sample number(s): 6257881								
Selenium	0.00025 U	0.00025	0.0020	mg/l	100	97	85-114	3	20
Batch number: 111086050002C	Sample number(s): 6257881								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	104	103	89-115	1	20
Batch number: 111086050002D	Sample number(s): 6257881								
Barium	0.00053 U	0.00053	0.0020	mg/l	107	108	88-113	2	20
Batch number: 111095713004	Sample number(s): 6257881								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	96	94	80-120	3	20
Batch number: 111111026001A	Sample number(s): 6257873-6257880,6257882-6257887								
Antimony	0.0600 U	0.0600	0.200	mg/kg	73		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	98		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	96		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	100		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	100		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	101		82-118		
Copper	0.119 J	0.0660	0.400	mg/kg	105		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	100		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	91		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	99		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	96		83-110		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	107		87-117		
Zinc	0.560 U	0.560	3.00	mg/kg	89		81-112		
Batch number: 111111026001B	Sample number(s): 6257873-6257880,6257882-6257887								
Selenium	0.0400 U	0.0400	0.400	mg/kg	99		83-111		
Batch number: 111111026001C	Sample number(s): 6257873-6257880,6257882-6257887								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	101		78-122		
Batch number: 111111026001D	Sample number(s): 6257873-6257880,6257882-6257887								
Barium	0.108 U	0.108	0.400	mg/kg	95		81-111		
Batch number: 111115708002	Sample number(s): 6257873-6257880,6257882-6257887								
Aluminum	4.98 U	4.98	19.8	mg/kg	84		61-110		
Boron	0.881 U	0.881	4.95	mg/kg	84		78-110		
Calcium	6.07 U	6.07	19.8	mg/kg	92		88-110		
Iron	4.66 U	4.66	19.8	mg/kg	81		61-110		
Lithium	0.30 J	0.22	2.0	mg/kg	99		80-120		
Magnesium	2.51 U	2.51	9.90	mg/kg	90		82-110		
Manganese	0.0772 U	0.0772	0.495	mg/kg	92		89-112		
Phosphorus	1.32 J	0.554	9.90	mg/kg	102		80-120		
Potassium	17.8 U	17.8	49.5	mg/kg	89		78-110		
Sodium	36.9 U	36.9	99.0	mg/kg	90		87-110		
Strontium	0.0614 U	0.0614	0.495	mg/kg	91		86-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Tin	1.42	J	0.990	9.90	mg/kg	90		90-114		
Zirconium	0.832	U	0.832	4.95	mg/kg	101		80-120		
Batch number: 111115711002	Sample number(s): 6257873-6257880,6257882-6257887									
Mercury	0.0029	U	0.0029	0.0999	mg/kg	97		88-123		
Batch number: 111175708001	Sample number(s): 6257873-6257880,6257882-6257887									
Titanium	0.380	U	0.380	1.00	mg/kg	107		80-120		
Batch number: 11104196401A	Sample number(s): 6257881									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	100	100	90-110	0	20
Batch number: 11109196601B	Sample number(s): 6257881									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	94	94	90-110	0	20
Batch number: 11111102201B	Sample number(s): 6257885									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11115196701A	Sample number(s): 6257881									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	90	96	85-115	6	20
Batch number: 11115243201A	Sample number(s): 6257873-6257875,6257877-6257880,6257882-6257887									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	97		80-120		
Batch number: 11116621201A	Sample number(s): 6257873-6257875,6257877-6257880,6257882-6257886									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11116621201B	Sample number(s): 6257887									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
Batch number: 11117621202A	Sample number(s): 6257873-6257875,6257877-6257880,6257882-6257886									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11117621202B	Sample number(s): 6257887									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11104020003A	Sample number(s): 6257881									
18b pH by 9040B						100	100	90-110	0	1
Batch number: 11110039401B	Sample number(s): 6257873									
18a pH by 9045C						100		95-105		
Batch number: 11110039402A	Sample number(s): 6257874,6257877-6257880,6257882-6257886									
18a pH by 9045C						100		95-105		
Batch number: 11110039402B	Sample number(s): 6257887									
18a pH by 9045C						100		95-105		
Batch number: 11110182101B	Sample number(s): 6257873									
32a OR Potential						100		98-102		
Batch number: 11110182102A	Sample number(s): 6257874,6257877-6257880,6257882-6257886									
32a OR Potential						100		98-102		
Batch number: 11110182102B	Sample number(s): 6257887									
32a OR Potential						100		98-102		

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Quality Control Summary

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Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11116162401A	Sample number(s): 6257873-6257880,6257882-6257884,6257886-6257887								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11126162401B	Sample number(s): 6257885								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111092AA	Sample number(s): 6257882,6257884-6257886 UNSPK: P259085								
Acetone	78	80	15-210	6	30				
Benzene	102	99	55-143	1	30				
Bromobenzene	94	89	43-139	2	30				
Bromochloromethane	115	116	60-137	5	30				
Bromodichloromethane	88	87	53-136	3	30				
Bromoform	81	81	38-124	5	30				
Bromomethane	86	80	42-168	3	30				
2-Butanone	74	79	37-163	11	30				
n-Butylbenzene	82	61	30-146	26	30				
sec-Butylbenzene	89	71	33-157	19	30				
tert-Butylbenzene	86	73	41-152	13	30				
Carbon Tetrachloride	92	89	45-153	0	30				
Chlorobenzene	91	85	49-135	3	30				
Chloroethane	87	82	39-152	2	30				
2-Chloroethyl Vinyl Ether	51	58	32-139	16	30				
Chloroform	96	94	61-142	2	30				
Chloromethane	93	94	51-163	5	30				
2-Chlorotoluene	90	79	42-146	9	30				
4-Chlorotoluene	89	78	39-145	10	30				
Chlorotrifluoroethene	99	90	70-130	32*	30				
1,2-Dibromo-3-chloropropane	71	74	30-139	7	30				
Dibromochloromethane	85	85	51-128	3	30				
1,2-Dibromoethane	89	91	54-129	6	30				
Dibromomethane	88	88	57-130	3	30				
1,2-Dichlorobenzene	87	82	36-133	3	30				
1,3-Dichlorobenzene	89	80	34-134	7	30				
1,4-Dichlorobenzene	89	81	35-136	5	30				
Dichlorodifluoromethane	82	80	26-151	2	30				
1,1-Dichloroethane	98	96	63-142	3	30				
1,2-Dichloroethane	87	87	68-131	3	30				
1,1-Dichloroethene	113	113	61-149	4	30				
cis-1,2-Dichloroethene	98	95	60-136	1	30				
trans-1,2-Dichloroethene	102	99	59-142	1	30				
1,2-Dichloropropane	96	95	62-135	3	30				
1,3-Dichloropropane	90	91	58-129	4	30				
2,2-Dichloropropane	83	83	53-147	4	30				
1,1-Dichloropropene	96	90	54-145	2	30				
cis-1,3-Dichloropropene	84	84	51-131	5	30				

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Quality Control Summary

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Reported: 05/09/11 at 08:57 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
trans-1,3-Dichloropropene	77	78	49-129	6	30				
Ethylbenzene	88	78	44-141	9	30				
Freon 113	120	122	56-156	6	30				
Freon 133a	114	111	61-131	25	30				
Hexachlorobutadiene	75	57	10-155	24	30				
2-Hexanone	75	81	32-160	12	30				
Isopropylbenzene	86	72	38-144	14	30				
p-Isopropyltoluene	86	67	29-152	20	30				
Methyl Tertiary Butyl Ether	80	84	55-129	9	30				
4-Methyl-2-pentanone	75	80	46-139	10	30				
Methylene Chloride	103	104	61-141	5	30				
n-Propylbenzene	92	79	39-157	11	30				
Styrene	86	77	35-134	7	30				
1,1,1,2-Tetrachloroethane	87	84	52-130	1	30				
1,1,2,2-Tetrachloroethane	91	94	40-152	7	30				
Tetrachloroethene	91	81	42-149	8	30				
Toluene	96	89	50-146	3	30				
1,2,3-Trichlorobenzene	82	80	10-140	0	30				
1,2,4-Trichlorobenzene	76	72	10-136	1	30				
1,1,1-Trichloroethane	92	92	64-142	4	30				
1,1,2-Trichloroethane	92	92	54-139	4	30				
Trichloroethene	94	88	53-144	2	30				
Trichlorofluoromethane	102	100	47-163	2	30				
1,2,3-Trichloropropane	87	91	45-154	8	30				
1,2,4-Trimethylbenzene	89	77	37-149	11	30				
1,3,5-Trimethylbenzene	90	77	38-150	12	30				
Vinyl Chloride	95	97	50-154	6	30				
m+p-Xylene	88	77	44-137	10	30				
o-Xylene	85	77	42-137	6	30				
Batch number: E111041AA	Sample number(s): 6257882,6257884-6257886 UNSPK: P255761								
1,4-Dioxane	89	98	70-130	13	30				
Batch number: 11109SLD026	Sample number(s): 6257885 UNSPK: P09LDUS								
N-Nitrosodimethylamine	59*	62*	70-130	4	30				
Batch number: 11109SLE026	Sample number(s): 6257873-6257876,6257878-6257880,6257882-6257887 UNSPK: 6257874								
Acenaphthene	98	102	75-115	4	30				
Acenaphthylene	100	104	81-110	4	30				
Aniline	72	73	35-95	1	30				
Anthracene	100	105	75-115	5	30				
Benzidine	30*	46	35-141	41*	30				
Benzo(a)anthracene	101	104	65-122	3	30				
Benzo(a)pyrene	92	98	57-126	7	30				
Benzo(b)fluoranthene	84	87	59-125	3	30				
Benzo(g,h,i)perylene	96	102	59-127	6	30				
Benzo(k)fluoranthene	91	95	56-132	5	30				
Benzoic acid	46	41	10-173	12	30				
Benzyl alcohol	94	98	67-115	4	30				
4-Bromophenyl-phenylether	95	99	67-129	5	30				
Butylbenzylphthalate	108	110	73-134	2	30				
Di-n-butylphthalate	102	108	67-123	6	30				
Carbazole	100	105	64-120	5	30				

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Quality Control Summary

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Reported: 05/09/11 at 08:57 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chloro-3-methylphenol	98	100	76-110	2	30				
4-Chloroaniline	63	65	23-95	4	30				
bis(2-Chloroethoxy)methane	95	98	75-104	3	30				
bis(2-Chloroethyl)ether	96	101	60-116	5	30				
bis(2-Chloroisopropyl)ether	89	91	55-142	2	30				
2-Chloronaphthalene	103	103	50-141	0	30				
2-Chlorophenol	99	104	73-121	5	30				
4-Chlorophenyl-phenylether	95	98	80-109	2	30				
Chrysene	101	102	62-128	1	30				
Dibenz(a,h)anthracene	96	103	65-125	8	30				
Dibenzofuran	98	102	71-112	4	30				
1,2-Dichlorobenzene	90	94	66-108	4	30				
1,3-Dichlorobenzene	90	94	63-109	5	30				
1,4-Dichlorobenzene	91	95	70-100	4	30				
3,3'-Dichlorobenzidine	85	91	16-119	6	30				
2,4-Dichlorophenol	101	102	78-117	2	30				
Diethylphthalate	96	98	66-118	3	30				
2,4-Dimethylphenol	94	99	78-110	6	30				
3,5-Dimethylphenol	98	103	70-130	5	30				
Dimethylphthalate	94	97	64-118	4	30				
4,6-Dinitro-2-methylphenol	43	45	24-116	5	30				
2,4-Dinitrophenol	28	31	20-143	13	30				
2,4-Dinitrotoluene	96	101	73-113	5	30				
2,6-Dinitrotoluene	93	99	69-123	6	30				
1,2-Diphenylhydrazine	106	112	71-129	5	30				
bis(2-Ethylhexyl)phthalate	112	115	63-122	2	30				
Fluoranthene	104	108	73-112	4	30				
Fluorene	100	103	77-111	3	30				
Hexachlorobenzene	95	99	77-114	4	30				
Hexachlorobutadiene	93	95	62-120	3	30				
Hexachlorocyclopentadiene	29	33	10-153	11	30				
Hexachloroethane	81	83	57-109	2	30				
Indeno(1,2,3-cd)pyrene	95	101	61-126	6	30				
Isophorone	94	97	73-102	3	30				
1-Methylnaphthalene	98	99	73-112	1	30				
2-Methylnaphthalene	92	94	76-114	3	30				
2-Methylphenol	95	98	75-111	4	30				
4-Methylphenol	105	107	71-111	2	30				
Naphthalene	95	98	72-116	2	30				
2-Nitroaniline	102	108	67-125	6	30				
3-Nitroaniline	96	100	59-122	4	30				
4-Nitroaniline	90	78	52-112	14	30				
Nitrobenzene	98	102	72-106	4	30				
2-Nitrophenol	94	96	74-115	3	30				
4-Nitrophenol	95	99	54-113	3	30				
N-Nitroso-di-n-propylamine	91	94	60-116	3	30				
N-Nitrosodimethylamine	90	94	47-116	4	30				
N-Nitrosodiphenylamine	101	108	86-145	7	30				
Di-n-octylphthalate	95	102	56-126	7	30				
Pentachlorophenol	68	75	28-127	10	30				
Phenanthrene	99	103	65-125	4	30				
Phenol	94	96	58-126	1	30				
Pyrene	100	104	74-126	4	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trichlorobenzene	97	101	72-115	4	30				
2,4,5-Trichlorophenol	101	104	78-109	3	30				
2,4,6-Trichlorophenol	101	106	77-115	5	30				
Batch number: 11109SLG026	Sample number(s): 6257873-6257876,6257878-6257880,6257882-6257887 UNSPK: 6257874								
Acenaphthene	106*	106*	63-105	0	30				
Acenaphthylene	100	100	67-114	0	30				
Anthracene	97	100	60-122	3	30				
Benzo(a)anthracene	95	108	59-128	12	30				
Benzo(a)pyrene	88	108	45-138	18	30				
Benzo(b)fluoranthene	88	110	43-155	17	30				
Benzo(g,h,i)perylene	52	54	33-141	3	30				
Benzo(k)fluoranthene	98	118	42-144	17	30				
Butylbenzylphthalate	119	448*	57-173	116*	30				
Di-n-butylphthalate	119	120	65-148	1	30				
Chrysene	83	103	48-134	17	30				
Dibenz(a,h)anthracene	79	77	22-133	2	30				
Diethylphthalate	93	93	70-136	0	30				
Dimethylphthalate	107	106	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	60	109	39-167	26	30				
Fluoranthene	97	116	26-166	14	30				
Fluorene	104	105	66-122	1	30				
Indeno(1,2,3-cd)pyrene	73	73	21-143	0	30				
1-Methylnaphthalene	98	100	72-123	2	30				
2-Methylnaphthalene	89	90	64-103	2	30				
Naphthalene	94	96	61-102	2	30				
N-Nitrosodimethylamine	104	100	48-113	3	30				
Di-n-octylphthalate	140	154	40-192	10	30				
Phenanthrene	96	99	12-165	3	30				
Pyrene	81	101	15-153	18	30				
Batch number: 11112A34A	Sample number(s): 6257885 UNSPK: P264845								
9a TPH by EPA 8015B Gas C5-C12	62	61	39-118	7	30				
Batch number: 111080010A	Sample number(s): 6257885 UNSPK: P255761								
4-Amino-2,6-Dinitrotoluene	89	105	80-127	17	50				
2-Amino-4,6-Dinitrotoluene	90	104	80-137	15	50				
1,3-Dinitrobenzene	65	80	38-166	19	50				
2,4-Dinitrotoluene	78*	91	80-131	15	50				
2,6-Dinitrotoluene	86	100	80-127	15	50				
HMX	86	105	63-128	20	50				
Nitrobenzene	91	101	80-125	10	50				
Nitroglycerin	84	100	80-120	17	50				
2-Nitrotoluene	95	107	80-122	12	50				
3-Nitrotoluene	98	111	72-119	12	50				
4-Nitrotoluene	94	107	80-125	12	50				
PETN	102	122*	80-121	17	50				
RDX	108	118	75-129	9	50				
Tetryl	47*	57	55-174	19	50				
1,3,5-Trinitrobenzene	47*	65*	82-126	33	50				
2,4,6-Trinitrotoluene	53*	74*	82-130	32	50				
Batch number: 111150004A	Sample number(s): 6257885 UNSPK: P255761								

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
25a Formaldehyde 8315A	88	97	80-120	3	50				
Batch number: 111080018A	Sample number(s): 6257879,6257883,6257885 UNSPK: P255784								
6a Perchlorate EPA 6850	104	105	80-120	1	20				
Batch number: 111090011A	Sample number(s): 6257873-6257876,6257878-6257880,6257882-6257887 UNSPK: 6257874								
PCB-1016	0*	0*	29-146	0	50				
PCB-1260	0*	0*	39-149	0	50				
Batch number: 111090022A	Sample number(s): 6257874,6257878-6257880,6257885 UNSPK: 6257874								
EFH (C12-C14)	101	84	49-123	16	20				
EFH (C15-C20)	106	83	49-123	10	20				
EFH (C21-C30)	-11 (2)	-128 (2)	49-123	21*	20				
EFH (C30 - C40)	-1743 (2)	-1815 (2)	49-123	9	20				
EFH (C8-C11)	73	61	49-123	17	20				
Batch number: 111050020A	Sample number(s): 6257881 UNSPK: 6257881								
Diethylene glycol	85	100	83-130	16	20				
Ethylene glycol	80*	85*	89-125	6	20				
Propylene glycol	90*	90*	91-128	0	20				
Batch number: 111080028A	Sample number(s): 6257885 UNSPK: P259054								
Ethanol	70	71	48-130	1	20				
Isopropanol	77	77	12-149	1	20				
Methanol	64	64	43-138	0	20				
Batch number: 111090001A	Sample number(s): 6257885 UNSPK: P259054								
Diethylene glycol	77	89	59-109	14	20				
Ethylene glycol	84	93	63-107	9	20				
Propylene glycol	90	96	63-107	6	20				
Batch number: 111040022A	Sample number(s): 6257885 UNSPK: P255761								
m-Terphenyl	80	79	75-125	1	20				
o-Terphenyl	92	95	75-125	2	20				
p-Terphenyl	75	76	75-125	0	20				
Batch number: 111111026001A	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Antimony	34*	37*	75-125	3	20	0.575	0.484	17 (1)	20
Arsenic	133*	134*	75-125	0	20	6.10	5.50	10	20
Beryllium	108	105	75-125	1	20	0.822	0.664	21*	20
Cadmium	151*	115	75-125	14	20	1.10	1.04	6	20
Chromium	120	158*	75-125	8	20	33.7	25.9	26*	20
Cobalt	129*	116	75-125	9	20	9.07	6.85	28*	20
Copper	63 (2)	117 (2)	75-125	9	20	48.6	35.8	30*	20
Lead	196 (2)	120 (2)	75-125	7	20	26.4	19.2	32*	20
Nickel	146*	159*	75-125	3	20	24.2	18.9	25*	20
Silver	124	113	75-125	10	20	0.253	0.217	15 (1)	20
Thallium	124	127*	75-125	1	20	0.289	0.234	21* (1)	20
Vanadium	140 (2)	83 (2)	75-125	9	20	55.5	43.7	24*	20
Zinc	313 (2)	214 (2)	75-125	5	20	155	125	21*	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111111026001B	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Selenium	111	110	75-125	1	20	0.183 J	0.143 J	25* (1)	20
Batch number: 111111026001C	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Molybdenum	117	112	75-125	4	20	0.661	0.506	27*	20
Batch number: 111111026001D	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Barium	-142 (2)	11 (2)	75-125	9	20	168	125	29*	20
Batch number: 111115708002	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Aluminum	2687 (2)	2319 (2)	75-125	3	20	23,100	22,700	2	20
Boron	93	95	84-115	2	20	20.0	19.8	1 (1)	20
Calcium	588 (2)	612 (2)	75-125	0	20	22,800	22,800	0	20
Iron	1156 (2)	1231 (2)	75-125	0	20	25,100	25,000	0	20
Lithium	103	104	82-114	1	20	21.3	21.1	1	20
Magnesium	345 (2)	329 (2)	75-125	0	20	6,730	6,660	1	20
Manganese	121 (2)	70 (2)	75-125	6	20	377	398	6	20
Phosphorus	-36 (2)	136 (2)	75-125	12	20	1,340	1,290	4	20
Potassium	131 (2)	148 (2)	75-125	2	20	5,660	5,580	1	20
Sodium	96	98	75-125	2	20	186	179	4 (1)	20
Strontium	97	103	75-115	3	20	93.7	93.4	0	20
Tin	84	83	80-110	0	20	2.62 J	2.33 J	12 (1)	20
Zirconium	90	90	75-125	0	20	6.01	6.28	4 (1)	20
Batch number: 111115711002	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Mercury	88	92	65-135	3	20	0.0741 J	0.156	71* (1)	20
Batch number: 111175708001	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Titanium	369 (2)	342 (2)	75-125	1	20	1,150	1,190	3	20
Batch number: 11111102201B	Sample number(s): 6257885 UNSPK: P256863 BKG: P256863								
17a Cyanide by 9012B	107		75-125			0.17 U	0.17 U	0 (1)	20
Batch number: 11115243201A	Sample number(s): 6257873-6257875,6257877-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
3a Cr VI by EPA 7199	83		75-125			0.55 J	0.35 J	45* (1)	20
Batch number: 11116621201A	Sample number(s): 6257873-6257875,6257877-6257880,6257882-6257886 UNSPK: 6257874 BKG: 6257874								
11a Anions by 300.0 - Fluoride	62*		80-120			2.2	2.3	7 (1)	20
11a Anions by 300.0 - Nitrate	94		80-120			2.7	2.6	1 (1)	20
Batch number: 11116621201B	Sample number(s): 6257887 UNSPK: 6257887 BKG: 6257887								
11a Anions by 300.0 - Fluoride	55*		80-120			1.3	2.3	54* (1)	20
Batch number: 11117621202A	Sample number(s): 6257873-6257875,6257877-6257880,6257882-6257886 UNSPK: 6257874 BKG: 6257874								
7a Perchlorate EPA 314.0	116		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11117621202B	Sample number(s): 6257887 UNSPK: 6257887 BKG: 6257887								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
7a Perchlorate EPA 314.0	89		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11110039401B	Sample number(s): 6257873 BKG: 6257873										
18a pH by 9045C						8.21		8.22		0	1
Batch number: 11110039402A	Sample number(s): 6257874,6257877-6257880,6257882-6257886 BKG: 6257874										
18a pH by 9045C						8.27		8.28		0	1
Batch number: 11110039402B	Sample number(s): 6257887 BKG: 6257887										
18a pH by 9045C						6.91		6.93		0	1
Batch number: 11110182101B	Sample number(s): 6257873 BKG: P257477										
32a OR Potential						275		275		0	6
Batch number: 11110182102A	Sample number(s): 6257874,6257877-6257880,6257882-6257886 BKG: 6257874										
32a OR Potential						312		313		0	6
Batch number: 11110182102B	Sample number(s): 6257887 BKG: P258902										
32a OR Potential						264		267		1	6
Batch number: 11116162401A	Sample number(s): 6257873-6257880,6257882-6257884,6257886-6257887 BKG: 6257874										
28a Moisture Content by 160.3						15.2		15.0		2	20
Moisture Content by 160.3						15.2		15.0		2	20
Moisture Content by 160.3						15.2		15.0		2	20
Batch number: 11126162401B	Sample number(s): 6257885 BKG: 6257885										
Moisture Content by 160.3						11.5		11.9		4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111092AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6257882	97	97	100	88
6257884	96	96	100	88
6257885	98	102	99	89
6257886	97	96	100	87
Blank	98	100	101	90
LCS	99	99	103	95
MS	97	96	103	96
MSD	96	99	103	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111041AA

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Surrogate Quality Control

	Toluene-d8
6257882	97
6257884	97
6257885	96
6257886	97
Blank	97
LCS	98
LCSD	98
MS	96
MSD	96
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111081AA

	Toluene-d8
6257888	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111081AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6257888	106	101	103	94
Blank	106	101	102	94
LCS	105	103	105	100
LCSD	104	102	104	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11106WAD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6257881	119	99	111
Blank	113	104	115
LCS	117	101	106
LCSD	99	90	101
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11108WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6257881	60	37	100	102	94	87
Blank	59	37	97	101	95	86
LCS	64	41	96	103	96	88
LCSD	61	39	96	109	98	91
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Surrogate Quality Control

Analysis Name: 15a NDMA by 1625C
Batch number: 11109SLD026

	N-Nitrosodimethylamine-d6
6257885	112
Blank	79
LCS	83
MS	819*
MSD	831*
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11109SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6257873	100	104	95	95	98	86
6257874	96	99	90	91	92	86
6257875	100	104	95	97	96	89
6257876	103	107	99	99	99	90
6257878	99	104	97	96	99	87
6257879	100	103	94	96	98	89
6257880	96	100	91	93	94	87
6257882	91	96	86	90	90	83
6257883	91	96	85	90	89	82
6257884	95	99	92	93	95	86
6257885	93	99	87	92	91	85
6257886	92	96	87	90	90	81
6257887	87	92	87	85	83	83
Blank	88	93	88	89	91	80
LCS	102	105	108	98	97	86
MS	100	104	95	97	96	89
MSD	103	107	99	99	99	90
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11109SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6257873	105	99	118
6257874	105	99	97
6257875	107	97	95
6257876	105	101	109
6257878	104	97	112
6257879	109	102	119
6257880	101	92	103
6257882	94	90	100
6257883	93	90	101
6257884	99	91	101
6257885	95	92	101
6257886	95	90	95
6257887	97	90	97
Blank	101	96	111
LCS	102	97	103

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Surrogate Quality Control

MS	107	97	95
MSD	105	101	109
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11111B20A

	Trifluorotoluene-F
6257888	74
Blank	73
LCS	115
LCSD	115
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11112A34A

	Trifluorotoluene-F
6257885	74
Blank	91
LCS	89
MS	79
MSD	73
Limits:	61-122

Analysis Name: 16a Energetics by 8330A
Batch number: 111080010A

	2-Nitro-m-xylene
6257885	124
Blank	113
LCS	118
LCSD	110
MS	90
MSD	112
Limits:	80-146

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111090006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6257881	107	101
Blank	108	103
LCS	111	120
LCSD	111	119
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111090011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6257873	110	157*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Surrogate Quality Control

6257874	108	155*
6257875	98	130*
6257876	99	136*
6257878	157*	228*
6257879	111	143*
6257880	104	102
6257882	100	107
6257883	101	106
6257884	106	108
6257885	95	99
6257886	103	108
6257887	94	101
Blank	102	102
LCS	97	105
LCSD	99	107
MS	98	130*
MSD	99	136*
Limits:	53-139	53-142

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111150004A

	Butyraldehyde
6257885	96
Blank	100
LCS	101
MS	96
MSD	95
Limits:	64-126

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111040022A

	n-Triacontane-d62
6257885	71
Blank	82
LCS	77
MS	70
MSD	83
Limits:	50-150

Analysis Name: 21b Glycols by 8015B
Batch number: 111050020A

	Tetramethylene glycol
6257881	86
Blank	84
LCS	91
MS	109
MSD	94
Limits:	77-119

Analysis Name: 19a Alcohols by 8015B

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Surrogate Quality Control

Batch number: 111080028A

	Acetone
6257885	84
Blank	96
LCS	95
MS	78
MSD	79
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111090001A

	Tetramethylene glycol
6257885	53
Blank	92
LCS	105
MS	90
MSD	86
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111090022A

	Chlorobenzene	Orthoterphenyl
6257874	71	86
6257878	63	89
6257879	64	85
6257880	67	81
6257885	51	63
Blank	64	67
LCS	66	75
MS	68	73
MSD	66	71
Limits:	37-125	47-145

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(2) The unspiked result was more than four times the spike added.

acct#13013 Ap# 1242142 sample# 6257873-88

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
DUP02-SA8N-QC-041311	04.13.11	1015	SOIL	NONE	1-16 oz jar		X	X			X	X	X	X											
DUP02-SA8N-QC-041311	04.13.11	1015	SOIL	NONE	1 SS sleeve				X	X															
SL-027-SA8N-SS-0.0-0.5MS	04.13.11	1010	SOIL	NONE	2-16 oz jars		X	X			X	X	X	X											MS/MSD sample
SL-027-SA8N-SS-0.0-0.5MS	04.13.11	1010	SOIL	NONE	2 SS sleeves				X	X															MS/MSD sample
SL-027-SA8N-SS-0.0-0.5	04.13.11	1010	SOIL	NONE	1-16 oz jar											X									
SL-028-SA8N-SS-0.0-0.5	04.13.11	1030	SOIL	NONE	2-16 oz jars		X	X			X	X	X	X		X									
SL-028-SA8N-SS-0.0-0.5	04.13.11	1030	SOIL	NONE	1 SS sleeve				X	X															
SL-032-SA8N-SS-0.0-0.5	04.13.11	1255	SOIL	NONE	2-16 oz jars		X	X			X	X	X	X	X	X									
SL-032-SA8N-SS-0.0-0.5	04.13.11	1255	SOIL	NONE	1 SS sleeve				X	X															
SL-046-SA8N-SS-0.0-0.5	04.13.11	0840	SOIL	NONE	2-16 oz jars		X	X			X	X	X	X		X									
SL-046-SA8N-SS-0.0-0.5	04.13.11	0840	SOIL	NONE	1 SS sleeve				X	X															
Relinquished by: (Signature)	Date/Time 04/13/2011 / 1700		Received for Laboratory by: (Signature) 4/14/11 905																					Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature)	Date/Time		Airbill No.(s) 8700 5932 3124; 8700 5932 3146 8700 5932 3157																						

Acct# 13013 Gp# 1242142 Sample# 6257873-88

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Stef J Butch																									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
EB02-SA8N-SS-041311	04.13.11	1215	WATER	NONE	7-1 liter ambers			X	X	X															
EB02-SA8N-SS-041311	04.13.11	1215	WATER	NONE	1-500 mL poly		X				X	X	X												
EB02-SA8N-SS-041311	04.13.11	1215	WATER	HNO3	1-500 mL poly	X																			
EB03-SA8N-SS-041311	04.13.11	1220	WATER	NONE	3-40 ml vials																		X		
Relinquished by: (Signature)	Date/Time 04/13/2011 / 1700		Received for Laboratory by: (Signature) 4/14/11 905																						Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8700 5932 3124; 8700 5932 3146 8700 5932 3157																						

acct#13013 Gp# 1242142 sample# 6257873-88

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tephenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-060-SA5A-SB-4.5	04.13.11	1600	SOIL	NONE	4-Encores										X	X											
SL-060-SA5A-SB-4.0-5.0	04.13.11	1605	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-060-SA5A-SB-8.0-9.0	04.13.11	1611	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-061-SA5A-SB-4.5	04.13.11	1424	SOIL	NONE	4-Encores										X	X											
SL-061-SA5A-SB-4.0-5.0	04.13.11	1428	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-204-SA5A-SB-4.5	04.13.11	0915	SOIL	NONE	5-Encores										X	X	X										
SL-204-SA5A-SB-4.0-5.0	04.13.11	0919	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-205-SA5A-SB-4.5	04.13.11	1110	SOIL	NONE	4-Encores										X	X											
SL-205-SA5A-SB-4.0-5.0	04.13.11	1114	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-205-SA5A-SB-8.0-9.0	04.13.11	1122	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
TB-041311	04.13.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/13/2011 / 1700		Received for Laboratory by: (Signature) Yang Yi 4/14/11 905																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8700 5932 3124; 8700 5932 3146 8700 5932 3157																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/15/2011
Group Number: 1242329
SDG: DX071
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-040-SA8N-SS-0.0-0.5 Soil	6259072
SL-078-SA8N-SS-0.0-0.5 Soil	6259073
SL-079-SA8N-SS-0.0-0.5 Soil	6259074
SL-082-SA8N-SS-0.0-0.5 Soil	6259075
SL-089-SA8N-SS-0.0-0.5 Soil	6259076
SL-090-SA8N-SS-0.0-0.5 Soil	6259077
SL-091-SA8N-SS-0.0-0.5 Soil	6259078
SL-130-SA8N-SS-0.0-0.5 Soil	6259079
SL-133-SA8N-SS-0.0-0.5 Soil	6259080
SL-133-SA8N-SS-0.0-0.5MS Soil	6259081
SL-133-SA8N-SS-0.0-0.5MSD Soil	6259082
SL-134-SA8N-SS-0.0-0.5 Soil	6259083

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259072
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DX071-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259072
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DX071-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0349	JQ	0.0227	1.08	1
11031	12378-PeCDD	40321-76-4	0.157	JB	0.0325	5.38	1
11031	123478-HxCDD	39227-28-6	0.183	JB	0.0746	5.38	1
11031	123678-HxCDD	57653-85-7	1.03	JB	0.0731	5.38	1
11031	123789-HxCDD	19408-74-3	0.769	JB	0.0686	5.38	1
11031	1234678-HpCDD	35822-46-9	20.7	B	0.0744	5.38	1
11031	OCDD	3268-87-9	220	B	0.107	10.8	1
11031	2378-TCDF	51207-31-9	0.109	JQ	0.0635	1.08	1
11031	12378-PeCDF	57117-41-6	0.374	JB	0.0358	5.38	1
11031	23478-PeCDF	57117-31-4	0.624	JB	0.0338	5.38	1
11031	123478-HxCDF	70648-26-9	0.119	JBQ	0.0718	5.38	1
11031	123678-HxCDF	57117-44-9	0.279	JB	0.0580	5.38	1
11031	123789-HxCDF	72918-21-9	0.442	JB	0.0512	5.38	1
11031	234678-HxCDF	60851-34-5	0.379	JB	0.0474	5.38	1
11031	1234678-HpCDF	67562-39-4	2.67	JB	0.0495	5.38	1
11031	1234789-HpCDF	55673-89-7	0.264	JB	0.0521	5.38	1
11031	OCDF	39001-02-0	7.48	JB	0.0562	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	45	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259072
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DX071-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259072
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DX071-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/22/2011 18:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401B	04/21/2011 20:48	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-078-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259073
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD078 SDG#: DX071-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-078-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259073
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD078 SDG#: DX071-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0183	U	0.0183	1.15	1
11031	12378-PeCDD	40321-76-4	0.0403	JBQ	0.0255	5.75	1
11031	123478-HxCDD	39227-28-6	0.0208	U	0.0208	5.75	1
11031	123678-HxCDD	57653-85-7	0.106	JB	0.0214	5.75	1
11031	123789-HxCDD	19408-74-3	0.124	JB	0.0206	5.75	1
11031	1234678-HpCDD	35822-46-9	1.14	JB	0.0454	5.75	1
11031	OCDD	3268-87-9	10.6	JB	0.0542	11.5	1
11031	2378-TCDF	51207-31-9	0.130	JQ	0.0809	1.15	1
11031	12378-PeCDF	57117-41-6	0.746	JB	0.0334	5.75	1
11031	23478-PeCDF	57117-31-4	0.211	JB	0.0328	5.75	1
11031	123478-HxCDF	70648-26-9	0.376	JB	0.0249	5.75	1
11031	123678-HxCDF	57117-44-9	0.0915	JB	0.0205	5.75	1
11031	123789-HxCDF	72918-21-9	0.0857	JB	0.0243	5.75	1
11031	234678-HxCDF	60851-34-5	0.0607	JBQ	0.0198	5.75	1
11031	1234678-HpCDF	67562-39-4	0.345	JB	0.0197	5.75	1
11031	1234789-HpCDF	55673-89-7	0.0269	U	0.0269	5.75	1
11031	OCDF	39001-02-0	0.681	JBQ	0.0513	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-078-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259073
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD078 SDG#: DX071-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-078-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259073
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD078 SDG#: DX071-02

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/22/2011 19:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-079-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259074
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX071-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-079-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259074
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX071-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0453	J	0.0196	1.21	1
11031	12378-PeCDD	40321-76-4	0.350	JBQ	0.0386	6.03	1
11031	123478-HxCDD	39227-28-6	0.401	JB	0.0839	6.03	1
11031	123678-HxCDD	57653-85-7	1.48	JB	0.0821	6.03	1
11031	123789-HxCDD	19408-74-3	1.44	JB	0.0755	6.03	1
11031	1234678-HpCDD	35822-46-9	22.3	B	0.0711	6.03	1
11031	OCDD	3268-87-9	180	B	0.0601	12.1	1
11031	2378-TCDF	51207-31-9	0.733	JQ	0.0874	1.21	1
11031	12378-PeCDF	57117-41-6	0.610	JBQ	0.0358	6.03	1
11031	23478-PeCDF	57117-31-4	1.15	JB	0.0368	6.03	1
11031	123478-HxCDF	70648-26-9	0.901	JB	0.0724	6.03	1
11031	123678-HxCDF	57117-44-9	0.509	JB	0.0559	6.03	1
11031	123789-HxCDF	72918-21-9	0.785	JB	0.0481	6.03	1
11031	234678-HxCDF	60851-34-5	0.535	JB	0.0450	6.03	1
11031	1234678-HpCDF	67562-39-4	3.29	JB	0.0289	6.03	1
11031	1234789-HpCDF	55673-89-7	0.324	JB	0.0318	6.03	1
11031	OCDF	39001-02-0	6.41	JB	0.0398	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-079-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259074
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX071-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-079-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259074
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX071-03

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/22/2011 23:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-082-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259075
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX071-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-082-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259075
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX071-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0262	JQ	0.0233	1.10	1
11031	12378-PeCDD	40321-76-4	0.341	JB	0.0532	5.51	1
11031	123478-HxCDD	39227-28-6	0.303	JB	0.0769	5.51	1
11031	123678-HxCDD	57653-85-7	1.65	JB	0.0778	5.51	1
11031	123789-HxCDD	19408-74-3	2.01	JB	0.0724	5.51	1
11031	1234678-HpCDD	35822-46-9	15.5	B	0.0569	5.51	1
11031	OCDD	3268-87-9	138	B	0.0496	11.0	1
11031	2378-TCDF	51207-31-9	18.9		0.379	1.10	1
11650	2378-TCDF-Conf	51207-31-9	16.4	B	0.0573	1.10	1
11031	12378-PeCDF	57117-41-6	8.88	B	0.0959	5.51	1
11031	23478-PeCDF	57117-31-4	1.83	JB	0.0972	5.51	1
11031	123478-HxCDF	70648-26-9	3.63	JB	0.113	5.51	1
11031	123678-HxCDF	57117-44-9	0.931	JB	0.0839	5.51	1
11031	123789-HxCDF	72918-21-9	0.927	JB	0.0787	5.51	1
11031	234678-HxCDF	60851-34-5	0.571	JB	0.0673	5.51	1
11031	1234678-HpCDF	67562-39-4	3.31	JB	0.0287	5.51	1
11031	1234789-HpCDF	55673-89-7	0.380	JBQ	0.0345	5.51	1
11031	OCDF	39001-02-0	4.86	JB	0.0360	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	79	25 - 164
13C12-2378-TCDF-Conf	68	24 - 169
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-082-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259075
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX071-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-082-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259075
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX071-04

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/23/2011 00:28	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11108001	04/29/2011 04:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-089-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259076
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX071-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-089-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259076
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX071-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0169	U	0.0169	1.17	1
11031	12378-PeCDD	40321-76-4	0.127	JB	0.0248	5.83	1
11031	123478-HxCDD	39227-28-6	0.0596	JB	0.0391	5.83	1
11031	123678-HxCDD	57653-85-7	0.810	JB	0.0392	5.83	1
11031	123789-HxCDD	19408-74-3	1.13	JB	0.0360	5.83	1
11031	1234678-HpCDD	35822-46-9	4.15	JB	0.0427	5.83	1
11031	OCDD	3268-87-9	37.7	B	0.0472	11.7	1
11031	2378-TCDF	51207-31-9	0.0753	JQ	0.0281	1.17	1
11031	12378-PeCDF	57117-41-6	0.250	JB	0.0184	5.83	1
11031	23478-PeCDF	57117-31-4	0.219	JB	0.0184	5.83	1
11031	123478-HxCDF	70648-26-9	0.0678	JBQ	0.0358	5.83	1
11031	123678-HxCDF	57117-44-9	0.160	JBQ	0.0262	5.83	1
11031	123789-HxCDF	72918-21-9	1.01	JB	0.0258	5.83	1
11031	234678-HxCDF	60851-34-5	0.154	JB	0.0219	5.83	1
11031	1234678-HpCDF	67562-39-4	0.653	JB	0.0233	5.83	1
11031	1234789-HpCDF	55673-89-7	0.0753	JBQ	0.0293	5.83	1
11031	OCDF	39001-02-0	1.18	JB	0.0352	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259076
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX071-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259076
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX071-05

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/23/2011 01:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-090-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA8N-SS-0.0-0.5

LLI Sample # SW 6259077
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX071-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-090-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA8N-SS-0.0-0.5

LLI Sample # SW 6259077
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX071-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0196	J	0.0134	1.18	1
11031	12378-PeCDD	40321-76-4	0.217	JBQ	0.0251	5.91	1
11031	123478-HxCDD	39227-28-6	0.144	JBQ	0.0457	5.91	1
11031	123678-HxCDD	57653-85-7	1.28	JB	0.0400	5.91	1
11031	123789-HxCDD	19408-74-3	1.52	JB	0.0346	5.91	1
11031	1234678-HpCDD	35822-46-9	12.3	B	0.0421	5.91	1
11031	OCDD	3268-87-9	106	B	0.0490	11.8	1
11031	2378-TCDF	51207-31-9	0.172	JQ	0.0338	1.18	1
11031	12378-PeCDF	57117-41-6	0.247	JBQ	0.0160	5.91	1
11031	23478-PeCDF	57117-31-4	0.395	JB	0.0167	5.91	1
11031	123478-HxCDF	70648-26-9	0.146	JB	0.0534	5.91	1
11031	123678-HxCDF	57117-44-9	0.259	JB	0.0372	5.91	1
11031	123789-HxCDF	72918-21-9	0.798	JB	0.0233	5.91	1
11031	234678-HxCDF	60851-34-5	0.208	JB	0.0200	5.91	1
11031	1234678-HpCDF	67562-39-4	2.43	JB	0.0370	5.91	1
11031	1234789-HpCDF	55673-89-7	0.132	JB	0.0269	5.91	1
11031	OCDF	39001-02-0	3.33	JB	0.0219	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	31	26 - 152
13C12-123678-HxCDF	43	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	44	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-090-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA8N-SS-0.0-0.5

LLI Sample # SW 6259077
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX071-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-090-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA8N-SS-0.0-0.5

LLI Sample # SW 6259077
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX071-06

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/23/2011 13:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401B	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-091-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA8N-SS-0.0-0.5

LLI Sample # SW 6259078
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:50

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD091 SDG#: DX071-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA8N-SS-0.0-0.5

LLI Sample # SW 6259078
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:50

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD091 SDG#: DX071-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0177	U	0.0177	1.19	1
11031	12378-PeCDD	40321-76-4	0.166	JBQ	0.0271	5.94	1
11031	123478-HxCDD	39227-28-6	0.186	JBQ	0.0749	5.94	1
11031	123678-HxCDD	57653-85-7	0.898	JB	0.0662	5.94	1
11031	123789-HxCDD	19408-74-3	0.977	JB	0.0511	5.94	1
11031	1234678-HpCDD	35822-46-9	8.23	B	0.0507	5.94	1
11031	OCDD	3268-87-9	75.8	B	0.0420	11.9	1
11031	2378-TCDF	51207-31-9	4.40		0.161	1.19	1
11650	2378-TCDF-Conf	51207-31-9	3.88	B	0.0486	1.19	1
11031	12378-PeCDF	57117-41-6	1.59	JB	0.0465	5.94	1
11031	23478-PeCDF	57117-31-4	1.18	JB	0.0532	5.94	1
11031	123478-HxCDF	70648-26-9	1.88	JB	0.118	5.94	1
11031	123678-HxCDF	57117-44-9	0.313	JB	0.0823	5.94	1
11031	123789-HxCDF	72918-21-9	0.462	JB	0.0470	5.94	1
11031	234678-HxCDF	60851-34-5	0.370	JB	0.0408	5.94	1
11031	1234678-HpCDF	67562-39-4	1.97	JB	0.0438	5.94	1
11031	1234789-HpCDF	55673-89-7	0.191	JBQ	0.0305	5.94	1
11031	OCDF	39001-02-0	3.22	JB	0.0415	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-2378-TCDF-Conf	71	24 - 169
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	53	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA8N-SS-0.0-0.5

LLI Sample # SW 6259078
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:50

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD091 SDG#: DX071-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-091-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA8N-SS-0.0-0.5

LLI Sample # SW 6259078
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:50

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD091 SDG#: DX071-07

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/23/2011 03:18	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11108001	04/29/2011 05:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401B	04/21/2011 20:48	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-130-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA8N-SS-0.0-0.5

LLI Sample # SW 6259079
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 09:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD130 SDG#: DX071-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-130-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA8N-SS-0.0-0.5

LLI Sample # SW 6259079
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 09:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD130 SDG#: DX071-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0931	JQ	0.0168	1.17	1
11031	12378-PeCDD	40321-76-4	0.388	JB	0.0392	5.85	1
11031	123478-HxCDD	39227-28-6	0.811	JB	0.0775	5.85	1
11031	123678-HxCDD	57653-85-7	4.32	JB	0.0761	5.85	1
11031	123789-HxCDD	19408-74-3	1.55	JB	0.0682	5.85	1
11031	1234678-HpCDD	35822-46-9	127	B	0.129	5.85	1
11031	OCDD	3268-87-9	1,360	B	0.0893	11.7	1
11031	2378-TCDF	51207-31-9	1.05	J	0.167	1.17	1
11031	12378-PeCDF	57117-41-6	1.95	JB	0.0577	5.85	1
11031	23478-PeCDF	57117-31-4	1.02	JB	0.0539	5.85	1
11031	123478-HxCDF	70648-26-9	2.41	JB	0.0907	5.85	1
11031	123678-HxCDF	57117-44-9	0.782	JB	0.0709	5.85	1
11031	123789-HxCDF	72918-21-9	1.21	JB	0.0535	5.85	1
11031	234678-HxCDF	60851-34-5	1.08	JB	0.0489	5.85	1
11031	1234678-HpCDF	67562-39-4	16.5	B	0.0460	5.85	1
11031	1234789-HpCDF	55673-89-7	1.92	JB	0.0383	5.85	1
11031	OCDF	39001-02-0	35.9	B	0.0438	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-130-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA8N-SS-0.0-0.5

LLI Sample # SW 6259079
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 09:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD130 SDG#: DX071-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-130-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA8N-SS-0.0-0.5

LLI Sample # SW 6259079
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 09:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD130 SDG#: DX071-08

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/23/2011 04:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401B	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259080
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-133-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259080
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.128	U	0.128	1.17	1
11031	12378-PeCDD	40321-76-4	0.699	JB	0.111	5.83	1
11031	123478-HxCDD	39227-28-6	0.857	JB	0.0882	5.83	1
11031	123678-HxCDD	57653-85-7	2.13	JB	0.0912	5.83	1
11031	123789-HxCDD	19408-74-3	1.64	JB	0.0869	5.83	1
11031	1234678-HpCDD	35822-46-9	45.4	B	0.0913	5.83	1
11031	OCDD	3268-87-9	493	B	0.0722	11.7	1
11031	2378-TCDF	51207-31-9	28.5	B	0.953	1.17	1
11650	2378-TCDF-Conf	51207-31-9	5.78	B	0.143	1.17	1
11031	12378-PeCDF	57117-41-6	3.96	JB	0.198	5.83	1
11031	23478-PeCDF	57117-31-4	10.6	B	0.196	5.83	1
11031	123478-HxCDF	70648-26-9	4.98	JB	0.0937	5.83	1
11031	123678-HxCDF	57117-44-9	1.36	J	0.0883	5.83	1
11031	123789-HxCDF	72918-21-9	1.17	JB	0.0993	5.83	1
11031	234678-HxCDF	60851-34-5	1.40	JB	0.0872	5.83	1
11031	1234678-HpCDF	67562-39-4	10.9	B	0.0441	5.83	1
11031	1234789-HpCDF	55673-89-7	1.04	JB	0.0550	5.83	1
11031	OCDF	39001-02-0	21.1	B	0.0443	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-2378-TCDF-Conf	85	24 - 169
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	96	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	83	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-133-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259080
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259080
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09BKG

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122002	05/04/2011 21:27	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11122002	05/10/2011 06:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11122002	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259081
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-133-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259081
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.9		0.0899	1.15	1
11031	12378-PeCDD	40321-76-4	117	B	0.118	5.75	1
11031	123478-HxCDD	39227-28-6	117	B	0.119	5.75	1
11031	123678-HxCDD	57653-85-7	119	B	0.119	5.75	1
11031	123789-HxCDD	19408-74-3	118	B	0.118	5.75	1
11031	1234678-HpCDD	35822-46-9	162	B	0.111	5.75	1
11031	OCDD	3268-87-9	785	B	0.0782	11.5	1
11031	2378-TCDF	51207-31-9	53.2	B	0.848	1.15	1
11031	12378-PeCDF	57117-41-6	120	B	0.168	5.75	1
11031	23478-PeCDF	57117-31-4	128	B	0.170	5.75	1
11031	123478-HxCDF	70648-26-9	123	B	0.107	5.75	1
11031	123678-HxCDF	57117-44-9	116		0.0966	5.75	1
11031	123789-HxCDF	72918-21-9	118	B	0.115	5.75	1
11031	234678-HxCDF	60851-34-5	118	B	0.0996	5.75	1
11031	1234678-HpCDF	67562-39-4	132	B	0.0652	5.75	1
11031	1234789-HpCDF	55673-89-7	119	B	0.0857	5.75	1
11031	OCDF	39001-02-0	262	B	0.0590	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259081
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259081
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MS

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122002	05/04/2011 22:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11122002	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259082
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-133-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259082
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.1		0.119	1.16	1
11031	12378-PeCDD	40321-76-4	120	B	0.119	5.81	1
11031	123478-HxCDD	39227-28-6	122	B	0.119	5.81	1
11031	123678-HxCDD	57653-85-7	121	B	0.115	5.81	1
11031	123789-HxCDD	19408-74-3	118	B	0.114	5.81	1
11031	1234678-HpCDD	35822-46-9	197	B	0.121	5.81	1
11031	OCDD	3268-87-9	1,220	B	0.119	11.6	1
11031	2378-TCDF	51207-31-9	51.6	B	1.05	1.16	1
11031	12378-PeCDF	57117-41-6	122	B	0.184	5.81	1
11031	23478-PeCDF	57117-31-4	126	B	0.189	5.81	1
11031	123478-HxCDF	70648-26-9	122	B	0.122	5.81	1
11031	123678-HxCDF	57117-44-9	120		0.113	5.81	1
11031	123789-HxCDF	72918-21-9	117	B	0.114	5.81	1
11031	234678-HxCDF	60851-34-5	121	B	0.0984	5.81	1
11031	1234678-HpCDF	67562-39-4	133	B	0.0718	5.81	1
11031	1234789-HpCDF	55673-89-7	119	B	0.0882	5.81	1
11031	OCDF	39001-02-0	272	B	0.0619	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-133-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259082
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-133-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259082
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MSD

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122002	05/04/2011 23:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11122002	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-134-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259083
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD134 SDG#: DX071-10*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-134-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259083
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD134 SDG#: DX071-10*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0234	U	0.0234	1.12	1
11031	12378-PeCDD	40321-76-4	0.343	JBQ	0.0412	5.61	1
11031	123478-HxCDD	39227-28-6	0.425	JB	0.0797	5.61	1
11031	123678-HxCDD	57653-85-7	1.70	JB	0.0776	5.61	1
11031	123789-HxCDD	19408-74-3	1.89	JB	0.0694	5.61	1
11031	1234678-HpCDD	35822-46-9	23.0	B	0.0802	5.61	1
11031	OCDD	3268-87-9	279	B	0.0808	11.2	1
11031	2378-TCDF	51207-31-9	1.21		0.154	1.12	1
11650	2378-TCDF-Conf	51207-31-9	0.875	JB	0.0655	1.12	1
11031	12378-PeCDF	57117-41-6	1.00	JB	0.0485	5.61	1
11031	23478-PeCDF	57117-31-4	0.800	JB	0.0465	5.61	1
11031	123478-HxCDF	70648-26-9	1.88	JB	0.117	5.61	1
11031	123678-HxCDF	57117-44-9	0.608	JB	0.0854	5.61	1
11031	123789-HxCDF	72918-21-9	1.04	JB	0.0661	5.61	1
11031	234678-HxCDF	60851-34-5	0.564	JB	0.0579	5.61	1
11031	1234678-HpCDF	67562-39-4	5.58	JB	0.0482	5.61	1
11031	1234789-HpCDF	55673-89-7	0.632	JB	0.0498	5.61	1
11031	OCDF	39001-02-0	10.1	JB	0.0463	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-2378-TCDF-Conf	54	24 - 169
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-134-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259083
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD134 SDG#: DX071-10*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-134-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259083
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD134 SDG#: DX071-10*

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/23/2011 08:01	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11108001	04/29/2011 06:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242329
Reported: 05/13/11 at 01:20 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11111162401B	Sample number(s): 6259072,6259077-6259079								
Moisture Content by 160.3					99		80-120		
Batch number: 11129162401A	Sample number(s): 6259073-6259076,6259080-6259083								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11108001	Sample number(s): 6259072-6259079,6259083								
2378-TCDD	0.0130 U	0.0130	1.00	ng/kg	100		67-158		
12378-PeCDD	0.0250 J	0.0149	5.00	ng/kg	109		70-142		
123478-HxCDD	0.0149 J	0.0105	5.00	ng/kg	110		70-164		
123678-HxCDD	0.0308 J	0.0110	5.00	ng/kg	109		76-134		
123789-HxCDD	0.0253 J	0.0107	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.251 J	0.0186	5.00	ng/kg	107		70-140		
OCDD	0.502 J	0.0217	10.0	ng/kg	109		78-144		
2378-TCDF	0.0123 U	0.0123	1.00	ng/kg	128		75-158		
2378-TCDF-Conf	0.0304 J	0.0224	1.00	ng/kg					
12378-PeCDF	0.0222 J	0.00710	5.00	ng/kg	108		80-134		
23478-PeCDF	0.0491 J	0.00740	5.00	ng/kg	111		68-160		
123478-HxCDF	0.0294 J	0.00930	5.00	ng/kg	112		72-134		
123678-HxCDF	0.0156 J	0.00770	5.00	ng/kg	111		84-130		
123789-HxCDF	0.0308 J	0.0104	5.00	ng/kg	111		78-130		
234678-HxCDF	0.0256 J	0.00870	5.00	ng/kg	113		70-156		
1234678-HpCDF	0.0712 J	0.00810	5.00	ng/kg	109		82-122		
1234789-HpCDF	0.0462 J	0.0126	5.00	ng/kg	111		78-138		
OCDF	0.149 J	0.0213	10.0	ng/kg	113		63-170		
Batch number: 11122002	Sample number(s): 6259080-6259082								
2378-TCDD	0.0172 U	0.0172	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0291 J	0.0152	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0176 J	0.0135	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0563 J	0.0139	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0395 J	0.0129	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.160 J	0.0232	5.00	ng/kg	100		70-140		
OCDD	0.283 J	0.0219	10.0	ng/kg	100		78-144		
2378-TCDF	0.0138 J	0.0129	1.00	ng/kg	104		75-158		
2378-TCDF-Conf	0.0340 J	0.0272	1.00	ng/kg					
12378-PeCDF	0.0402 J	0.00770	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0477 J	0.00730	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0299 J	0.00990	5.00	ng/kg	100		72-134		
123678-HxCDF	0.00940 U	0.00940	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0587 J	0.0100	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0330 J	0.00890	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.0552 J	0.00880	5.00	ng/kg	99		82-122		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242329
Reported: 05/13/11 at 01:20 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234789-HpCDF	0.0327 J	0.0126	5.00	ng/kg	101		78-138		
OCDF	0.0855 J	0.0225	10.0	ng/kg	101		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11111162401B	Sample number(s): 6259072,6259077-6259079 BKG: P259051								
Moisture Content by 160.3						15.5	14.6	6	20
Batch number: 11129162401A	Sample number(s): 6259073-6259076,6259080-6259083 BKG: P259054								
Moisture Content by 160.3						14.6	14.7	1	20
Batch number: 11122002	Sample number(s): 6259080-6259082 UNSPK: 6259080								
2378-TCDD	99	99	67-158	1	25				
12378-PeCDD	101	103	70-142	3	25				
123478-HxCDD	101	104	70-164	4	25				
123678-HxCDD	102	102	76-134	2	25				
123789-HxCDD	101	100	64-162	0	25				
1234678-HpCDD	101	130	70-140	20	25				
OCDD	127	314*	78-144	44*	25				
2378-TCDF	107	99	75-158	3	25				
12378-PeCDF	101	101	80-134	1	25				
23478-PeCDF	102	99	68-160	2	25				
123478-HxCDF	103	101	72-134	1	25				
123678-HxCDF	100	102	84-130	3	25				
123789-HxCDF	102	100	78-130	1	25				
234678-HxCDF	102	103	70-156	2	25				
1234678-HpCDF	105	105	82-122	1	25				
1234789-HpCDF	103	102	78-138	0	25				
OCDF	105	108	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11108001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6259072	68	68	49	60	74	73
6259073	75	74	64	76	77	72
6259074	77	69	47	61	75	79
6259075	79	75	53	68	80	78
6259076	76	72	49	65	77	74
6259077	79	70	31	43	80	79
6259078	78	62	27	38	76	75
6259079	83	80	47	59	84	85

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242329
Reported: 05/13/11 at 01:20 PM

Surrogate Quality Control

6259083	71	67	36	48	70	69
Blank	77	71	72	83	76	73
OPR	78	68	49	71	73	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6259072	56	62	46	78	68	67
6259073	80	66	58	86	76	75
6259074	61	67	59	85	72	69
6259075	70	69	61	84	75	76
6259076	67	66	59	83	75	72
6259077	44	72	64	84	76	60
6259078	40	66	53	78	74	53
6259079	59	78	70	88	82	71
6259083	53	60	52	76	69	63
Blank	90	66	62	95	77	79
OPR	86	57	52	87	78	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6259072	69	71	61	45	67	68
6259073	77	76	71	64	70	78
6259074	73	76	69	62	73	77
6259075	75	78	72	66	74	78
6259076	76	76	71	65	71	78
6259077	71	79	74	70	75	78
6259078	64	78	70	65	73	77
6259079	78	82	76	71	81	82
6259083	66	71	64	59	66	72
Blank	79	78	74	71	69	80
OPR	81	81	77	74	67	81
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
	13C12-2378-TCDF-Conf					
6259072						
6259073						
6259074						
6259075	68					
6259076						
6259077						
6259078	71					
6259079						
6259083	54					
Blank	73					
OPR						
Limits:	24-169					

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11122002

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242329
Reported: 05/13/11 at 01:20 PM

Surrogate Quality Control

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6259080	88	83	88	90	90	90
6259081	81	79	81	85	83	81
6259082	72	69	66	67	75	74
Blank	62	62	62	65	67	67
MS	81	79	81	85	83	81
MSD	72	69	66	67	75	74
OPR	68	67	70	75	72	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6259080	93	87	83	95	85	96
6259081	90	79	76	86	82	89
6259082	73	67	65	74	71	81
Blank	71	61	58	73	65	70
MS	90	79	76	86	82	89
MSD	73	67	65	74	71	81
OPR	82	67	64	81	71	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6259080	94	94	93	92	86	88
6259081	88	87	86	84	79	88
6259082	81	81	76	77	70	77
Blank	71	72	71	69	58	63
MS	88	87	86	84	79	88
MSD	81	81	76	77	70	77
OPR	76	78	76	74	63	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6259080	85
6259081	
6259082	
Blank	56
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1242329 6259072-83

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other instructions and Notes
DUP03-SA8N-QC-041411	04.14.11	1525	SOIL	NONE	1-16 oz jar										X	X	X	X	X	X	X	X	X	
SL-040-SA8N-SS-0.0-0.5	04.14.11	1000	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-040-SA8N-SS-0.0-0.5	04.14.11	1000	SOIL	NONE	1 SS sleeve			X	X															
SL-078-SA8N-SS-0.0-0.5	04.14.11	1110	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-078-SA8N-SS-0.0-0.5	04.14.11	1110	SOIL	NONE	1 SS sleeve			X	X															
SL-079-SA8N-SS-0.0-0.5	04.14.11	1630	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-079-SA8N-SS-0.0-0.5	04.14.11	1630	SOIL	NONE	1 SS sleeve			X	X															
SL-082-SA8N-SS-0.0-0.5	04.14.11	1535	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-082-SA8N-SS-0.0-0.5	04.14.11	1535	SOIL	NONE	1 SS sleeve			X	X															
SL-089-SA8N-SS-0.0-0.5	04.14.11	1610	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-089-SA8N-SS-0.0-0.5	04.14.11	1610	SOIL	NONE	1 SS sleeve			X	X															
SL-090-SA8N-SS-0.0-0.5	04.14.11	1645	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-090-SA8N-SS-0.0-0.5	04.14.11	1645	SOIL	NONE	1 SS sleeve			X	X															
SL-091-SA8N-SS-0.0-0.5	04.14.11	1450	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-091-SA8N-SS-0.0-0.5	04.14.11	1450	SOIL	NONE	1 SS sleeve			X	X															
SL-130-SA8N-SS-0.0-0.5	04.14.11	0945	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-130-SA8N-SS-0.0-0.5	04.14.11	0945	SOIL	NONE	1 SS sleeve			X	X															
SL-133-SA8N-SS-0.0-0.5MS	04.14.11	1520	SOIL	NONE	2-16 oz jars										X	X	X	X	X	X	X	X	X	
SL-133-SA8N-SS-0.0-0.5	04.14.11	1520	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-133-SA8N-SS-0.0-0.5	04.14.11	1520	SOIL	NONE	1 SS sleeve			X	X															
SL-134-SA8N-SS-0.0-0.5	04.14.11	1405	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-134-SA8N-SS-0.0-0.5	04.14.11	1405	SOIL	NONE	1 SS sleeve			X	X															

PRIMARY FOR ALL LOCATIONS | SECONDARY FOR ALL LOCATIONS

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/14/2011 / 1700	4/15/11 955	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1367 6216; 8700 5932 3168 8700 5930 9896	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/15/2011
Group Number: 1242330
SDG: DE128
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP14-SA5A-QC-041411 Soil	6259084
SL-058-SA5A-SB-3.0-4.0 Soil	6259085
SL-058-SA5A-SB-3.0-4.0MS Soil	6259086
SL-058-SA5A-SB-3.0-4.0MSD Soil	6259087
SL-058-SA5A-SB-3.0-4.0DUP Soil	6259088
SL-059-SA5A-SB-3.0-4.0 Soil	6259089
SL-065-SA5A-SB-4.0-5.0 Soil	6259090
SL-242-SA5A-SB-2.5-3.5 Soil	6259091
TB-041411 Water	6259092

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP14-SA5A-QC-041411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259084
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP14 SDG#: DE128-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.01
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.01
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.01
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.01
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.01
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		1.01
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.01
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.01
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		1.01
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.01
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.01
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.01
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		1.01
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		1.01
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		1.01
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		1.01
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.01
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.01
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.01
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.01
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.01
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.01
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.01
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.01
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.01
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.01
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1.01
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		1.01
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.01
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		1.01
06192	Methylene Chloride	75-09-2	1.0	J	0.27	4.4		1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.01

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP14-SA5A-QC-041411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259084
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP14 SDG#: DE128-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1.01
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.01
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.01
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.01
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.01
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.01
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.01
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		25.1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: **DUP14-SA5A-QC-041411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259084
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP14 SDG#: DE128-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1

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Sample Description: **DUP14-SA5A-QC-041411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259084
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP14 SDG#: DE128-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.40	21.5		1
07914	Boron	7440-42-8	1.17	J	0.955	5.36		1
01650	Calcium	7440-70-2	3,090		6.58	21.5		1
01654	Iron	7439-89-6	25,600		5.05	21.5		1
01656	Lithium	7439-93-2	33.8		0.24	2.1		1
01657	Magnesium	7439-95-4	5,820		2.72	10.7		1
06958	Manganese	7439-96-5	334		0.0837	0.536		1
10145	Phosphorus	7723-14-0	503		0.601	10.7		1
01662	Potassium	7440-09-7	2,680		19.3	53.6		1
01667	Sodium	7440-23-5	111		40.0	107		1
07968	Strontium	7440-24-6	18.1		0.0665	0.536		1
06969	Tin	7440-31-5	3.24	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,200		0.408	1.07		1
10146	Zirconium	7440-67-7	1.12	J	0.901	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0650	U	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.17		0.0867	0.433		2
06126	Barium	7440-39-3	87.0		0.117	0.433		2
06127	Beryllium	7440-41-7	0.769		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0684	J	0.0433	0.108		2
06131	Chromium	7440-47-3	21.3		0.130	0.433		2
06132	Cobalt	7440-48-4	10.9		0.0217	0.108		2
06133	Copper	7440-50-8	12.5		0.0715	0.433		2
06135	Lead	7439-92-1	6.85		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.530		0.0542	0.108		2

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Sample Description: **DUP14-SA5A-QC-041411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259084
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP14 SDG#: DE128-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	19.2	0.108	0.433		2
06141	Selenium	7782-49-2	0.166 J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0147 J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.359	0.0325	0.108		2
06148	Vanadium	7440-62-2	39.8	0.0238	0.108		2
06149	Zinc	7440-66-6	74.5	0.607	3.25		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	426	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.46	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP14-SA5A-QC-041411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259084
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP14 SDG#: DE128-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 18:44	Chelsea B Eastep	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111082AA	04/18/2011 18:59	Sara E Johnson	25.1
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110524120	04/15/2011 16:57	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110524120	04/15/2011 17:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110524120	04/15/2011 17:30	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110524120	04/15/2011 16:54	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 15:56	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLJ026	04/23/2011 02:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLJ026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090012A	04/21/2011 15:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090012A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708005	04/27/2011 16:45	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026002A	04/26/2011 12:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026002A	04/26/2011 12:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026002D	04/26/2011 12:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026002A	04/26/2011 12:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026002A	04/26/2011 12:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026002A	04/26/2011 12:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026002A	04/26/2011 12:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026002A	04/26/2011 12:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026002A	04/26/2011 12:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026002C	04/26/2011 12:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026002A	04/26/2011 12:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026002B	04/26/2011 12:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026002A	04/26/2011 12:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026002A	04/26/2011 12:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026002A	04/26/2011 12:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026002A	04/26/2011 12:23	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP14-SA5A-QC-041411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259084
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP14 SDG#: DE128-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111125711005	04/26/2011 08:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708005	04/25/2011 08:25	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026002	04/25/2011 08:38	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711005	04/25/2011 10:10	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202A	04/28/2011 16:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202A	04/29/2011 17:18	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11116243201A	05/02/2011 12:44	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202A	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202A	04/29/2011 10:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11111182102B	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-058-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259085
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.95
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.95
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.95
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.95
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.95
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.95
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.95
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.95
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.95
06192	Methylene Chloride	75-09-2	0.42	J	0.25	4.2		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.95

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-058-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259085
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.95
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.95
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.95
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-058-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259085
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.81	J	0.73	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-058-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259085
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		5.42	21.5		1
07914	Boron	7440-42-8	2.40	J	0.959	5.39		1
01650	Calcium	7440-70-2	2,350		6.60	21.5		1
01654	Iron	7439-89-6	21,100		5.07	21.5		1
01656	Lithium	7439-93-2	25.5		0.24	2.2		1
01657	Magnesium	7439-95-4	4,690		2.74	10.8		1
06958	Manganese	7439-96-5	261		0.0840	0.539		1
10145	Phosphorus	7723-14-0	368		0.603	10.8		1
01662	Potassium	7440-09-7	2,980		19.4	53.9		1
01667	Sodium	7440-23-5	79.9	J	40.2	108		1
07968	Strontium	7440-24-6	17.8		0.0668	0.539		1
06969	Tin	7440-31-5	2.90	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,010		0.409	1.08		1
10146	Zirconium	7440-67-7	1.28	J	0.905	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0723	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.46		0.0879	0.440		2
06126	Barium	7440-39-3	99.0		0.119	0.440		2
06127	Beryllium	7440-41-7	0.661		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.102	J	0.0440	0.110		2
06131	Chromium	7440-47-3	21.1		0.132	0.440		2
06132	Cobalt	7440-48-4	7.02		0.0220	0.110		2
06133	Copper	7440-50-8	12.5		0.0725	0.440		2
06135	Lead	7439-92-1	6.18		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.469		0.0549	0.110		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-058-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259085
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	16.2	0.110	0.440		2
06141	Selenium	7782-49-2	0.152 J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0289 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.263	0.0330	0.110		2
06148	Vanadium	7440-62-2	36.4	0.0242	0.110		2
06149	Zinc	7440-66-6	58.7	0.615	3.30		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	451	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.47	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-058-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-058-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259085
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 19:06	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111082AA	04/18/2011 19:19	Sara E Johnson	23.95
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110524120	04/15/2011 17:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110524120	04/15/2011 17:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110524120	04/15/2011 17:30	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110524120	04/15/2011 16:59	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 16:23	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLJ026	04/23/2011 01:21	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLJ026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090012A	04/21/2011 15:31	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090012A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708005	04/27/2011 16:22	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026002A	04/26/2011 11:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026002A	04/26/2011 11:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026002D	04/26/2011 11:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026002A	04/26/2011 11:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026002A	04/26/2011 11:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026002A	04/26/2011 11:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026002A	04/26/2011 11:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026002A	04/26/2011 11:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026002A	04/26/2011 11:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026002C	04/26/2011 11:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026002A	04/26/2011 11:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026002B	04/26/2011 11:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026002A	04/26/2011 11:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026002A	04/26/2011 11:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026002A	04/26/2011 11:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026002A	04/26/2011 11:58	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259085
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111125711005	04/26/2011 09:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708005	04/25/2011 08:25	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026002	04/25/2011 08:38	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711005	04/25/2011 10:10	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202A	04/28/2011 15:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202A	04/29/2011 16:12	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11116243201A	05/02/2011 12:57	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202A	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202A	04/29/2011 10:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11111182102B	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259086
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	120	7.1	8.4		0.96
06192	Benzene	71-43-2	21	0.11	4.2		0.96
06192	Bromobenzene	108-86-1	20	0.14	4.2		0.96
06192	Bromochloromethane	74-97-5	24	0.35	4.2		0.96
06192	Bromodichloromethane	75-27-4	19	0.08	4.2		0.96
06192	Bromoform	75-25-2	17	0.42	4.2		0.96
06192	Bromomethane	74-83-9	18	0.26	4.2		0.96
06192	2-Butanone	78-93-3	120	1.3	8.4		0.96
06192	n-Butylbenzene	104-51-8	17	0.13	4.2		0.96
06192	sec-Butylbenzene	135-98-8	19	0.06	4.2		0.96
06192	tert-Butylbenzene	98-06-6	18	0.17	4.2		0.96
06192	Carbon Tetrachloride	56-23-5	19	0.15	4.2		0.96
06192	Chlorobenzene	108-90-7	19	0.12	4.2		0.96
06192	Chloroethane	75-00-3	18	0.14	4.2		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	11	0.32	4.2		0.96
06192	Chloroform	67-66-3	20	0.13	4.2		0.96
06192	Chloromethane	74-87-3	20	0.35	4.2		0.96
06192	2-Chlorotoluene	95-49-8	19	0.15	4.2		0.96
06192	4-Chlorotoluene	106-43-4	19	0.15	4.2		0.96
06192	Chlorotrifluoroethene	79-38-9	24	0.62	6.2		1.12
06192	1,2-Dibromo-3-chloropropane	96-12-8	15	0.74	4.2		0.96
06192	Dibromochloromethane	124-48-1	18	0.21	4.2		0.96
06192	1,2-Dibromoethane	106-93-4	19	0.18	4.2		0.96
06192	Dibromomethane	74-95-3	19	0.25	4.2		0.96
06192	1,2-Dichlorobenzene	95-50-1	18	0.09	4.2		0.96
06192	1,3-Dichlorobenzene	541-73-1	19	0.13	4.2		0.96
06192	1,4-Dichlorobenzene	106-46-7	19	0.17	4.2		0.96
06192	Dichlorodifluoromethane	75-71-8	17	0.13	4.2		0.96
06192	1,1-Dichloroethane	75-34-3	21	0.11	4.2		0.96
06192	1,2-Dichloroethane	107-06-2	18	0.16	4.2		0.96
06192	1,1-Dichloroethene	75-35-4	24	0.41	4.2		0.96
06192	cis-1,2-Dichloroethene	156-59-2	21	0.20	4.2		0.96
06192	trans-1,2-Dichloroethene	156-60-5	21	0.13	4.2		0.96
06192	1,2-Dichloropropane	78-87-5	20	0.18	4.2		0.96
06192	1,3-Dichloropropane	142-28-9	19	0.08	4.2		0.96
06192	2,2-Dichloropropane	594-20-7	17	0.18	4.2		0.96
06192	1,1-Dichloropropene	563-58-6	20	0.14	4.2		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.17	4.2		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	16	0.18	4.2		0.96
06192	Ethylbenzene	100-41-4	19	0.06	4.2		0.96
06192	Freon 113	76-13-1	25	0.12	4.2		0.96
06192	Freon 133a	75-88-7	28	0.62	6.2		1.12
06192	Hexachlorobutadiene	87-68-3	16	0.15	4.2		0.96
06192	2-Hexanone	591-78-6	79	1.7	8.4		0.96
06192	Isopropylbenzene	98-82-8	18	0.06	4.2		0.96
06192	p-Isopropyltoluene	99-87-6	18	0.12	4.2		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	17	0.22	4.2		0.96
06192	4-Methyl-2-pentanone	108-10-1	80	0.41	8.4		0.96
06192	Methylene Chloride	75-09-2	22	0.25	4.2		0.96
06192	n-Propylbenzene	103-65-1	19	0.07	4.2		0.96

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-058-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259086
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	18		0.11	4.2		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	18		0.12	4.2		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	19		0.24	4.2		0.96
06192	Tetrachloroethene	127-18-4	19		0.21	4.2		0.96
06192	Toluene	108-88-3	20		0.08	4.2		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	17		0.15	4.2		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	16		0.19	4.2		0.96
06192	1,1,1-Trichloroethane	71-55-6	19		0.21	4.2		0.96
06192	1,1,2-Trichloroethane	79-00-5	19		0.28	4.2		0.96
06192	Trichloroethene	79-01-6	20		0.16	4.2		0.96
06192	Trichlorofluoromethane	75-69-4	21		0.31	4.2		0.96
06192	1,2,3-Trichloropropane	96-18-4	18		0.35	4.2		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	19		0.42	4.2		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	19		0.11	4.2		0.96
06192	Vinyl Chloride	75-01-4	20		0.21	4.2		0.96
06192	m+p-Xylene	179601-23-1	37		0.18	4.2		0.96
06192	o-Xylene	95-47-6	18		0.18	4.2		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	170		5.4	16		24.75
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		18	180		1
04688	Acenaphthylene	208-96-8	1,700		18	180		1
04688	Aniline	62-53-3	1,400		180	550		1
04688	Anthracene	120-12-7	1,700		18	180		1
04688	Benzidine	92-87-5	1,300	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,900		18	180		1
04688	Benzoic acid	65-85-0	2,100		180	550		1
04688	Benzyl alcohol	100-51-6	1,800		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,900		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,800		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		37	180		1
04688	4-Chloroaniline	106-47-8	1,100		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,200		18	180		1
04688	2-Chlorophenol	95-57-8	1,800		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		37	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		18	180		1
04688	Dibenzofuran	132-64-9	1,700		18	180		1

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Sample Description: **SL-058-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259086
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,600	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	890	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,700	18	180		1
04688	Diethylphthalate	84-66-2	1,800	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,700	37	180		1
04688	3,5-Dimethylphenol	108-68-9	1,900	37	180		1
04688	Dimethylphthalate	131-11-3	1,700	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	180	550		1
04688	2,4-Dinitrophenol	51-28-5	2,600	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	18	370		1
04688	Fluoranthene	206-44-0	1,700	18	180		1
04688	Fluorene	86-73-7	1,700	18	180		1
04688	Hexachlorobenzene	118-74-1	1,600	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,500	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	1,600	180	550		1
04688	Hexachloroethane	67-72-1	1,400	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	18	180		1
04688	Isophorone	78-59-1	1,700	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,800	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180		1
04688	2-Methylphenol	95-48-7	1,800	37	180		1
04688	4-Methylphenol	106-44-5	1,800	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	18	180		1
04688	2-Nitroaniline	88-74-4	2,000	18	180		1
04688	3-Nitroaniline	99-09-2	1,800	37	180		1
04688	4-Nitroaniline	100-01-6	1,500	73	180		1
04688	Nitrobenzene	98-95-3	1,700	18	180		1
04688	2-Nitrophenol	88-75-5	1,600	18	180		1
04688	4-Nitrophenol	100-02-7	1,600	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	2,000	37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,800	18	180		1
04688	Pentachlorophenol	87-86-5	1,500	180	550		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,800	18	180		1
04688	Pyrene	129-00-0	1,800	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	37	180		1

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Sample Description: SL-058-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259086
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4,6-Trichlorophenol	88-06-2	1,700		37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34		0.73	1.8		1
10138	Acenaphthylene	208-96-8	33		0.36	1.8		1
10138	Anthracene	120-12-7	35		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	36		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	35		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	36		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	32		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	36		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	35		6.6	20		1
10138	Di-n-butylphthalate	84-74-2	36		6.6	20		1
10138	Chrysene	218-01-9	36		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	35		0.73	1.8		1
10138	Diethylphthalate	84-66-2	30		6.6	20		1
10138	Dimethylphthalate	131-11-3	37		6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	40		6.6	20		1
10138	Fluoranthene	206-44-0	37		0.73	1.8		1
10138	Fluorene	86-73-7	34		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	32		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	28		0.73	1.8		1
10138	Naphthalene	91-20-3	30		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	35		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	37		6.6	20		1
10138	Phenanthrene	85-01-8	35		0.73	1.8		1
10138	Pyrene	129-00-0	33		0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	17		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	20		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,200		5.47	21.8		1
07914	Boron	7440-42-8	222		0.968	5.44		1
01650	Calcium	7440-70-2	3,070		6.67	21.8		1
01654	Iron	7439-89-6	21,400		5.12	21.8		1
01656	Lithium	7439-93-2	147		0.24	2.2		1

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Sample Description: **SL-058-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259086
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	5,110	2.76	10.9		1
06958	Manganese	7439-96-5	340	0.0849	0.544		1
10145	Phosphorus	7723-14-0	532	0.609	10.9		1
01662	Potassium	7440-09-7	4,520	19.6	54.4		1
01667	Sodium	7440-23-5	1,240	40.6	109		1
07968	Strontium	7440-24-6	131	0.0675	0.544		1
06969	Tin	7440-31-5	404	1.09	10.9		1
06970	Titanium	7440-32-6	1,360	0.413	1.09		1
10146	Zirconium	7440-67-7	113	0.914	5.44		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.515	0.0653	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.50	0.0870	0.435		2
06126	Barium	7440-39-3	110	0.118	0.435		2
06127	Beryllium	7440-41-7	1.51	0.0174	0.109		2
06128	Cadmium	7440-43-9	1.34	0.0435	0.109		2
06131	Chromium	7440-47-3	31.7	0.131	0.435		2
06132	Cobalt	7440-48-4	70.3	0.0218	0.109		2
06133	Copper	7440-50-8	24.7	0.0718	0.435		2
06135	Lead	7439-92-1	9.50	0.0113	0.218		2
06138	Molybdenum	7439-98-7	12.0	0.0544	0.109		2
06139	Nickel	7440-02-0	29.0	0.109	0.435		2
06141	Selenium	7782-49-2	2.34	0.0435	0.435		2
06142	Silver	7440-22-4	12.1	0.0131	0.109		2
06145	Thallium	7440-28-0	0.750	0.0326	0.109		2
06148	Vanadium	7440-62-2	46.9	0.0239	0.109		2
06149	Zinc	7440-66-6	70.9	0.609	3.26		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.184	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.3	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	527	9.9	33.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	42.1	1.1	5.5		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1

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Sample Description: **SL-058-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259086
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MS

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-058-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 19:29	Chelsea B Eastep	0.96
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 20:14	Chelsea B Eastep	1.12
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111082AA	04/18/2011 21:58	Sara E Johnson	24.75
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110524120	04/15/2011 17:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110524120	04/15/2011 17:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110524120	04/15/2011 17:30	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110524120	04/15/2011 17:04	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 16:49	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLJ026	04/23/2011 01:53	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLJ026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090012A	04/21/2011 15:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090012A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708005	04/27/2011 16:33	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026002A	04/26/2011 12:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026002A	04/26/2011 12:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026002D	04/26/2011 12:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026002A	04/26/2011 12:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026002A	04/26/2011 12:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026002A	04/26/2011 12:08	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259086
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111121026002A	04/26/2011 12:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026002A	04/26/2011 12:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026002A	04/26/2011 12:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026002C	04/26/2011 12:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026002A	04/26/2011 12:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026002B	04/26/2011 12:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026002A	04/26/2011 12:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026002A	04/26/2011 12:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026002A	04/26/2011 12:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026002A	04/26/2011 12:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711005	04/26/2011 09:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708005	04/25/2011 08:25	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026002	04/25/2011 08:38	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711005	04/25/2011 10:10	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202A	04/28/2011 16:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202A	04/29/2011 16:56	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11116243201A	05/02/2011 13:09	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202A	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202A	04/29/2011 10:45	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-058-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259087
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	130	7.3	8.8		1
06192	Benzene	71-43-2	22	0.11	4.4		1
06192	Bromobenzene	108-86-1	19	0.14	4.4		1
06192	Bromochloromethane	74-97-5	26	0.36	4.4		1
06192	Bromodichloromethane	75-27-4	19	0.09	4.4		1
06192	Bromoform	75-25-2	18	0.44	4.4		1
06192	Bromomethane	74-83-9	18	0.27	4.4		1
06192	2-Butanone	78-93-3	130	1.3	8.8		1
06192	n-Butylbenzene	104-51-8	13	0.13	4.4		1
06192	sec-Butylbenzene	135-98-8	15	0.07	4.4		1
06192	tert-Butylbenzene	98-06-6	16	0.18	4.4		1
06192	Carbon Tetrachloride	56-23-5	19	0.15	4.4		1
06192	Chlorobenzene	108-90-7	19	0.12	4.4		1
06192	Chloroethane	75-00-3	18	0.14	4.4		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	13	0.33	4.4		1
06192	Chloroform	67-66-3	21	0.13	4.4		1
06192	Chloromethane	74-87-3	21	0.36	4.4		1
06192	2-Chlorotoluene	95-49-8	17	0.15	4.4		1
06192	4-Chlorotoluene	106-43-4	17	0.15	4.4		1
06192	Chlorotrifluoroethene	79-38-9	18	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.77	4.4		1
06192	Dibromochloromethane	124-48-1	19	0.22	4.4		1
06192	1,2-Dibromoethane	106-93-4	20	0.19	4.4		1
06192	Dibromomethane	74-95-3	19	0.26	4.4		1
06192	1,2-Dichlorobenzene	95-50-1	18	0.1	4.4		1
06192	1,3-Dichlorobenzene	541-73-1	18	0.13	4.4		1
06192	1,4-Dichlorobenzene	106-46-7	18	0.18	4.4		1
06192	Dichlorodifluoromethane	75-71-8	18	0.13	4.4		1
06192	1,1-Dichloroethane	75-34-3	21	0.11	4.4		1
06192	1,2-Dichloroethane	107-06-2	19	0.16	4.4		1
06192	1,1-Dichloroethene	75-35-4	25	0.43	4.4		1
06192	cis-1,2-Dichloroethene	156-59-2	21	0.21	4.4		1
06192	trans-1,2-Dichloroethene	156-60-5	22	0.13	4.4		1
06192	1,2-Dichloropropane	78-87-5	21	0.19	4.4		1
06192	1,3-Dichloropropane	142-28-9	20	0.09	4.4		1
06192	2,2-Dichloropropane	594-20-7	18	0.19	4.4		1
06192	1,1-Dichloropropene	563-58-6	20	0.14	4.4		1
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.18	4.4		1
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.19	4.4		1
06192	Ethylbenzene	100-41-4	17	0.07	4.4		1
06192	Freon 113	76-13-1	27	0.12	4.4		1
06192	Freon 133a	75-88-7	22	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	12	0.15	4.4		1
06192	2-Hexanone	591-78-6	89	1.8	8.8		1
06192	Isopropylbenzene	98-82-8	16	0.07	4.4		1
06192	p-Isopropyltoluene	99-87-6	15	0.12	4.4		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.23	4.4		1
06192	4-Methyl-2-pentanone	108-10-1	88	0.43	8.8		1
06192	Methylene Chloride	75-09-2	23	0.26	4.4		1
06192	n-Propylbenzene	103-65-1	17	0.08	4.4		1

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Sample Description: SL-058-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259087
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	17		0.11	4.4		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	18		0.12	4.4		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	21		0.25	4.4		1
06192	Tetrachloroethene	127-18-4	18		0.22	4.4		1
06192	Toluene	108-88-3	20		0.09	4.4		1
06192	1,2,3-Trichlorobenzene	87-61-6	17		0.15	4.4		1
06192	1,2,4-Trichlorobenzene	120-82-1	16		0.20	4.4		1
06192	1,1,1-Trichloroethane	71-55-6	20		0.22	4.4		1
06192	1,1,2-Trichloroethane	79-00-5	20		0.30	4.4		1
06192	Trichloroethene	79-01-6	19		0.16	4.4		1
06192	Trichlorofluoromethane	75-69-4	22		0.32	4.4		1
06192	1,2,3-Trichloropropane	96-18-4	20		0.36	4.4		1
06192	1,2,4-Trimethylbenzene	95-63-6	17		0.44	4.4		1
06192	1,3,5-Trimethylbenzene	108-67-8	17		0.11	4.4		1
06192	Vinyl Chloride	75-01-4	21		0.22	4.4		1
06192	m+p-Xylene	179601-23-1	34		0.19	4.4		1
06192	o-Xylene	95-47-6	17		0.19	4.4		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	160		5.6	17		25.67
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		18	180		1
04688	Acenaphthylene	208-96-8	1,700		18	180		1
04688	Aniline	62-53-3	1,500		180	550		1
04688	Anthracene	120-12-7	1,700		18	180		1
04688	Benzidine	92-87-5	2,200	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,700		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,900		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,900		18	180		1
04688	Benzoic acid	65-85-0	2,000		180	550		1
04688	Benzyl alcohol	100-51-6	1,800		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,500		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,000		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,700		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	180		1
04688	4-Chloroaniline	106-47-8	1,400		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,600		18	180		1
04688	2-Chlorophenol	95-57-8	1,800		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		37	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		18	180		1
04688	Dibenzofuran	132-64-9	1,700		18	180		1

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Sample Description: **SL-058-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259087
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,600	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	950	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,700	18	180		1
04688	Diethylphthalate	84-66-2	1,700	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,700	37	180		1
04688	3,5-Dimethylphenol	108-68-9	1,900	37	180		1
04688	Dimethylphthalate	131-11-3	1,700	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300	180	550		1
04688	2,4-Dinitrophenol	51-28-5	1,800	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,900	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	18	370		1
04688	Fluoranthene	206-44-0	1,700	18	180		1
04688	Fluorene	86-73-7	1,700	18	180		1
04688	Hexachlorobenzene	118-74-1	1,600	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,400	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,100	180	550		1
04688	Hexachloroethane	67-72-1	1,400	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	18	180		1
04688	Isophorone	78-59-1	1,700	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180		1
04688	2-Methylphenol	95-48-7	1,800	37	180		1
04688	4-Methylphenol	106-44-5	1,800	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	18	180		1
04688	2-Nitroaniline	88-74-4	1,900	18	180		1
04688	3-Nitroaniline	99-09-2	1,700	37	180		1
04688	4-Nitroaniline	100-01-6	1,500	73	180		1
04688	Nitrobenzene	98-95-3	1,700	18	180		1
04688	2-Nitrophenol	88-75-5	1,800	18	180		1
04688	4-Nitrophenol	100-02-7	1,500	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,900	37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,800	18	180		1
04688	Pentachlorophenol	87-86-5	1,400	180	550		1
04688	Phenanthrene	85-01-8	1,600	18	180		1
04688	Phenol	108-95-2	1,900	18	180		1
04688	Pyrene	129-00-0	1,800	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	37	180		1

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Sample Description: SL-058-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259087
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4,6-Trichlorophenol	88-06-2	1,600		37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	37		0.73	1.8		1
10138	Acenaphthylene	208-96-8	37		0.37	1.8		1
10138	Anthracene	120-12-7	37		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	38		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	37		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	39		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	33		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	39		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	37		6.6	20		1
10138	Di-n-butylphthalate	84-74-2	38		6.6	20		1
10138	Chrysene	218-01-9	37		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	37		0.73	1.8		1
10138	Diethylphthalate	84-66-2	32		6.6	20		1
10138	Dimethylphthalate	131-11-3	40		6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	40		6.6	20		1
10138	Fluoranthene	206-44-0	40		0.73	1.8		1
10138	Fluorene	86-73-7	37		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	36		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	36		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	32		0.73	1.8		1
10138	Naphthalene	91-20-3	34		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	36		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	38		6.6	20		1
10138	Phenanthrene	85-01-8	37		0.73	1.8		1
10138	Pyrene	129-00-0	35		0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	16		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	20		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	29,100		5.53	22.0		1
07914	Boron	7440-42-8	214		0.978	5.49		1
01650	Calcium	7440-70-2	4,880		6.74	22.0		1
01654	Iron	7439-89-6	44,800		25.9	110		5
01656	Lithium	7439-93-2	164		0.24	2.2		1

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Sample Description: **SL-058-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259087
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	8,830	2.79	11.0		1
06958	Manganese	7439-96-5	401	0.0857	0.549		1
10145	Phosphorus	7723-14-0	479	0.615	11.0		1
01662	Potassium	7440-09-7	4,150	19.8	54.9		1
01667	Sodium	7440-23-5	1,300	41.0	110		1
07968	Strontium	7440-24-6	145	0.0681	0.549		1
06969	Tin	7440-31-5	377	1.10	11.0		1
06970	Titanium	7440-32-6	1,540	0.418	1.10		1
10146	Zirconium	7440-67-7	111	0.923	5.49		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.438	0.0653	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	15.7	0.0870	0.435		2
06126	Barium	7440-39-3	136	0.118	0.435		2
06127	Beryllium	7440-41-7	1.95	0.0174	0.109		2
06128	Cadmium	7440-43-9	1.28	0.0435	0.109		2
06131	Chromium	7440-47-3	45.9	0.131	0.435		2
06132	Cobalt	7440-48-4	73.7	0.0218	0.109		2
06133	Copper	7440-50-8	32.3	0.0718	0.435		2
06135	Lead	7439-92-1	16.0	0.0113	0.218		2
06138	Molybdenum	7439-98-7	11.0	0.0544	0.109		2
06139	Nickel	7440-02-0	36.7	0.109	0.435		2
06141	Selenium	7782-49-2	2.29	0.0435	0.435		2
06142	Silver	7440-22-4	12.4	0.0131	0.109		2
06145	Thallium	7440-28-0	0.844	0.0326	0.109		2
06148	Vanadium	7440-62-2	67.7	0.0239	0.109		2
06149	Zinc	7440-66-6	88.8	0.609	3.26		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.189	0.0031	0.109		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-058-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-058-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259087
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 19:51	Chelsea B Eastep	1
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 20:36	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111082AA	04/18/2011 22:18	Sara E Johnson	25.67
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110524120	04/15/2011 17:12	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110524120	04/15/2011 17:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110524120	04/15/2011 17:30	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110524120	04/15/2011 17:10	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 17:16	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLJ026	04/23/2011 02:25	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLJ026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090012A	04/21/2011 16:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090012A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111125708005	04/27/2011 16:38	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708005	04/27/2011 16:38	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708005	04/27/2011 16:38	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708005	04/27/2011 20:05	John P Hook	5
01656	Lithium	SW-846 6010B	1	111125708005	04/27/2011 16:38	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708005	04/27/2011 16:38	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708005	04/27/2011 16:38	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708005	04/27/2011 16:38	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708005	04/27/2011 16:38	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708005	04/27/2011 16:38	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708005	04/27/2011 16:38	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708005	04/27/2011 16:38	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708005	04/27/2011 16:38	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708005	04/27/2011 16:38	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026002A	04/26/2011 12:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026002A	04/26/2011 12:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026002D	04/26/2011 12:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026002A	04/26/2011 12:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026002A	04/26/2011 12:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026002A	04/26/2011 12:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026002A	04/26/2011 12:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026002A	04/26/2011 12:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026002A	04/26/2011 12:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026002C	04/26/2011 12:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026002A	04/26/2011 12:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026002B	04/26/2011 12:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026002A	04/26/2011 12:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026002A	04/26/2011 12:11	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259087
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111121026002A	04/26/2011 12:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026002A	04/26/2011 12:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711005	04/26/2011 09:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708005	04/25/2011 08:25	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026002	04/25/2011 08:38	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711005	04/25/2011 10:10	Denise K Conners	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: SL-058-SA5A-SB-3.0-4.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259088
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000		5.42	21.5		1
07914	Boron	7440-42-8	1.85	J	0.959	5.39		1
01650	Calcium	7440-70-2	2,340		6.60	21.5		1
01654	Iron	7439-89-6	21,100		5.07	21.5		1
01656	Lithium	7439-93-2	26.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,770		2.74	10.8		1
06958	Manganese	7439-96-5	284		0.0840	0.539		1
10145	Phosphorus	7723-14-0	392		0.603	10.8		1
01662	Potassium	7440-09-7	2,960		19.4	53.9		1
01667	Sodium	7440-23-5	82.1	J	40.2	108		1
07968	Strontium	7440-24-6	17.6		0.0668	0.539		1
06969	Tin	7440-31-5	2.79	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,010		0.409	1.08		1
10146	Zirconium	7440-67-7	2.18	J	0.905	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0708	J	0.0646	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.72		0.0862	0.431		2
06126	Barium	7440-39-3	107		0.116	0.431		2
06127	Beryllium	7440-41-7	0.611		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.158		0.0431	0.108		2
06131	Chromium	7440-47-3	23.1		0.129	0.431		2
06132	Cobalt	7440-48-4	7.56		0.0215	0.108		2
06133	Copper	7440-50-8	15.9		0.0711	0.431		2
06135	Lead	7439-92-1	6.48		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.538		0.0539	0.108		2
06139	Nickel	7440-02-0	18.0		0.108	0.431		2
06141	Selenium	7782-49-2	0.139	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0620	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.329		0.0323	0.108		2
06148	Vanadium	7440-62-2	38.0		0.0237	0.108		2
06149	Zinc	7440-66-6	67.5		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.86	J	0.22	1.1		1

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Analysis Report

Sample Description: SL-058-SA5A-SB-3.0-4.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259088
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	454	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.42	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708005	04/27/2011 16:29	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026002A	04/26/2011 12:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026002A	04/26/2011 12:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026002D	04/26/2011 12:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026002A	04/26/2011 12:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026002A	04/26/2011 12:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026002A	04/26/2011 12:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026002A	04/26/2011 12:05	Choon Y Tian	2

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Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259088
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE128-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111121026002A	04/26/2011 12:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026002A	04/26/2011 12:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026002C	04/26/2011 12:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026002A	04/26/2011 12:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026002B	04/26/2011 12:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026002A	04/26/2011 12:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026002A	04/26/2011 12:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026002A	04/26/2011 12:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026002A	04/26/2011 12:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711005	04/26/2011 09:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708005	04/25/2011 08:25	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026002	04/25/2011 08:38	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711005	04/25/2011 10:10	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202A	04/28/2011 16:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202A	04/29/2011 16:34	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11116243201A	05/02/2011 14:01	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202A	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202A	04/29/2011 10:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11111182102B	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: SL-059-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259089
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:06

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE128-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.87
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.87
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.87
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.87
06192	Methylene Chloride	75-09-2	0.60	J	0.24	3.9		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.87

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Sample Description: SL-059-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259089
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:06

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE128-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.87
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		20
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259089
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE128-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259089
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL059 SDG#: DE128-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,400		5.61	22.3		1
07914	Boron	7440-42-8	1.95	J	0.993	5.58		1
01650	Calcium	7440-70-2	2,610		6.84	22.3		1
01654	Iron	7439-89-6	26,300		5.26	22.3		1
01656	Lithium	7439-93-2	34.2		0.25	2.2		1
01657	Magnesium	7439-95-4	5,650		2.84	11.2		1
06958	Manganese	7439-96-5	309		0.0871	0.558		1
10145	Phosphorus	7723-14-0	293		0.625	11.2		1
01662	Potassium	7440-09-7	2,670		20.1	55.8		1
01667	Sodium	7440-23-5	105	J	41.6	112		1
07968	Strontium	7440-24-6	21.8		0.0692	0.558		1
06969	Tin	7440-31-5	3.13	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,130		0.424	1.12		1
10146	Zirconium	7440-67-7	1.38	J	0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0663	U	0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.20		0.0884	0.442		2
06126	Barium	7440-39-3	125		0.119	0.442		2
06127	Beryllium	7440-41-7	1.07		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.101	J	0.0442	0.111		2
06131	Chromium	7440-47-3	29.4		0.133	0.442		2
06132	Cobalt	7440-48-4	10.2		0.0221	0.111		2
06133	Copper	7440-50-8	13.4		0.0729	0.442		2
06135	Lead	7439-92-1	8.86		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.556		0.0553	0.111		2

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SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259089
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL059 SDG#: DE128-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	21.4	0.111	0.442		2
06141	Selenium	7782-49-2	0.143 J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0316 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.336	0.0332	0.111		2
06148	Vanadium	7440-62-2	51.1	0.0243	0.111		2
06149	Zinc	7440-66-6	69.7	0.619	3.32		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0058 J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	502	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.17	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-059-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-059-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259089
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:06

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE128-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 20:59	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111082AA	04/18/2011 19:39	Sara E Johnson	20
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110524120	04/15/2011 17:16	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110524120	04/15/2011 17:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110524120	04/15/2011 17:30	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110524120	04/15/2011 17:14	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 17:42	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLJ026	04/23/2011 03:29	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLJ026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090012A	04/21/2011 16:26	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090012A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708005	04/27/2011 16:57	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026002A	04/26/2011 12:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026002A	04/26/2011 12:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026002D	04/26/2011 12:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026002A	04/26/2011 12:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026002A	04/26/2011 12:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026002A	04/26/2011 12:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026002A	04/26/2011 12:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026002A	04/26/2011 12:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026002A	04/26/2011 12:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026002C	04/26/2011 12:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026002A	04/26/2011 12:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026002B	04/26/2011 12:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026002A	04/26/2011 12:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026002A	04/26/2011 12:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026002A	04/26/2011 12:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026002A	04/26/2011 12:26	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-059-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259089
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:06

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE128-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111125711005	04/26/2011 09:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708005	04/25/2011 08:25	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026002	04/25/2011 08:38	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711005	04/25/2011 10:10	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202A	04/28/2011 17:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202A	04/29/2011 17:40	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 14:09	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202A	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202A	04/29/2011 10:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11111182102B	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259090
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE128-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.6		0.85
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.85
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.85
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.85
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.85
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.85
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.85
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.85
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.85
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.85
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.85
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.85
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.85
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.85
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.8		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.85
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.85
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.85
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.85
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.85
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.85
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.85
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.85
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.85
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.85
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.85
06192	Methylene Chloride	75-09-2	0.56	J	0.23	3.8		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.85

*=This limit was used in the evaluation of the final result
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Sample Description: SL-065-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259090
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE128-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.85
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.85
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.08
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-065-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259090
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE128-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	1.7	J	0.74	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-065-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259090
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE128-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.44	21.6		1
07914	Boron	7440-42-8	1.07	J	0.963	5.41		1
01650	Calcium	7440-70-2	3,170		6.63	21.6		1
01654	Iron	7439-89-6	25,500		5.10	21.6		1
01656	Lithium	7439-93-2	28.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,940		2.75	10.8		1
06958	Manganese	7439-96-5	293		0.0844	0.541		1
10145	Phosphorus	7723-14-0	520		0.606	10.8		1
01662	Potassium	7440-09-7	3,090		19.5	54.1		1
01667	Sodium	7440-23-5	90.0	J	40.4	108		1
07968	Strontium	7440-24-6	19.8		0.0671	0.541		1
06969	Tin	7440-31-5	2.97	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,150		0.411	1.08		1
10146	Zirconium	7440-67-7	1.21	J	0.909	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0669	U	0.0669	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.25		0.0892	0.446		2
06126	Barium	7440-39-3	83.6		0.120	0.446		2
06127	Beryllium	7440-41-7	0.561		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.0569	J	0.0446	0.111		2
06131	Chromium	7440-47-3	25.4		0.134	0.446		2
06132	Cobalt	7440-48-4	8.13		0.0223	0.111		2
06133	Copper	7440-50-8	13.4		0.0736	0.446		2
06135	Lead	7439-92-1	5.98		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.393		0.0557	0.111		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-065-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259090
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE128-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	19.0	0.111	0.446		2
06141	Selenium	7782-49-2	0.129 J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0242 J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.292	0.0334	0.111		2
06148	Vanadium	7440-62-2	40.6	0.0245	0.111		2
06149	Zinc	7440-66-6	64.6	0.624	3.34		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0164 J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.89 U	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	498	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.78	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-065-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-065-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259090
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE128-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 21:22	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111082AA	04/18/2011 19:59	Sara E Johnson	22.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110524120	04/15/2011 17:20	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110524120	04/15/2011 17:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110524120	04/15/2011 17:31	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110524120	04/15/2011 17:18	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 18:08	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLJ026	04/23/2011 04:01	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLJ026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090012A	04/21/2011 16:45	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090012A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708005	04/27/2011 17:01	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026002A	04/26/2011 12:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026002A	04/26/2011 12:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026002D	04/26/2011 12:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026002A	04/26/2011 12:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026002A	04/26/2011 12:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026002A	04/26/2011 12:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026002A	04/26/2011 12:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026002A	04/26/2011 12:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026002A	04/26/2011 12:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026002C	04/26/2011 12:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026002A	04/26/2011 12:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026002B	04/26/2011 12:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026002A	04/26/2011 12:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026002A	04/26/2011 12:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026002A	04/26/2011 12:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026002A	04/26/2011 12:29	Choon Y Tian	2

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Sample Description: **SL-065-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259090
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE128-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111125711005	04/26/2011 09:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708005	04/25/2011 08:25	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026002	04/25/2011 08:38	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711005	04/25/2011 10:10	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202A	04/28/2011 17:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202A	04/29/2011 18:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11116243201A	05/02/2011 14:31	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202A	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202A	04/29/2011 10:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11111182102B	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-242-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259091
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL242 SDG#: DE128-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.1		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.88
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.88
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.88
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.88
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.88
06192	Methylene Chloride	75-09-2	0.56	J	0.24	4.1		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.88

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Sample Description: SL-242-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259091
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL242 SDG#: DE128-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.1		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.89
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	33.4	J	18.9	37.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1

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Sample Description: SL-242-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259091
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL242 SDG#: DE128-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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Sample Description: SL-242-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259091
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL242 SDG#: DE128-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.4
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	220	J	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: **SL-242-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259091
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL242 SDG#: DE128-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.4		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	4.9		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
	Target analytes were detected in the method blank associated with the sample as noted on the QC summary. The sample was re-extracted outside the method hold time. The C21-C30 and C30-C40 results for the re-extraction are non-detect and 1.6 mg/kg respectively. All results are reported from the original extract.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,400		5.64	22.4		1
07914	Boron	7440-42-8	1.44	J	0.998	5.61		1

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Sample Description: **SL-242-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259091
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL242 SDG#: DE128-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,500		6.87	22.4		1
01654	Iron	7439-89-6	26,800		5.28	22.4		1
01656	Lithium	7439-93-2	33.2		0.25	2.2		1
01657	Magnesium	7439-95-4	5,660		2.85	11.2		1
06958	Manganese	7439-96-5	234		0.0874	0.561		1
10145	Phosphorus	7723-14-0	190		0.628	11.2		1
01662	Potassium	7440-09-7	1,930		20.2	56.1		1
01667	Sodium	7440-23-5	129		41.8	112		1
07968	Strontium	7440-24-6	26.2		0.0695	0.561		1
06969	Tin	7440-31-5	3.31	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,210		0.426	1.12		1
10146	Zirconium	7440-67-7	1.64	J	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0673	U	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.28		0.0897	0.448		2
06126	Barium	7440-39-3	95.7		0.121	0.448		2
06127	Beryllium	7440-41-7	0.922		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0491	J	0.0448	0.112		2
06131	Chromium	7440-47-3	22.6		0.135	0.448		2
06132	Cobalt	7440-48-4	7.58		0.0224	0.112		2
06133	Copper	7440-50-8	10.8		0.0740	0.448		2
06135	Lead	7439-92-1	7.57		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.588		0.0561	0.112		2
06139	Nickel	7440-02-0	15.3		0.112	0.448		2
06141	Selenium	7782-49-2	0.0900	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0423	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.239		0.0336	0.112		2
06148	Vanadium	7440-62-2	43.6		0.0247	0.112		2
06149	Zinc	7440-66-6	52.6		0.628	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0176	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-242-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259091
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL242 SDG#: DE128-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	496		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.77		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-242-SA5A-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011	21:44	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111082AA	04/18/2011	20:19	Sara E Johnson	21.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110524120	04/15/2011	17:27	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110524120	04/15/2011	17:31	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110524120	04/15/2011	17:31	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110524120	04/15/2011	17:25	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011	17:03	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011	18:35	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLJ026	04/23/2011	04:33	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011	09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLJ026	04/20/2011	09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011	17:05	JoElla L Rice	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-242-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259091
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL242 SDG#: DE128-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34A	04/22/2011 12:44	Elizabeth J Marin	21.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201110524120	04/15/2011 17:24	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/05/2011 03:40	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 02:52	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090012A	04/21/2011 17:03	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090012A	04/19/2011 16:10	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 05:11	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111090025A	04/20/2011 22:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 20:10	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 08:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	111090025A	04/19/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708005	04/27/2011 17:05	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026002A	04/26/2011 12:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026002A	04/26/2011 12:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026002D	04/26/2011 12:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026002A	04/26/2011 12:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026002A	04/26/2011 12:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026002A	04/26/2011 12:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026002A	04/26/2011 12:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026002A	04/26/2011 12:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026002A	04/26/2011 12:33	Choon Y Tian	2

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Sample Description: **SL-242-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259091
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL242 SDG#: DE128-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111121026002C	04/26/2011 16:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026002A	04/26/2011 12:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026002B	04/26/2011 12:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026002A	04/26/2011 12:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026002A	04/26/2011 12:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026002A	04/26/2011 12:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026002A	04/26/2011 12:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711005	04/26/2011 09:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708005	04/25/2011 08:25	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026002	04/25/2011 08:38	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711005	04/25/2011 10:10	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202A	04/28/2011 17:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11118621202A	04/28/2011 17:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202A	04/29/2011 18:46	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 14:37	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201A	04/25/2011 14:48	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202A	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202A	04/29/2011 10:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201A	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182102B	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: TB-041411 Water
SSFL Area IV Collocated Soil Sampling
TB-041411

LLI Sample # WW 6259092
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB414 SDG#: DE128-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

Sample Description: TB-041411 Water
SSFL Area IV Collocated Soil Sampling
TB-041411

LLI Sample # WW 6259092
LLI Group # 1242330
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB414 SDG#: DE128-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111081AA	04/18/2011	06:08	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111081AA	04/18/2011	11:16	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y111081AA	04/18/2011	06:08	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111081AA	04/18/2011	11:16	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11111B20A	04/22/2011	15:10	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11111B20A	04/22/2011	15:10	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111092AA	Sample number(s): 6259084-6259087,6259089-6259091									
Acetone	6.7	U	6.7	8.0	ug/kg	94		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	102		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	104		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	118		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	91		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	89		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	84		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	91		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	105		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	110		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	102		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	92		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	84		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	74		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	98		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	87		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	94		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	89		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	92		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	93		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	99		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	100		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	78		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	97		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	91		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	108		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	100		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	82		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	97		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	90		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	85		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	113		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	102		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	96		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	88		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	91		61-134		
Methylene Chloride	3.4	J	0.24	4.0	ug/kg	110		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	109		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	93		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	93		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	104		77-120		
Toluene	0.11	J	0.08	4.0	ug/kg	101		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	93		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	93		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	88		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	94		80-120		
Batch number: E111081AA	Sample number(s): 6259092									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	114	119	80-123	4	30
Batch number: E111082AA	Sample number(s): 6259084-6259087,6259089-6259091									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	115	70-130	6	30
Batch number: Y111081AA	Sample number(s): 6259092									
Acetone	6	U	6.	20	ug/l	117	117	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	104	104	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	101	101	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	111	109	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	98	95	80-120	2	30
Bromoform	1	U	1.	5	ug/l	79	79	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	93	90	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	115	115	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	96	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	98	98	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	107	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	81	80	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	99	100	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	108	107	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	96	94	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	98	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	98	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	105	104	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	81	82	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	93	93	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	103	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	105	104	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	99	100	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	98	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	92	91	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	102	79-120	0	30

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	117	117	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	102	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	101	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	99	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	103	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	89	90	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	103	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	92	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	86	88	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	100	79-120	0	30
Freon 113	2	U	2.	10	ug/l	115	114	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	123*	124*	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	84	86	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	104	105	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	100	101	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	97	98	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	101	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	100	103	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	107	104	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	100	100	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	95	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	102	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	101	101	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	92	93	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	86	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	104	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	102	103	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	104	102	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	116	114	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	102	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	97	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	101	99	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	88	88	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	101	100	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30

Batch number: 11109SLJ026 Sample number(s): 6259084-6259087,6259089-6259091

Acenaphthene	0.67	U	0.67	1.7	ug/kg	101	63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	102	60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	103	55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	106	74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	105	58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	117	63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	118	44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	109	54-142
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107	65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	103	75-137
Chrysene	0.33	U	0.33	1.7	ug/kg	107	73-114
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	117	53-138
Diethylphthalate	6.0	U	6.0	18	ug/kg	92	68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	111	79-121
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	116	67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	105	64-120
Fluorene	0.67	U	0.67	1.7	ug/kg	109	71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	118	56-134

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	100		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	94		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	113		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	104		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	108		56-121		
Batch number: 11110SLG026	Sample number(s): 6259091									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	74		70-130		
Batch number: 11112SLA026	Sample number(s): 6259084-6259087,6259089-6259091									
Acenaphthene	17	U	17.	170	ug/kg	97		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	96		75-122		
Aniline	170 U		170.	500	ug/kg	78		34-94		
Anthracene	17	U	17.	170	ug/kg	94		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	74		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	99		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	97		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	93		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	100		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	99		67-125		
Benzoic acid	170 U		170.	500	ug/kg	104		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	107		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	95		79-112		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	62		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	90		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	92		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		79-110		
Chrysene	17	U	17.	170	ug/kg	101		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	100		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	58		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	94		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	102		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	107		73-115		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	104		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	106		75-117		
Fluoranthene	17	U	17.	170	ug/kg	93		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	81		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	59		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	75		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	93		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	97		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	91		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
Naphthalene	17	U	17.	170	ug/kg	91		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	99		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	78		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	89		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	102		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	97		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	71		51-117		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	100		58-112		
Pyrene	17	U	17.	170	ug/kg	99		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	81		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11111B20A	Sample number(s): 6259092									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 11112A34A	Sample number(s): 6259091									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69		67-119		
Batch number: 111080011A	Sample number(s): 6259091									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	120		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	106	105	54-134	1	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	106	104	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	119		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	115		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
HMX	100	U	100.	300	ug/kg	110		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	95		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	115		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	117		73-127		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80 U	U	80.	120	ug/kg	112		80-120		
PETN	800 U	U	800.	2,400	ug/kg	127*		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	79		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	119		80-120		
Batch number: 111150004A	Sample number(s): 6259091									
25a Formaldehyde 8315A	600 U	U	600.	1,500	ug/kg	98		80-126		
Batch number: 111090012A	Sample number(s): 6259084-6259087,6259089-6259091									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	93	89	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	91		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111090022A	Sample number(s): 6259091									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	93		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C21-C30)	0.93	J	0.40	1.2	mg/kg	98		66-113		
EFH (C30 - C40)	0.92	J	0.40	1.2	mg/kg	85		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	70		66-113		
Batch number: 111090025A	Sample number(s): 6259091									
Ethanol	100 U	U	100.	500	ug/kg	92		71-129		
Isopropanol	100 U	U	100.	500	ug/kg	92		75-125		
Methanol	100 J	J	100.	500	ug/kg	93		68-129		
Batch number: 111100003A	Sample number(s): 6259091									
Diethylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	109		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Batch number: 111100030A	Sample number(s): 6259091									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	91		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
Batch number: 111121026002A	Sample number(s): 6259084-6259091									
Antimony	0.0594	U	0.0594	0.198	mg/kg	69		27-181		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	103		83-113		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	103		86-111		
Cadmium	0.0396	U	0.0396	0.0990	mg/kg	101		82-118		
Chromium	0.119	U	0.119	0.396	mg/kg	107		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cobalt	0.0198 U	0.0198	0.0990	mg/kg	108		82-118		
Copper	0.0653 U	0.0653	0.396	mg/kg	104		83-110		
Lead	0.0103 U	0.0103	0.198	mg/kg	100		83-110		
Nickel	0.0990 U	0.0990	0.396	mg/kg	98		81-110		
Silver	0.0119 U	0.0119	0.0990	mg/kg	98		81-111		
Thallium	0.0297 U	0.0297	0.0990	mg/kg	98		83-110		
Vanadium	0.0667 J	0.0218	0.0990	mg/kg	99		84-116		
Zinc	0.554 U	0.554	2.97	mg/kg	106		81-112		
Batch number: 111121026002B	Sample number(s): 6259084-6259091								
Selenium	0.0396 U	0.0396	0.396	mg/kg	100		83-111		
Batch number: 111121026002C	Sample number(s): 6259084-6259091								
Molybdenum	0.0495 U	0.0495	0.0990	mg/kg	109		78-122		
Batch number: 111121026002D	Sample number(s): 6259084-6259091								
Barium	0.107 U	0.107	0.396	mg/kg	99		81-111		
Batch number: 111125708005	Sample number(s): 6259084-6259091								
Aluminum	6.31 J	5.03	20.0	mg/kg	94		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	96		78-110		
Calcium	12.3 J	6.13	20.0	mg/kg	101		88-110		
Iron	5.24 J	4.71	20.0	mg/kg	87		61-110		
Lithium	0.56 J	0.22	2.0	mg/kg	106		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	100		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	100		89-112		
Phosphorus	1.45 J	0.560	10.0	mg/kg	112		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3 U	37.3	100	mg/kg	101		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	102		86-110		
Tin	1.82 J	1.00	10.0	mg/kg	99		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	80		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	108		80-120		
Batch number: 111125711005	Sample number(s): 6259084-6259091								
Mercury	0.0028 U	0.0028	0.0969	mg/kg	93		88-123		
Batch number: 11114102201A	Sample number(s): 6259091								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	106		80-120		
Batch number: 11116243201A	Sample number(s): 6259084-6259086,6259088-6259091								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	100		80-120		
Batch number: 11118621202A	Sample number(s): 6259084-6259086,6259088-6259091								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	98		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	97		90-110		
Batch number: 11119621202A	Sample number(s): 6259084-6259086,6259088-6259091								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11111039402B	Sample number(s): 6259084-6259085,6259088-6259091								
18a pH by 9045C					100		95-105		
Batch number: 11111182102B	Sample number(s): 6259084-6259085,6259088-6259091								
32a OR Potential					100		98-102		
Batch number: 11116162401B	Sample number(s): 6259084-6259090								
28a Moisture Content by 160.3					100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11129162401A	Sample number(s): 6259091								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111092AA	Sample number(s): 6259084-6259087,6259089-6259091 UNSPK: 6259085								
Acetone	78	80	15-210	6	30				
Benzene	102	99	55-143	1	30				
Bromobenzene	94	89	43-139	2	30				
Bromochloromethane	115	116	60-137	5	30				
Bromodichloromethane	88	87	53-136	3	30				
Bromoform	81	81	38-124	5	30				
Bromomethane	86	80	42-168	3	30				
2-Butanone	74	79	37-163	11	30				
n-Butylbenzene	82	61	30-146	26	30				
sec-Butylbenzene	89	71	33-157	19	30				
tert-Butylbenzene	86	73	41-152	13	30				
Carbon Tetrachloride	92	89	45-153	0	30				
Chlorobenzene	91	85	49-135	3	30				
Chloroethane	87	82	39-152	2	30				
2-Chloroethyl Vinyl Ether	51	58	32-139	16	30				
Chloroform	96	94	61-142	2	30				
Chloromethane	93	94	51-163	5	30				
2-Chlorotoluene	90	79	42-146	9	30				
4-Chlorotoluene	89	78	39-145	10	30				
Chlorotrifluoroethene	99	90	70-130	32*	30				
1,2-Dibromo-3-chloropropane	71	74	30-139	7	30				
Dibromochloromethane	85	85	51-128	3	30				
1,2-Dibromoethane	89	91	54-129	6	30				
Dibromomethane	88	88	57-130	3	30				
1,2-Dichlorobenzene	87	82	36-133	3	30				
1,3-Dichlorobenzene	89	80	34-134	7	30				
1,4-Dichlorobenzene	89	81	35-136	5	30				
Dichlorodifluoromethane	82	80	26-151	2	30				
1,1-Dichloroethane	98	96	63-142	3	30				
1,2-Dichloroethane	87	87	68-131	3	30				
1,1-Dichloroethene	113	113	61-149	4	30				
cis-1,2-Dichloroethene	98	95	60-136	1	30				
trans-1,2-Dichloroethene	102	99	59-142	1	30				
1,2-Dichloropropane	96	95	62-135	3	30				
1,3-Dichloropropane	90	91	58-129	4	30				
2,2-Dichloropropane	83	83	53-147	4	30				
1,1-Dichloropropene	96	90	54-145	2	30				
cis-1,3-Dichloropropene	84	84	51-131	5	30				
trans-1,3-Dichloropropene	77	78	49-129	6	30				
Ethylbenzene	88	78	44-141	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Freon 113	120	122	56-156	6	30				
Freon 133a	114	111	61-131	25	30				
Hexachlorobutadiene	75	57	10-155	24	30				
2-Hexanone	75	81	32-160	12	30				
Isopropylbenzene	86	72	38-144	14	30				
p-Isopropyltoluene	86	67	29-152	20	30				
Methyl Tertiary Butyl Ether	80	84	55-129	9	30				
4-Methyl-2-pentanone	75	80	46-139	10	30				
Methylene Chloride	103	104	61-141	5	30				
n-Propylbenzene	92	79	39-157	11	30				
Styrene	86	77	35-134	7	30				
1,1,1,2-Tetrachloroethane	87	84	52-130	1	30				
1,1,2,2-Tetrachloroethane	91	94	40-152	7	30				
Tetrachloroethene	91	81	42-149	8	30				
Toluene	96	89	50-146	3	30				
1,2,3-Trichlorobenzene	82	80	10-140	0	30				
1,2,4-Trichlorobenzene	76	72	10-136	1	30				
1,1,1-Trichloroethane	92	92	64-142	4	30				
1,1,2-Trichloroethane	92	92	54-139	4	30				
Trichloroethene	94	88	53-144	2	30				
Trichlorofluoromethane	102	100	47-163	2	30				
1,2,3-Trichloropropane	87	91	45-154	8	30				
1,2,4-Trimethylbenzene	89	77	37-149	11	30				
1,3,5-Trimethylbenzene	90	77	38-150	12	30				
Vinyl Chloride	95	97	50-154	6	30				
m+p-Xylene	88	77	44-137	10	30				
o-Xylene	85	77	42-137	6	30				
Batch number: E111082AA	Sample number(s): 6259084-6259087,6259089-6259091 UNSPK: 6259085								
1,4-Dioxane	122	113	70-130	4	30				
Batch number: 11109SLJ026	Sample number(s): 6259084-6259087,6259089-6259091 UNSPK: 6259085								
Acenaphthene	93	102	63-105	9	30				
Acenaphthylene	91	101	67-114	11	30				
Anthracene	96	102	60-122	7	30				
Benzo(a)anthracene	98	104	59-128	6	30				
Benzo(a)pyrene	96	103	45-138	7	30				
Benzo(b)fluoranthene	99	108	43-155	9	30				
Benzo(g,h,i)perylene	88	92	33-141	4	30				
Benzo(k)fluoranthene	100	106	42-144	7	30				
Butylbenzylphthalate	96	100	57-173	4	30				
Di-n-butylphthalate	100	103	65-148	3	30				
Chrysene	98	103	48-134	5	30				
Dibenz(a,h)anthracene	97	101	22-133	5	30				
Diethylphthalate	84	87	70-136	4	30				
Dimethylphthalate	101	108	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	109	110	39-167	1	30				
Fluoranthene	102	108	26-166	6	30				
Fluorene	93	103	66-122	11	30				
Indeno(1,2,3-cd)pyrene	96	100	21-143	4	30				
1-Methylnaphthalene	87	97	72-123	12	30				
2-Methylnaphthalene	77	87	64-103	13	30				
Naphthalene	81	91	61-102	12	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodimethylamine	97	98	48-113	2	30				
Di-n-octylphthalate	103	104	40-192	2	30				
Phenanthrene	95	101	12-165	6	30				
Pyrene	90	95	15-153	6	30				
Batch number: 11110SLG026	Sample number(s): 6259091 UNSPK: P259054								
N-Nitrosodimethylamine	0*	0*	70-130	0	30				
Batch number: 11112SLA026	Sample number(s): 6259084-6259087,6259089-6259091 UNSPK: 6259085								
Acenaphthene	93	87	75-115	6	30				
Acenaphthylene	95	92	81-110	4	30				
Aniline	77	82	35-95	6	30				
Anthracene	95	95	75-115	0	30				
Benzidine	14*	24*	35-141	53*	30				
Benzo(a)anthracene	98	92	65-122	6	30				
Benzo(a)pyrene	101	102	57-126	1	30				
Benzo(b)fluoranthene	100	90	59-125	11	30				
Benzo(g,h,i)perylene	102	99	59-127	3	30				
Benzo(k)fluoranthene	101	102	56-132	1	30				
Benzoic acid	117	107	10-173	9	30				
Benzyl alcohol	97	100	67-115	3	30				
4-Bromophenyl-phenylether	89	84	67-129	6	30				
Butylbenzylphthalate	105	107	73-134	2	30				
Di-n-butylphthalate	94	93	67-123	1	30				
Carbazole	96	95	64-120	1	30				
4-Chloro-3-methylphenol	103	97	76-110	6	30				
4-Chloroaniline	60	77	23-95	25	30				
bis(2-Chloroethoxy)methane	89	91	75-104	3	30				
bis(2-Chloroethyl)ether	96	95	60-116	0	30				
bis(2-Chloroisopropyl)ether	85	85	55-142	1	30				
2-Chloronaphthalene	66	87	50-141	28	30				
2-Chlorophenol	99	98	73-121	1	30				
4-Chlorophenyl-phenylether	93	89	80-109	4	30				
Chrysene	99	96	62-128	3	30				
Dibenz(a,h)anthracene	101	98	65-125	3	30				
Dibenzofuran	94	91	71-112	3	30				
1,2-Dichlorobenzene	86	89	66-108	4	30				
1,3-Dichlorobenzene	82	83	63-109	1	30				
1,4-Dichlorobenzene	85	86	70-100	1	30				
3,3'-Dichlorobenzidine	49	52	16-119	6	30				
2,4-Dichlorophenol	93	93	78-117	0	30				
Diethylphthalate	99	92	66-118	7	30				
2,4-Dimethylphenol	94	93	78-110	0	30				
3,5-Dimethylphenol	102	103	70-130	1	30				
Dimethylphthalate	94	94	64-118	0	30				
4,6-Dinitro-2-methylphenol	81	72	24-116	11	30				
2,4-Dinitrophenol	71	50	20-143	35*	30				
2,4-Dinitrotoluene	99	101	73-113	3	30				
2,6-Dinitrotoluene	100	96	69-123	4	30				
1,2-Diphenylhydrazine	91	90	71-129	1	30				
bis(2-Ethylhexyl)phthalate	107	99	63-122	7	30				
Fluoranthene	95	93	73-112	2	30				
Fluorene	95	91	77-111	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorobenzene	88	88	77-114	0	30				
Hexachlorobutadiene	79	77	62-120	2	30				
Hexachlorocyclopentadiene	45	56	10-153	22	30				
Hexachloroethane	76	78	57-109	3	30				
Indeno(1,2,3-cd)pyrene	97	95	61-126	2	30				
Isophorone	92	93	73-102	1	30				
1-Methylnaphthalene	97	95	73-112	2	30				
2-Methylnaphthalene	86	89	76-114	3	30				
2-Methylphenol	98	99	75-111	1	30				
4-Methylphenol	98	96	71-111	2	30				
Naphthalene	89	89	72-116	1	30				
2-Nitroaniline	110	105	67-125	4	30				
3-Nitroaniline	100	95	59-122	5	30				
4-Nitroaniline	80	83	52-112	3	30				
Nitrobenzene	93	92	72-106	1	30				
2-Nitrophenol	90	99	74-115	10	30				
4-Nitrophenol	88	81	54-113	8	30				
N-Nitroso-di-n-propylamine	90	93	60-116	3	30				
N-Nitrosodimethylamine	109	103	47-116	6	30				
N-Nitrosodiphenylamine	93	91	86-145	2	30				
Di-n-octylphthalate	101	100	56-126	1	30				
Pentachlorophenol	83	79	28-127	5	30				
Phenanthrene	91	90	65-125	1	30				
Phenol	99	102	58-126	3	30				
Pyrene	100	98	74-126	3	30				
1,2,4-Trichlorobenzene	88	84	72-115	4	30				
2,4,5-Trichlorophenol	92	96	78-109	4	30				
2,4,6-Trichlorophenol	92	87	77-115	6	30				
Batch number: 11112A34A	Sample number(s): 6259091 UNSPK: P264845								
9a TPH by EPA 8015B Gas C5-C12	62	61	39-118	7	30				
Batch number: 111080011A	Sample number(s): 6259091 UNSPK: P259054								
4-Amino-2,6-Dinitrotoluene	92	104	80-127	12	50				
2-Amino-4,6-Dinitrotoluene	89	101	80-137	12	50				
1,3-Dinitrobenzene	91	103	38-166	12	50				
2,4-Dinitrotoluene	88	100	80-131	13	50				
2,6-Dinitrotoluene	93	104	80-127	11	50				
HMX	82	91	63-128	10	50				
Nitrobenzene	86	96	80-125	11	50				
Nitroglycerin	81	92	80-120	12	50				
2-Nitrotoluene	88	99	80-122	12	50				
3-Nitrotoluene	91	103	72-119	12	50				
4-Nitrotoluene	86	98	80-125	13	50				
PETN	99	112	80-121	12	50				
RDX	76	84	75-129	9	50				
Tetryl	57	64	55-174	11	50				
1,3,5-Trinitrobenzene	85	95	82-126	11	50				
2,4,6-Trinitrotoluene	88	101	82-130	13	50				
Batch number: 111150004A	Sample number(s): 6259091 UNSPK: P255761								
25a Formaldehyde 8315A	88	97	80-120	3	50				

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111090012A	Sample number(s): 6259084-6259087,6259089-6259091 UNSPK: 6259085								
PCB-1016	91	87	29-146	4	50				
PCB-1260	108	106	39-149	1	50				
Batch number: 111090022A	Sample number(s): 6259091 UNSPK: P257874								
EFH (C12-C14)	101	84	49-123	16	20				
EFH (C15-C20)	106	83	49-123	10	20				
EFH (C21-C30)	-11 (2)	-128 (2)	49-123	21*	20				
EFH (C30 - C40)	-1743 (2)	-1815 (2)	49-123	9	20				
EFH (C8-C11)	73	61	49-123	17	20				
Batch number: 111090025A	Sample number(s): 6259091 UNSPK: P261697								
Ethanol	63	61	48-130	3	20				
Isopropanol	66	66	12-149	0	20				
Methanol	53	53	43-138	0	20				
Batch number: 111100003A	Sample number(s): 6259091 UNSPK: P259058								
Diethylene glycol	78	92	59-109	16	20				
Ethylene glycol	91	95	63-107	3	20				
Propylene glycol	93	93	63-107	0	20				
Batch number: 111100030A	Sample number(s): 6259091 UNSPK: P259054								
m-Terphenyl	85	83	75-125	2	20				
o-Terphenyl	92	88	75-125	4	20				
p-Terphenyl	85	86	75-125	1	20				
Batch number: 111121026002A	Sample number(s): 6259084-6259091 UNSPK: 6259085 BKG: 6259085								
Antimony	34*	28*	75-125	16	20	0.0658 J	0.0645 J	2 (1)	20
Arsenic	94	471*	75-125	71*	20	4.97	6.11	21*	20
Beryllium	98	148*	75-125	25*	20	0.602	0.556	8	20
Cadmium	114	108	75-125	4	20	0.0926 J	0.143	43* (1)	20
Chromium	97	228*	75-125	37*	20	19.2	21.0	9	20
Cobalt	116	122	75-125	5	20	6.39	6.88	7	20
Copper	112	182*	75-125	27*	20	11.4	14.5	24*	20
Lead	102	302*	75-125	51*	20	5.63	5.90	5	20
Nickel	117	188*	75-125	24*	20	14.8	16.4	10	20
Silver	111	114	75-125	2	20	0.0263 J	0.0564 J	73* (1)	20
Thallium	112	134*	75-125	12	20	0.239	0.299	22* (1)	20
Vanadium	96	287*	75-125	36*	20	33.1	34.6	4	20
Zinc	112 (2)	276 (2)	75-125	22*	20	53.4	61.5	14	20
Batch number: 111121026002B	Sample number(s): 6259084-6259091 UNSPK: 6259085 BKG: 6259085								
Selenium	100	98	75-125	2	20	0.138 J	0.127 J	9 (1)	20
Batch number: 111121026002C	Sample number(s): 6259084-6259091 UNSPK: 6259085 BKG: 6259085								
Molybdenum	106	97	75-125	8	20	0.426	0.489	14 (1)	20
Batch number: 111121026002D	Sample number(s): 6259084-6259091 UNSPK: 6259085 BKG: 6259085								
Barium	100 (2)	336 (2)	75-125	21*	20	90.1	96.9	7	20
Batch number: 111125708005	Sample number(s): 6259084-6259091 UNSPK: 6259085 BKG: 6259085								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Aluminum	739 (2)	6132 (2)	75-125	51*	20	14,200	13,600	4	20
Boron	101	96	84-115	3	20	2.19 J	1.68 J	26* (1)	20
Calcium	166 (2)	576 (2)	75-125	46*	20	2,130	2,130	0	20
Iron	252 (2)	21588 (2)	75-125	71*	20	19,200	19,200	0	20
Lithium	112	126*	82-114	11	20	23.2	24.2	5	20
Magnesium	191 (2)	1884 (2)	75-125	53*	20	4,270	4,340	2	20
Manganese	146 (2)	254 (2)	75-125	16	20	237	259	9	20
Phosphorus	151*	101	75-125	11	20	335	357	6	20
Potassium	141*	106	75-125	9	20	2,710	2,690	1	20
Sodium	107	111	75-125	5	20	72.7 J	74.7 J	3 (1)	20
Strontium	104	116*	75-115	10	20	16.2	16.0	1	20
Tin	92	85	80-110	7	20	2.64 J	2.54 J	4 (1)	20
Titanium	314 (2)	477 (2)	75-125	13	20	923	915	1	20
Zirconium	103	100	75-125	2	20	1.17 J	1.98 J	52* (1)	20
Batch number: 111125711005	Sample number(s): 6259084-6259091 UNSPK: 6259085 BKG: 6259085								
Mercury	102	104	65-135	2	20	0.0027 U	0.0028 U	0 (1)	20
Batch number: 11114102201A	Sample number(s): 6259091 UNSPK: P259054 BKG: P259054								
17a Cyanide by 9012B	108		75-125			0.18 U	0.19 U	0 (1)	20
Batch number: 11116243201A	Sample number(s): 6259084-6259086,6259088-6259091 UNSPK: 6259085 BKG: 6259085								
3a Cr VI by EPA 7199	96		75-125			0.48 J	0.78 J	48* (1)	20
Batch number: 11118621202A	Sample number(s): 6259084-6259086,6259088-6259091 UNSPK: 6259085 BKG: 6259085								
11a Anions by 300.0 - Fluoride	38*		80-120			1.0	0.94 J	7 (1)	20
11a Anions by 300.0 - Nitrate	93		80-120			0.91 J	0.92 J	0 (1)	20
Batch number: 11119621202A	Sample number(s): 6259084-6259086,6259088-6259091 UNSPK: 6259085 BKG: 6259085								
7a Perchlorate EPA 314.0	95		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11111039402B	Sample number(s): 6259084-6259085,6259088-6259091 BKG: P111039								
18a pH by 9045C						6.47	6.42	1	1
Batch number: 11111182102B	Sample number(s): 6259084-6259085,6259088-6259091 BKG: 6259085								
32a OR Potential						451	454	1	6
Batch number: 11116162401B	Sample number(s): 6259084-6259090 BKG: 6259085								
28a Moisture Content by 160.3						9.0	9.0	0	20
Moisture Content by 160.3						9.0	9.0	0	20
Moisture Content by 160.3						9.0	9.0	0	20
Batch number: 11129162401A	Sample number(s): 6259091 BKG: P259054								
Moisture Content by 160.3						14.6	14.7	1	20

Surrogate Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111092AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6259084	98	97	101	89
6259085	98	97	102	90
6259086	97	96	103	96
6259087	96	99	103	96
6259089	97	99	100	89
6259090	98	101	100	88
6259091	98	100	99	88
Blank	98	100	101	90
LCS	99	99	103	95
MS	97	96	103	96
MSD	96	99	103	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111081AA

	Toluene-d8
6259092	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111082AA

	Toluene-d8
6259084	98
6259085	97
6259086	98
6259087	98
6259089	97
6259090	97
6259091	98
Blank	98
LCS	98
LCSD	98
MS	98
MSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111081AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6259092	106	103	103	94
Blank	106	101	102	94

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Surrogate Quality Control

LCS	105	103	105	100
LCSD	104	102	104	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11109SLJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6259084	101	91	94
6259085	100	89	91
6259086	102	94	89
6259087	99	93	90
6259089	100	90	95
6259090	102	96	92
6259091	102	93	97
Blank	115	108	121
LCS	107	99	101
MS	102	94	89
MSD	99	93	90
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11110SLG026

	N-Nitrosodimethylamine-d6
6259091	90
Blank	68
LCS	61
MS	89
MSD	92
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11112SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6259084	95	98	105	89	88	89
6259085	95	95	109	86	89	88
6259086	103	102	106	90	86	92
6259087	105	101	106	88	83	87
6259089	90	88	105	83	84	91
6259090	98	95	111	81	88	92
6259091	95	97	103	84	82	91
Blank	94	94	105	85	86	95
LCS	100	97	106	87	87	90
MS	103	102	106	90	86	92
MSD	105	101	106	88	83	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11111B20A

	Trifluorotoluene-F

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Surrogate Quality Control

6259092	73
Blank	73
LCS	115
LCSD	115
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11112A34A

	Trifluorotoluene-F
6259091	77
Blank	91
LCS	89
MS	79
MSD	73
Limits:	61-122

Analysis Name: 16a Energetics by 8330A
Batch number: 111080011A

	2-Nitro-m-xylene
6259091	114
Blank	113
LCS	111
LCSD	108
MS	88
MSD	100
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111090012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6259084	104	120
6259085	111	121*
6259086	98	116
6259087	98	113
6259089	102	110
6259090	106	114
6259091	105	119
Blank	98	93
LCS	96	110
LCSD	103	120
MS	98	116
MSD	98	113
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111150004A

	Butyraldehyde
6259091	96

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242330
Reported: 05/10/11 at 11:00 AM

Surrogate Quality Control

Blank	100	
LCS	101	
MS	96	
MSD	95	
Limits:	64-126	

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111090022A

	Chlorobenzene	Orthoterphenyl
6259091	58	67
Blank	64	67
LCS	66	75
MS	68	73
MSD	66	71
Limits:	37-125	47-145

Analysis Name: 19a Alcohols by 8015B
Batch number: 111090025A

	Acetone
6259091	75
Blank	94
LCS	91
MS	73
MSD	73
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111100003A

	Tetramethylene glycol
6259091	71
Blank	104
LCS	104
MS	110
MSD	91
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111100030A

	n-Triacontane-d62
6259091	70
Blank	103
LCS	77
MS	118
MSD	218*
Limits:	50-150

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13013 1242330 6259084-92

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz jar collected from the same interval from which Encores were collected						*Metals: EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahydrofuran EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER (NLM 4/19/11) SA5A	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
DUP14-~~SA5C~~-QC-041411	04.14.11	1016	SOIL	NONE	4-Encores										X	X											
DUP14-~~SA5C~~-QC-041411	04.14.11	1016	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-058-SA5A-SB-3.5MS	04.14.11	1005	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-058-SA5A-SB-3.0-4.0MS	04.14.11	1009	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X	X														MS/MSD
SL-059-SA5A-SB-3.5	04.14.11	1101	SOIL	NONE	4-Encores										X	X											
SL-059-SA5A-SB-3.0-4.0	04.14.11	1106	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-065-SA5A-SB-4.5	04.14.11	1254	SOIL	NONE	4-Encores										X	X											
SL-065-SA5A-SB-4.0-5.0	04.14.11	1258	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-242-SA5A-SB-3.0	04.14.11	1549	SOIL	NONE	5-Encores										X	X	X										
SL-242-SA5A-SB-2.5-3.5	04.14.11	1554	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-041411	04.14.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time		Received for Laboratory by: (Signature)																								Laboratory:
	04/14/2011 / 1700		4/15/11 955																								Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s)																								
			8695 1367 6216; 8700 5932 3168 8700 5930 9896																								

The sample ID for DUP14 was updated to DUP14-SA5A-QC-041411 per PH. NLM 4/19/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/15/2011
Group Number: 1242332
SDG: DX072
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP14-SA5A-QC-041411 Soil	6259104
SL-058-SA5A-SB-3.0-4.0 Soil	6259105
SL-058-SA5A-SB-3.0-4.0MS Soil	6259106
SL-058-SA5A-SB-3.0-4.0MSD Soil	6259107
SL-059-SA5A-SB-3.0-4.0 Soil	6259108
SL-065-SA5A-SB-4.0-5.0 Soil	6259109
SL-242-SA5A-SB-2.5-3.5 Soil	6259110

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP14-SA5A-QC-041411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259104
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP14 SDG#: DX072-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP14-SA5A-QC-041411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259104
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP14 SDG#: DX072-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0705	JB	0.0317	1.09	1
11031	12378-PeCDD	40321-76-4	0.270	J	0.0480	5.46	1
11031	123478-HxCDD	39227-28-6	0.197	JB	0.0335	5.46	1
11031	123678-HxCDD	57653-85-7	0.256	JBQ	0.0359	5.46	1
11031	123789-HxCDD	19408-74-3	0.218	JB	0.0350	5.46	1
11031	1234678-HpCDD	35822-46-9	0.326	JBQ	0.0382	5.46	1
11031	OCDD	3268-87-9	0.851	JB	0.0356	10.9	1
11031	2378-TCDF	51207-31-9	0.240	JBQ	0.0337	1.09	1
11031	12378-PeCDF	57117-41-6	0.317	JBQ	0.0155	5.46	1
11031	23478-PeCDF	57117-31-4	0.309	JB	0.0195	5.46	1
11031	123478-HxCDF	70648-26-9	0.221	JB	0.0341	5.46	1
11031	123678-HxCDF	57117-44-9	0.193	JB	0.0271	5.46	1
11031	123789-HxCDF	72918-21-9	0.267	JB	0.0371	5.46	1
11031	234678-HxCDF	60851-34-5	0.212	JB	0.0263	5.46	1
11031	1234678-HpCDF	67562-39-4	0.365	JB	0.0200	5.46	1
11031	1234789-HpCDF	55673-89-7	0.278	JB	0.0425	5.46	1
11031	OCDF	39001-02-0	0.569	JB	0.0621	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	56	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	62	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	52	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	55	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	51	28 - 136
13C12-123789-HxCDF	42	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	40	26 - 138
13C12-OCDF	31	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP14-SA5A-QC-041411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259104
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP14 SDG#: DX072-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP14-SA5A-QC-041411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259104
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP14 SDG#: DX072-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11116002	04/28/2011 17:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11116002	04/26/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259105
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-058-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259105
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0326 JBQ	0.0138	1.09	1
11031	12378-PeCDD	40321-76-4	0.0805 JBQ	0.0152	5.43	1
11031	123478-HxCDD	39227-28-6	0.0422 JB	0.0171	5.43	1
11031	123678-HxCDD	57653-85-7	0.146 JB	0.0178	5.43	1
11031	123789-HxCDD	19408-74-3	0.257 JBQ	0.0168	5.43	1
11031	1234678-HpCDD	35822-46-9	0.726 JB	0.0355	5.43	1
11031	OCDD	3268-87-9	12.1 B	0.0265	10.9	1
11031	2378-TCDF	51207-31-9	0.0124 U	0.0124	1.09	1
11031	12378-PeCDF	57117-41-6	0.0758 JBQ	0.00736	5.43	1
11031	23478-PeCDF	57117-31-4	0.0681 JBQ	0.00736	5.43	1
11031	123478-HxCDF	70648-26-9	0.0426 JB	0.0102	5.43	1
11031	123678-HxCDF	57117-44-9	0.0569 JB	0.00967	5.43	1
11031	123789-HxCDF	72918-21-9	0.157 JB	0.0107	5.43	1
11031	234678-HxCDF	60851-34-5	0.0542 JBQ	0.00956	5.43	1
11031	1234678-HpCDF	67562-39-4	0.142 JBQ	0.0149	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0704 JBQ	0.0207	5.43	1
11031	OCDF	39001-02-0	0.236 JBQ	0.0252	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259105
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259105
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 08:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259106
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-058-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259106
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.5	B	0.0287	1.10	1
11031	12378-PeCDD	40321-76-4	111	B	0.0270	5.48	1
11031	123478-HxCDD	39227-28-6	113	B	0.0291	5.48	1
11031	123678-HxCDD	57653-85-7	112	B	0.0298	5.48	1
11031	123789-HxCDD	19408-74-3	111	B	0.0285	5.48	1
11031	1234678-HpCDD	35822-46-9	112	B	0.0512	5.48	1
11031	OCDD	3268-87-9	230	B	0.0460	11.0	1
11031	2378-TCDF	51207-31-9	22.7		0.0288	1.10	1
11031	12378-PeCDF	57117-41-6	109	B	0.0199	5.48	1
11031	23478-PeCDF	57117-31-4	111	B	0.0193	5.48	1
11031	123478-HxCDF	70648-26-9	112	B	0.0531	5.48	1
11031	123678-HxCDF	57117-44-9	111	B	0.0454	5.48	1
11031	123789-HxCDF	72918-21-9	110	B	0.0435	5.48	1
11031	234678-HxCDF	60851-34-5	113	B	0.0387	5.48	1
11031	1234678-HpCDF	67562-39-4	112	B	0.0447	5.48	1
11031	1234789-HpCDF	55673-89-7	114	B	0.0567	5.48	1
11031	OCDF	39001-02-0	226	B	0.0448	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259106
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259106
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 09:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259107
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-058-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259107
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.6	B	0.0353	1.10	1
11031	12378-PeCDD	40321-76-4	112	B	0.0338	5.49	1
11031	123478-HxCDD	39227-28-6	113	B	0.0455	5.49	1
11031	123678-HxCDD	57653-85-7	112	B	0.0462	5.49	1
11031	123789-HxCDD	19408-74-3	110	B	0.0437	5.49	1
11031	1234678-HpCDD	35822-46-9	111	B	0.0600	5.49	1
11031	OCDD	3268-87-9	224	B	0.0523	11.0	1
11031	2378-TCDF	51207-31-9	23.1		0.0327	1.10	1
11031	12378-PeCDF	57117-41-6	111	B	0.0303	5.49	1
11031	23478-PeCDF	57117-31-4	113	B	0.0301	5.49	1
11031	123478-HxCDF	70648-26-9	113	B	0.0665	5.49	1
11031	123678-HxCDF	57117-44-9	109	B	0.0591	5.49	1
11031	123789-HxCDF	72918-21-9	111	B	0.0722	5.49	1
11031	234678-HxCDF	60851-34-5	112	B	0.0607	5.49	1
11031	1234678-HpCDF	67562-39-4	111	B	0.0419	5.49	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0674	5.49	1
11031	OCDF	39001-02-0	223	B	0.0534	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259107
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259107
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 10:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259108
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:06

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX072-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-059-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259108
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:06

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX072-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0309	JB	0.0135	1.12	1
11031	12378-PeCDD	40321-76-4	0.148	JBQ	0.0142	5.59	1
11031	123478-HxCDD	39227-28-6	0.0476	JBQ	0.0153	5.59	1
11031	123678-HxCDD	57653-85-7	0.125	JBQ	0.0158	5.59	1
11031	123789-HxCDD	19408-74-3	0.298	JB	0.0148	5.59	1
11031	1234678-HpCDD	35822-46-9	0.383	JBQ	0.0184	5.59	1
11031	OCDD	3268-87-9	0.827	JB	0.0257	11.2	1
11031	2378-TCDF	51207-31-9	0.0304	JB	0.0126	1.12	1
11031	12378-PeCDF	57117-41-6	0.126	JB	0.00722	5.59	1
11031	23478-PeCDF	57117-31-4	0.145	JB	0.00755	5.59	1
11031	123478-HxCDF	70648-26-9	0.0586	JBQ	0.0147	5.59	1
11031	123678-HxCDF	57117-44-9	0.0647	JB	0.0113	5.59	1
11031	123789-HxCDF	72918-21-9	0.277	JB	0.0151	5.59	1
11031	234678-HxCDF	60851-34-5	0.161	JBQ	0.0115	5.59	1
11031	1234678-HpCDF	67562-39-4	0.137	JB	0.00755	5.59	1
11031	1234789-HpCDF	55673-89-7	0.164	JBQ	0.0127	5.59	1
11031	OCDF	39001-02-0	0.346	JB	0.0244	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259108
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:06

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX072-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259108
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:06

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX072-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/23/2011 19:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-065-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259109
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD065 SDG#: DX072-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-065-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259109
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD065 SDG#: DX072-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0167 JBQ	0.0143	1.10	1
11031	12378-PeCDD	40321-76-4	0.0232 JBQ	0.0151	5.50	1
11031	123478-HxCDD	39227-28-6	0.0214 JBQ	0.0130	5.50	1
11031	123678-HxCDD	57653-85-7	0.0432 JBQ	0.0135	5.50	1
11031	123789-HxCDD	19408-74-3	0.0653 JB	0.0127	5.50	1
11031	1234678-HpCDD	35822-46-9	0.320 JB	0.0176	5.50	1
11031	OCDD	3268-87-9	0.952 JB	0.0265	11.0	1
11031	2378-TCDF	51207-31-9	0.0135 U	0.0135	1.10	1
11031	12378-PeCDF	57117-41-6	0.0354 JB	0.00691	5.50	1
11031	23478-PeCDF	57117-31-4	0.0749 JB	0.00747	5.50	1
11031	123478-HxCDF	70648-26-9	0.0211 JBQ	0.0111	5.50	1
11031	123678-HxCDF	57117-44-9	0.0303 JBQ	0.00892	5.50	1
11031	123789-HxCDF	72918-21-9	0.0650 JBQ	0.0120	5.50	1
11031	234678-HxCDF	60851-34-5	0.0752 JBQ	0.00948	5.50	1
11031	1234678-HpCDF	67562-39-4	0.126 JB	0.00736	5.50	1
11031	1234789-HpCDF	55673-89-7	0.0726 JBQ	0.0136	5.50	1
11031	OCDF	39001-02-0	0.217 JBQ	0.0244	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-065-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259109
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD065 SDG#: DX072-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-065-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259109
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD065 SDG#: DX072-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/23/2011 20:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-242-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259110
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD242 SDG#: DX072-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-242-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259110
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD242 SDG#: DX072-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0138 JBQ	0.0124	1.13	1
11031	12378-PeCDD	40321-76-4	0.0273 JBQ	0.0140	5.66	1
11031	123478-HxCDD	39227-28-6	0.0259 JBQ	0.0148	5.66	1
11031	123678-HxCDD	57653-85-7	0.0489 JB	0.0133	5.66	1
11031	123789-HxCDD	19408-74-3	0.0838 JB	0.0119	5.66	1
11031	1234678-HpCDD	35822-46-9	0.726 JB	0.0251	5.66	1
11031	OCDD	3268-87-9	6.93 JB	0.0330	11.3	1
11031	2378-TCDF	51207-31-9	0.0107 U	0.0107	1.13	1
11031	12378-PeCDF	57117-41-6	0.0269 JB	0.00566	5.66	1
11031	23478-PeCDF	57117-31-4	0.0501 JB	0.00624	5.66	1
11031	123478-HxCDF	70648-26-9	0.0546 JBQ	0.0207	5.66	1
11031	123678-HxCDF	57117-44-9	0.0538 JB	0.0135	5.66	1
11031	123789-HxCDF	72918-21-9	0.0581 JB	0.0109	5.66	1
11031	234678-HxCDF	60851-34-5	0.0600 JBQ	0.00855	5.66	1
11031	1234678-HpCDF	67562-39-4	0.232 JB	0.0140	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0702 JBQ	0.0156	5.66	1
11031	OCDF	39001-02-0	0.728 JB	0.0341	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	31	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-242-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259110
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD242 SDG#: DX072-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-242-SA5A-SB-2.5-3.5 Soil**
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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD242 SDG#: DX072-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 02:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242332
Reported: 05/10/11 at 11:12 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11116162401B	Sample number(s): 6259104-6259109								
Moisture Content by 160.3					100		80-120		
Batch number: 11129162401A	Sample number(s): 6259110								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11108002	Sample number(s): 6259108-6259110								
2378-TCDD	0.0284 J	0.0133	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0354 J	0.0119	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0288 J	0.0125	5.00	ng/kg	109		70-164		
123678-HxCDD	0.0367 J	0.0114	5.00	ng/kg	108		76-134		
123789-HxCDD	0.0531 J	0.00990	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.194 J	0.0151	5.00	ng/kg	107		70-140		
OCDD	0.428 J	0.0227	10.0	ng/kg	108		78-144		
2378-TCDF	0.0112 J	0.0110	1.00	ng/kg	120		75-158		
12378-PeCDF	0.0353 J	0.00620	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0901 J	0.00690	5.00	ng/kg	110		68-160		
123478-HxCDF	0.0844 J	0.0187	5.00	ng/kg	112		72-134		
123678-HxCDF	0.0439 J	0.0123	5.00	ng/kg	110		84-130		
123789-HxCDF	0.0731 J	0.00890	5.00	ng/kg	108		78-130		
234678-HxCDF	0.0328 J	0.00670	5.00	ng/kg	113		70-156		
1234678-HpCDF	0.0892 J	0.0115	5.00	ng/kg	107		82-122		
1234789-HpCDF	0.0492 J	0.0106	5.00	ng/kg	111		78-138		
OCDF	0.158 J	0.0210	10.0	ng/kg	111		63-170		
Batch number: 11116002	Sample number(s): 6259104								
2378-TCDD	0.0262 J	0.0200	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0199 U	0.0199	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0285 J	0.0148	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0370 J	0.0160	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0614 J	0.0157	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.247 J	0.0180	5.00	ng/kg	98		70-140		
OCDD	0.449 J	0.0191	10.0	ng/kg	99		78-144		
2378-TCDF	0.0380 J	0.0183	1.00	ng/kg	109		75-158		
12378-PeCDF	0.0555 J	0.00980	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0640 J	0.0111	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0658 J	0.0183	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0601 J	0.0136	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0973 J	0.0199	5.00	ng/kg	94		78-130		
234678-HxCDF	0.104 J	0.0128	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.149 J	0.00680	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0979 J	0.0169	5.00	ng/kg	97		78-138		
OCDF	0.273 J	0.0404	10.0	ng/kg	95		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242332
Reported: 05/10/11 at 11:12 AM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11122003	Sample number(s): 6259105-6259107								
2378-TCDD	0.0183 J	0.0119	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0512 J	0.0113	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0242 J	0.0124	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0426 J	0.0129	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0398 J	0.0123	5.00	ng/kg	103		64-162		
1234678-HpCDD	0.173 J	0.0178	5.00	ng/kg	101		70-140		
OCDD	0.359 J	0.0192	10.0	ng/kg	102		78-144		
2378-TCDF	0.0143 U	0.0143	1.00	ng/kg	106		75-158		
12378-PeCDF	0.0563 J	0.00680	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0781 J	0.00650	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0612 J	0.00920	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0458 J	0.00780	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0821 J	0.00970	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0520 J	0.00820	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.0881 J	0.00860	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0487 J	0.0126	5.00	ng/kg	103		78-138		
OCDF	0.148 J	0.0212	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11116162401B	Sample number(s): 6259104-6259109 BKG: P259085								
Moisture Content by 160.3						9.0	9.0	0	20
Batch number: 11129162401A	Sample number(s): 6259110 BKG: P259054								
Moisture Content by 160.3						14.6	14.7	1	20
Batch number: 11122003	Sample number(s): 6259105-6259107 UNSPK: 6259105								
2378-TCDD	98	98	67-158	1	25				
12378-PeCDD	101	102	70-142	1	25				
123478-HxCDD	103	103	70-164	1	25				
123678-HxCDD	102	102	76-134	1	25				
123789-HxCDD	101	100	64-162	0	25				
1234678-HpCDD	102	100	70-140	1	25				
OCDD	100	97	78-144	3	25				
2378-TCDF	104	105	75-158	2	25				
12378-PeCDF	100	101	80-134	1	25				
23478-PeCDF	101	103	68-160	2	25				
123478-HxCDF	102	103	72-134	0	25				
123678-HxCDF	101	100	84-130	1	25				
123789-HxCDF	100	101	78-130	1	25				
234678-HxCDF	103	102	70-156	1	25				
1234678-HpCDF	102	101	82-122	1	25				
1234789-HpCDF	104	102	78-138	2	25				
OCDF	103	101	63-170	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242332
Reported: 05/10/11 at 11:12 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11108002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6259108	74	69	61	76	75	65
6259109	74	69	64	79	75	66
6259110	76	64	31	47	74	65
Blank	82	72	30	46	81	70
OPR	71	64	40	58	71	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6259108	88	60	56	84	73	74
6259109	91	59	53	81	75	75
6259110	53	57	47	79	71	61
Blank	52	65	59	93	80	70
OPR	67	58	54	88	73	72
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6259108	75	77	73	70	68	77
6259109	77	78	73	69	68	78
6259110	69	76	69	62	68	74
Blank	78	86	80	75	73	82
OPR	77	76	73	68	62	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11116002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6259104	56	55	41	51	51	42
Blank	57	51	38	49	51	38
OPR	55	53	41	53	56	48
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6259104	70	40	31	78	64	63
Blank	68	33	26	82	62	64
OPR	72	41	32	82	61	67
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242332
Reported: 05/10/11 at 11:12 AM

Surrogate Quality Control

6259104	63	62	63	52	52	75
Blank	65	64	62	54	50	62
OPR	67	68	67	57	51	61
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11122003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6259105	73	74	75	79	80	78
6259106	73	74	60	68	80	80
6259107	68	70	72	78	76	71
Blank	81	80	80	87	85	82
MS	73	74	60	68	80	80
MSD	68	70	72	78	76	71
OPR	72	71	68	73	78	78
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6259105	89	73	70	82	76	83
6259106	78	72	71	84	77	85
6259107	85	62	54	81	73	81
Blank	98	78	75	97	85	93
MS	78	72	71	84	77	85
MSD	85	62	54	81	73	81
OPR	83	69	65	86	74	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6259105	86	83	82	81	71	80
6259106	86	85	81	79	70	78
6259107	80	80	77	73	65	74
Blank	92	92	92	90	74	83
MS	86	85	81	79	70	78
MSD	80	80	77	73	65	74
OPR	82	85	81	75	67	74
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1242332 6259104-1D

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz jar collected from the same interval from which Encores were collected

Samplers Signatures: Pamela Montes

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-DRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SA5A																											
DUP14-~~SA5C~~-QC-041411	04.14.11	1016	SOIL	NONE	4-Encores										X	X											
DUP14-~~SA5C~~-QC-041411	04.14.11	1016	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-058-SA5A-SB-3.5MS	04.14.11	1005	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-058-SA5A-SB-3.0-4.0MS	04.14.11	1009	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X	X														MS/MSD
SL-059-SA5A-SB-3.5	04.14.11	1101	SOIL	NONE	4-Encores										X	X											
SL-059-SA5A-SB-3.0-4.0	04.14.11	1106	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-065-SA5A-SB-4.5	04.14.11	1254	SOIL	NONE	4-Encores										X	X											
SL-065-SA5A-SB-4.0-5.0	04.14.11	1258	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-242-SA5A-SB-3.0	04.14.11	1549	SOIL	NONE	5-Encores										X	X	X										
SL-242-SA5A-SB-2.5-3.5	04.14.11	1554	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-041411	04.14.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/14/2011 / 1700

Received for Laboratory by: (Signature) — 4/15/11 955

Received by: (Signature) — Date/Time

Airbill No.(s): 8695 1367 6216; 8700 5932 3168; 8700 5930 9896

Laboratory: Lancaster Laboratories, Inc.

Sample ID DUP14 was updated to DUP14-SA5A-QC-041411 per PH. NLM 4/19/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

REVISED

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/16/2011
Group Number: 1242488
SDG: DE129
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-062-SA8N-SS-0.0-0.5 Soil	6260131
SL-067-SA8N-SS-0.0-0.5 Soil	6260132
SL-141-SA8N-SS-0.0-0.5 Soil	6260133
SL-041-SA5A-SB-4.0-5.0 Soil	6260134
SL-044-SA5A-SB-3.0-4.0 Soil	6260135
SL-052-SA5A-SB-4.0-5.0 Soil	6260136
SL-243-SA5A-SB-4.0-5.0 Soil	6260137
TB-041511 Water	6260138

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

REVISED

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Jaime L. Ferguson
Senior Specialist

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-062-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260131
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-1 SDG#: DE129-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.8	U	18.8	37.6		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260131
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-1 SDG#: DE129-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	25		6.8	20		1
10138	Chrysene	218-01-9	1.2	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	1.5	J	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.92	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	1.1	J	0.75	1.9		1
10138	Pyrene	129-00-0	1.3	J	0.75	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1

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Sample Description: SL-062-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260131
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-1 SDG#: DE129-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	19		5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	19		5
10225	Aroclor 5460	11126-42-4	5.6	U	5.6	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.6		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.6		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.6		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.6		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6		5
10225	PCB-1254	11097-69-1	2.5	J	1.9	9.6		5
10225	PCB-1260	11096-82-5	2.2	U	2.2	9.6		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.6		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	5.4		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	9.3		0.45	1.4		1

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Sample Description: SL-062-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260131
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

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129-1 SDG#: DE129-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C30 - C40)	n.a.	20		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,100		5.49	21.8		1
07914	Boron	7440-42-8	10.3		0.971	5.46		1
01650	Calcium	7440-70-2	36,100		6.69	21.8		1
01654	Iron	7439-89-6	30,600		25.7	109		5
01656	Lithium	7439-93-2	30.5		0.24	2.2		1
01657	Magnesium	7439-95-4	8,340		2.77	10.9		1
06958	Manganese	7439-96-5	376		0.0851	0.546		1
10145	Phosphorus	7723-14-0	645		0.611	10.9		1
01662	Potassium	7440-09-7	6,700		19.6	54.6		1
01667	Sodium	7440-23-5	135		40.7	109		1
07968	Strontium	7440-24-6	75.0		0.0677	0.546		1
06969	Tin	7440-31-5	2.46	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,280		0.415	1.09		1
10146	Zirconium	7440-67-7	3.42	J	0.917	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.23		0.0890	0.445		2
06126	Barium	7440-39-3	99.0		0.120	0.445		2
06127	Beryllium	7440-41-7	0.723		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.226		0.0445	0.111		2
06131	Chromium	7440-47-3	31.3		0.134	0.445		2
06132	Cobalt	7440-48-4	10.3		0.0223	0.111		2

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SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260131
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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129-1 SDG#: DE129-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	16.4		0.0734	0.445		2
06135	Lead	7439-92-1	9.74		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.326		0.0556	0.111		2
06139	Nickel	7440-02-0	19.3		0.111	0.445		2
06141	Selenium	7782-49-2	0.275	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0290	J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.356		0.0334	0.111		2
06148	Vanadium	7440-62-2	59.6		0.0245	0.111		2
06149	Zinc	7440-66-6	75.9		0.623	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	493		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.26		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: SL-062-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260131
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-1 SDG#: DE129-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 17:37	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 05:19	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 21:37	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/05/2011 04:22	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 23:12	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/26/2011 16:26	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/22/2011 22:33	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 20:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 20:28	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 09:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 19:32	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 19:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 19:32	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/28/2011 00:41	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 19:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 19:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 19:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 19:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 19:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 19:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 19:32	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 19:32	John P Hook	1

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Sample Description: **SL-062-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260131
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-1 SDG#: DE129-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 19:32	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 19:32	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 12:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 12:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 12:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 12:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 12:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 12:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 12:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 12:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 12:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 12:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 12:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 12:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 12:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 12:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 12:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 12:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 11:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202B	04/28/2011 17:50	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11118621202B	04/28/2011 17:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202B	04/29/2011 19:09	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243202A	04/29/2011 21:04	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201A	04/25/2011 14:49	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202B	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202B	04/29/2011 10:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201A	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182102B	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Sample Description: SL-067-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260132
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-2 SDG#: DE129-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	62.0		20.1	40.1		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	20	410		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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Sample Description: SL-067-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260132
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-2 SDG#: DE129-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	0.47	J	0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	0.81	U	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	72	U	72	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	96	U	96	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	96	U	96	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1

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Sample Description: SL-067-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260132
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-2 SDG#: DE129-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	960	U	960	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	96	U	96	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	96	U	96	140	10000000	1
10132	PETN	78-11-5	960	U	960	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	730	U	730	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	1.4	J	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.58	J	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C15-C20)	n.a.	3.5		0.49	1.5		1
10199	EFH (C21-C30)	n.a.	9.1		0.49	1.5		1
10199	EFH (C30 - C40)	n.a.	21		0.49	1.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260132
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-2 SDG#: DE129-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.49	U	0.49	1.5		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	120	U	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.3		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.3		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,600		5.86	23.3		1
07914	Boron	7440-42-8	10.6		1.04	5.83		1
01650	Calcium	7440-70-2	51,800		7.15	23.3		1
01654	Iron	7439-89-6	31,300		5.49	23.3		1
01656	Lithium	7439-93-2	30.1		0.26	2.3		1
01657	Magnesium	7439-95-4	8,370		2.96	11.7		1
06958	Manganese	7439-96-5	406		0.0909	0.583		1
10145	Phosphorus	7723-14-0	633		0.653	11.7		1
01662	Potassium	7440-09-7	6,720		21.0	58.3		1
01667	Sodium	7440-23-5	118		43.5	117		1
07968	Strontium	7440-24-6	101		0.0723	0.583		1
06969	Tin	7440-31-5	2.46	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,250		0.443	1.17		1
10146	Zirconium	7440-67-7	3.37	J	0.979	5.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.172	J	0.0720	0.240		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.15		0.0960	0.480		2
06126	Barium	7440-39-3	102		0.130	0.480		2
06127	Beryllium	7440-41-7	0.711		0.0192	0.120		2
06128	Cadmium	7440-43-9	0.270		0.0480	0.120		2
06131	Chromium	7440-47-3	31.8		0.144	0.480		2
06132	Cobalt	7440-48-4	9.63		0.0240	0.120		2
06133	Copper	7440-50-8	16.5		0.0792	0.480		2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-067-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260132
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-2 SDG#: DE129-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	10.9	0.0125	0.240		2
06138	Molybdenum	7439-98-7	0.320	0.0600	0.120		2
06139	Nickel	7440-02-0	19.1	0.120	0.480		2
06141	Selenium	7782-49-2	0.298 J	0.0480	0.480		2
06142	Silver	7440-22-4	0.0214 J	0.0144	0.120		2
06145	Thallium	7440-28-0	0.347	0.0360	0.120		2
06148	Vanadium	7440-62-2	59.3	0.0264	0.120		2
06149	Zinc	7440-66-6	72.9	0.672	3.60		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0054 J	0.0034	0.119		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4	0.98	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.1	0.98	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0 U	11.0	36.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43 J	0.24	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.22 U	0.22	0.61		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	470	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.13	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	18.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-067-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260132
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-2 SDG#: DE129-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 17:53	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 22:55	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 22:10	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/05/2011 06:30	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 23:21	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/25/2011 17:38	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/22/2011 22:58	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 20:57	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 20:45	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 09:56	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 19:37	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 12:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 12:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 12:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 12:15	Choon Y Tian	2

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Sample Description: **SL-067-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260132
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-2 SDG#: DE129-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 12:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 12:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 12:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 12:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 12:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 12:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 12:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 12:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 12:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 12:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 12:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 12:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 11:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202B	04/28/2011 18:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11118621202B	04/28/2011 18:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202B	04/29/2011 20:15	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243202A	04/29/2011 21:10	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201A	04/25/2011 14:50	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202B	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202B	04/29/2011 10:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201A	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182102B	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: SL-141-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260133
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-3 SDG#: DE129-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	37.2	J	18.9	37.8		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-141-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260133
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-3 SDG#: DE129-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.45	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1

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Sample Description: SL-141-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260133
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-3 SDG#: DE129-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	2.3		0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	8.5		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	9.3		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	21		0.45	1.4		1

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Sample Description: SL-141-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260133
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-3 SDG#: DE129-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,300		5.53	22.0		1
07914	Boron	7440-42-8	9.73		0.979	5.50		1
01650	Calcium	7440-70-2	40,500		6.74	22.0		1
01654	Iron	7439-89-6	33,500		25.9	110		5
01656	Lithium	7439-93-2	31.1		0.24	2.2		1
01657	Magnesium	7439-95-4	8,500		2.79	11.0		1
06958	Manganese	7439-96-5	372		0.0858	0.550		1
10145	Phosphorus	7723-14-0	642		0.616	11.0		1
01662	Potassium	7440-09-7	6,630		19.8	55.0		1
01667	Sodium	7440-23-5	121		41.0	110		1
07968	Strontium	7440-24-6	87.0		0.0682	0.550		1
06969	Tin	7440-31-5	2.48	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,270		0.418	1.10		1
10146	Zirconium	7440-67-7	3.49	J	0.924	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0680	U	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Sample Description: SL-141-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260133
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-3 SDG#: DE129-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	4.73		0.0906	0.453		2
06126	Barium	7440-39-3	82.4		0.122	0.453		2
06127	Beryllium	7440-41-7	0.612		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.173		0.0453	0.113		2
06131	Chromium	7440-47-3	26.7		0.136	0.453		2
06132	Cobalt	7440-48-4	8.46		0.0227	0.113		2
06133	Copper	7440-50-8	13.9		0.0748	0.453		2
06135	Lead	7439-92-1	8.63		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.297		0.0566	0.113		2
06139	Nickel	7440-02-0	15.8		0.113	0.453		2
06141	Selenium	7782-49-2	0.262	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0311	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.290		0.0340	0.113		2
06148	Vanadium	7440-62-2	50.3		0.0249	0.113		2
06149	Zinc	7440-66-6	64.1		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0166	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.92	U	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.85	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	451		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.34		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-141-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260133
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-3 SDG#: DE129-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 18:10	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 23:19	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 22:42	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/05/2011 07:12	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 23:31	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/25/2011 17:56	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/22/2011 23:23	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 21:12	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 22:31	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 10:40	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 19:48	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 19:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 19:48	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/28/2011 00:45	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 19:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 19:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 19:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 19:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 19:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 19:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 19:48	John P Hook	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-141-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260133
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-3 SDG#: DE129-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 19:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 19:48	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 19:48	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 12:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 12:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 12:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 12:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 12:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 12:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 12:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 12:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 12:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 12:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 12:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 12:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 12:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 12:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 12:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 12:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 11:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202B	04/28/2011 19:15	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11118621202B	04/28/2011 19:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202B	04/29/2011 20:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243202A	04/29/2011 21:22	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 14:52	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202B	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202B	04/29/2011 10:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182102B	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: **SL-041-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260134
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-4 SDG#: DE129-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.91
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.91
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.91
06192	Methylene Chloride	75-09-2	0.50	J	0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.91

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Sample Description: SL-041-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260134
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-4 SDG#: DE129-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		24.13
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-041-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260134
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-4 SDG#: DE129-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1

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Sample Description: SL-041-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260134
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-4 SDG#: DE129-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		5.56	22.1		1
07914	Boron	7440-42-8	0.984	U	0.984	5.53		1
01650	Calcium	7440-70-2	3,080		6.78	22.1		1
01654	Iron	7439-89-6	22,700		5.21	22.1		1
01656	Lithium	7439-93-2	24.4		0.24	2.2		1
01657	Magnesium	7439-95-4	4,650		2.81	11.1		1
06958	Manganese	7439-96-5	326		0.0862	0.553		1
10145	Phosphorus	7723-14-0	499		0.619	11.1		1
01662	Potassium	7440-09-7	2,630		19.9	55.3		1
01667	Sodium	7440-23-5	68.0	J	41.2	111		1
07968	Strontium	7440-24-6	16.0		0.0685	0.553		1
06969	Tin	7440-31-5	2.86	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,060		0.420	1.11		1
10146	Zirconium	7440-67-7	0.928	U	0.928	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0670	U	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.89		0.0893	0.446		2
06126	Barium	7440-39-3	87.8		0.121	0.446		2
06127	Beryllium	7440-41-7	0.711		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0446	U	0.0446	0.112		2
06131	Chromium	7440-47-3	20.7		0.134	0.446		2
06132	Cobalt	7440-48-4	5.61		0.0223	0.112		2
06133	Copper	7440-50-8	7.66		0.0737	0.446		2
06135	Lead	7439-92-1	5.97		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.402		0.0558	0.112		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-041-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260134
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-4 SDG#: DE129-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	11.8		0.112	0.446		2
06141	Selenium	7782-49-2	0.102	J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0366	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.232		0.0335	0.112		2
06148	Vanadium	7440-62-2	39.2		0.0246	0.112		2
06149	Zinc	7440-66-6	52.0		0.625	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90	U	0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	445		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.93		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-041-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-041-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260134
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-4 SDG#: DE129-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 15:51	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111082AA	04/18/2011 20:38	Sara E Johnson	24.13
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110624137	04/16/2011 13:47	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110624137	04/16/2011 13:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110624137	04/16/2011 13:58	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110624137	04/16/2011 13:47	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 23:43	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 23:13	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/25/2011 18:15	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 19:53	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 12:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 12:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 12:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 12:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 12:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 12:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 12:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 12:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 12:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 12:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 12:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 12:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 12:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 12:21	Choon Y Tian	2

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Sample Description: **SL-041-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260134
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-4 SDG#: DE129-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 12:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 12:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 11:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202B	04/28/2011 19:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202B	04/29/2011 20:59	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243202A	04/29/2011 21:35	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202B	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202B	04/29/2011 10:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11111182102B	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: SL-044-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260135
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-5 SDG#: DE129-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.89
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.89
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.89
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.89
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.89
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.89
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.89
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.89
06192	Methylene Chloride	75-09-2	0.42	J	0.24	4.0		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.89

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260135
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-5 SDG#: DE129-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.63
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-044-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260135
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-5 SDG#: DE129-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260135
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-5 SDG#: DE129-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,500		5.47	21.8		1
07914	Boron	7440-42-8	1.39	J	0.968	5.44		1
01650	Calcium	7440-70-2	2,330		6.67	21.8		1
01654	Iron	7439-89-6	25,700		5.13	21.8		1
01656	Lithium	7439-93-2	28.8		0.24	2.2		1
01657	Magnesium	7439-95-4	5,110		2.76	10.9		1
06958	Manganese	7439-96-5	328		0.0849	0.544		1
10145	Phosphorus	7723-14-0	517		0.609	10.9		1
01662	Potassium	7440-09-7	4,380		19.6	54.4		1
01667	Sodium	7440-23-5	92.1	J	40.6	109		1
07968	Strontium	7440-24-6	19.4		0.0675	0.544		1
06969	Tin	7440-31-5	2.87	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,230		0.413	1.09		1
10146	Zirconium	7440-67-7	1.83	J	0.914	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0659	U	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.76		0.0879	0.440		2
06126	Barium	7440-39-3	97.1		0.119	0.440		2
06127	Beryllium	7440-41-7	0.795		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0779	J	0.0440	0.110		2
06131	Chromium	7440-47-3	22.7		0.132	0.440		2
06132	Cobalt	7440-48-4	7.57		0.0220	0.110		2
06133	Copper	7440-50-8	12.5		0.0725	0.440		2
06135	Lead	7439-92-1	7.10		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.373		0.0549	0.110		2

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Sample Description: SL-044-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260135
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-5 SDG#: DE129-05

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	16.0		0.110	0.440		2
06141	Selenium		7782-49-2	0.0903	J	0.0440	0.440		2
06142	Silver		7440-22-4	0.0729	J	0.0132	0.110		2
06145	Thallium		7440-28-0	0.318		0.0330	0.110		2
06148	Vanadium		7440-62-2	42.3		0.0242	0.110		2
06149	Zinc		7440-66-6	62.6		0.615	3.30		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0030	U	0.0030	0.104		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.89	U	0.89	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10	U	10	33.3		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.38	J	0.22	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	476		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.80		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	9.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-044-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-044-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260135
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-5 SDG#: DE129-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 16:14	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111082AA	04/18/2011 20:58	Sara E Johnson	20.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110624137	04/16/2011 13:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110624137	04/16/2011 13:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110624137	04/16/2011 13:58	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110624137	04/16/2011 13:50	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/23/2011 00:07	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 23:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/25/2011 19:48	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 19:57	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 12:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 12:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 12:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 12:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 12:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 12:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 12:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 12:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 12:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 12:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 12:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 12:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 12:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 12:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-044-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260135
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-5 SDG#: DE129-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 12:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 12:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 11:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202B	04/28/2011 19:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202B	04/29/2011 21:21	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243202A	04/29/2011 22:01	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202B	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202B	04/29/2011 10:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11111182102B	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: **SL-052-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260136
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-6 SDG#: DE129-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.87
06192	Methylene Chloride	75-09-2	0.34	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: SL-052-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260136
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-6 SDG#: DE129-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		22.4
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	28.9	J	18.9	37.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: **SL-052-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260136
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-6 SDG#: DE129-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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Sample Description: SL-052-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260136
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-6 SDG#: DE129-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.73
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

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Sample Description: SL-052-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260136
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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129-6 SDG#: DE129-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.80	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	27,100		5.73	22.8		1
07914	Boron	7440-42-8	1.01	U	1.01	5.70		1

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Sample Description: **SL-052-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260136
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-6 SDG#: DE129-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,770		6.98	22.8		1
01654	Iron	7439-89-6	27,400		5.37	22.8		1
01656	Lithium	7439-93-2	32.6		0.25	2.3		1
01657	Magnesium	7439-95-4	5,590		2.89	11.4		1
06958	Manganese	7439-96-5	231		0.0889	0.570		1
10145	Phosphorus	7723-14-0	205		0.638	11.4		1
01662	Potassium	7440-09-7	1,760		20.5	57.0		1
01667	Sodium	7440-23-5	130		42.5	114		1
07968	Strontium	7440-24-6	26.7		0.0706	0.570		1
06969	Tin	7440-31-5	3.00	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,360		0.433	1.14		1
10146	Zirconium	7440-67-7	2.38	J	0.957	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.22		0.0911	0.456		2
06126	Barium	7440-39-3	94.8		0.123	0.456		2
06127	Beryllium	7440-41-7	0.878		0.0456	0.285		5
06128	Cadmium	7440-43-9	0.0456	U	0.0456	0.114		2
06131	Chromium	7440-47-3	24.7		0.137	0.456		2
06132	Cobalt	7440-48-4	7.03		0.0228	0.114		2
06133	Copper	7440-50-8	9.81		0.0752	0.456		2
06135	Lead	7439-92-1	7.27		0.0118	0.228		2
06138	Molybdenum	7439-98-7	0.801		0.0570	0.114		2
06139	Nickel	7440-02-0	14.2		0.114	0.456		2
06141	Selenium	7782-49-2	0.0808	J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0347	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.241		0.0342	0.114		2
06148	Vanadium	7440-62-2	44.2		0.0251	0.114		2
06149	Zinc	7440-66-6	49.8		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0049	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.23	1.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-052-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260136
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-6 SDG#: DE129-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	349		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.63		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-052-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011	16:37	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111082AA	04/18/2011	21:18	Sara E Johnson	22.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110624137	04/16/2011	13:52	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110624137	04/16/2011	13:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110624137	04/16/2011	13:58	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110624137	04/16/2011	13:53	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011	18:27	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/23/2011	00:31	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/23/2011	00:17	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011	09:30	Kerrie A Freeburn	1

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Sample Description: **SL-052-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260136
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-6 SDG#: DE129-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34A	04/22/2011 13:20	Elizabeth J Marin	20.73
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201110624137	04/16/2011 13:52	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/05/2011 07:55	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 23:40	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/25/2011 20:06	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/22/2011 20:53	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 21:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 22:48	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 12:10	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:25	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 09:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 09:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 09:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 09:57	Choon Y Tian	5
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 09:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 09:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 09:29	Choon Y Tian	2

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Sample Description: **SL-052-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260136
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-6 SDG#: DE129-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 09:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 09:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 09:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 09:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 09:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 09:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 09:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 09:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 09:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 05:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202B	04/28/2011 19:58	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11118621202B	04/28/2011 19:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202B	04/29/2011 21:43	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243202A	04/29/2011 22:13	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 14:53	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202B	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202B	04/29/2011 10:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: SL-243-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260137
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-7 SDG#: DE129-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.87
06192	Methylene Chloride	75-09-2	0.51	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: SL-243-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260137
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-7 SDG#: DE129-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.26
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	41.0		18.8	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-243-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260137
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-7 SDG#: DE129-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260137
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

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Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-7 SDG#: DE129-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.81
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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Sample Description: SL-243-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260137
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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129-7 SDG#: DE129-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.76	J	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,500		5.49	21.8		1
07914	Boron	7440-42-8	1.11	J	0.971	5.45		1

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Sample Description: **SL-243-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260137
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-7 SDG#: DE129-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,320		6.69	21.8		1
01654	Iron	7439-89-6	24,300		5.14	21.8		1
01656	Lithium	7439-93-2	27.1		0.24	2.2		1
01657	Magnesium	7439-95-4	4,760		2.77	10.9		1
06958	Manganese	7439-96-5	276		0.0851	0.545		1
10145	Phosphorus	7723-14-0	161		0.611	10.9		1
01662	Potassium	7440-09-7	1,740		19.6	54.5		1
01667	Sodium	7440-23-5	97.4	J	40.7	109		1
07968	Strontium	7440-24-6	24.4		0.0676	0.545		1
06969	Tin	7440-31-5	2.91	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,160		0.415	1.09		1
10146	Zirconium	7440-67-7	2.04	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0655	U	0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.17		0.0873	0.436		2
06126	Barium	7440-39-3	82.8		0.118	0.436		2
06127	Beryllium	7440-41-7	0.761		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0436	U	0.0436	0.109		2
06131	Chromium	7440-47-3	19.0		0.131	0.436		2
06132	Cobalt	7440-48-4	5.76		0.0218	0.109		2
06133	Copper	7440-50-8	7.59		0.0720	0.436		2
06135	Lead	7439-92-1	6.04		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.518		0.0545	0.109		2
06139	Nickel	7440-02-0	12.1		0.109	0.436		2
06141	Selenium	7782-49-2	0.0567	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0492	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.190		0.0327	0.109		2
06148	Vanadium	7440-62-2	37.9		0.0240	0.109		2
06149	Zinc	7440-66-6	41.9		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0102	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1

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Sample Description: SL-243-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260137
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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129-7 SDG#: DE129-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	368		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.58		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-243-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 16:59	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111082AA	04/18/2011 21:38	Sara E Johnson	21.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110624137	04/16/2011 13:55	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110624137	04/16/2011 13:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110624137	04/16/2011 13:58	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110624137	04/16/2011 13:55	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 18:44	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/23/2011 00:55	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/23/2011 00:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-243-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260137
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-7 SDG#: DE129-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34A	04/22/2011 13:56	Elizabeth J Marin	22.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201110624137	04/16/2011 13:55	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/05/2011 08:37	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 23:50	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/25/2011 20:25	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/22/2011 21:18	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 21:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 23:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 12:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 20:01	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 12:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 12:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 12:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 12:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 12:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 12:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 12:28	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-243-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260137
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-7 SDG#: DE129-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 12:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 12:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 12:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 12:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 12:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 12:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 12:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 12:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 12:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 11:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11118621202B	04/28/2011 20:12	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11118621202B	04/28/2011 20:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11119621202B	04/29/2011 22:27	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243202A	04/29/2011 22:32	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 14:54	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11118621202B	04/28/2011 10:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11119621202B	04/29/2011 10:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: TB-041511 Water
SSFL Area IV Collocated Soil Sampling
TB-041511

LLI Sample # WW 6260138
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-8 SDG#: DE129-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: TB-041511 Water
SSFL Area IV Collocated Soil Sampling
TB-041511

LLI Sample # WW 6260138
LLI Group # 1242488
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

129-8 SDG#: DE129-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111081AA	04/18/2011	06:29	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111081AA	04/18/2011	11:36	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y111081AA	04/18/2011	06:29	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111081AA	04/18/2011	11:36	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11113C20A	04/26/2011	01:13	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11113C20A	04/26/2011	01:13	Laura M Krieger	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111111AA	Sample number(s): 6260134-6260137									
Acetone	6.7	U	6.7	8.0	ug/kg	157	152	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	104	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101	101	79-120	0	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	120	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92	92	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	88	90	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	87	83	32-162	5	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	119	121	46-153	2	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	107	105	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	109	108	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99	97	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	94	92	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	98	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	88	82	37-154	7	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	63	64	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	99	80-120	0	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	93	92	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	101	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101	100	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	91	86	22-131	5	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	92	94	58-120	3	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	91	92	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98	98	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	94	97	80-120	4	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	98	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	98	100	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	98	79-120	0	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	79	77	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	102	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	93	95	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112	110	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99	100	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	102	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	101	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99	99	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	85	84	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98	97	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88	91	80-120	3	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	85	87	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	99	98	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	118	114	61-126	3	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	105	103	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98	97	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	108	113	45-155	5	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99	97	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105	103	75-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	87	90	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	92	98	61-134	6	30
Methylene Chloride	0.46	J	0.24	4.0	ug/kg	106	107	76-124	0	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	113	107	77-120	5	30
Styrene	0.10	U	0.10	4.0	ug/kg	93	92	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	93	93	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	105	108	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	97	77-120	3	30
Toluene	0.08	U	0.08	4.0	ug/kg	102	100	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94	97	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	90	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95	94	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	99	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	96	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	100	97	58-133	4	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101	104	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102	101	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	106	102	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93	91	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98	97	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	93	93	80-120	0	30
Batch number: E111081AA	Sample number(s): 6260138									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	114	119	80-123	4	30
Batch number: E111082AA	Sample number(s): 6260134-6260137									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	115	70-130	6	30
Batch number: Y111081AA	Sample number(s): 6260138									
Acetone	6	U	6.	20	ug/l	117	117	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	104	104	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	101	101	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	111	109	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	98	95	80-120	2	30
Bromoform	1	U	1.	5	ug/l	79	79	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	93	90	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	115	115	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	96	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	98	98	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	107	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	81	80	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	99	100	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	108	107	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	96	94	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	98	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	98	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	105	104	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	81	82	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	93	93	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	103	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	105	104	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	99	100	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	98	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	92	91	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	102	79-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	117	117	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	102	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	101	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	99	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	103	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	89	90	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	103	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	92	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	86	88	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	100	79-120	0	30
Freon 113	2	U	2.	10	ug/l	115	114	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	123*	124*	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	84	86	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	104	105	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	100	101	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	97	98	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	101	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	100	103	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	107	104	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	100	100	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	95	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	102	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	101	101	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	92	93	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	86	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	104	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	102	103	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	104	102	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	116	114	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	102	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	97	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	101	99	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	88	88	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	101	100	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
Batch number: 11109SLE026	Sample number(s): 6260131-6260137									
Aniline	170 U		170.	500	ug/kg	67		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	41		15-121		
Benzoic acid	170 U		170.	500	ug/kg	96		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	92		79-117		
Carbazole	33	U	33.	170	ug/kg	105		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	102		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	50		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	96		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	88		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	93		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	33	U	33.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	89		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	64		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	100		75-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	101		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	105		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	77		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	82		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	106		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	103		77-111		
bis(2-Ethylhexyl)phthalate	67	U	67.	330	ug/kg	102		75-117		
Hexachlorobenzene	33	U	33.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	89		68-105		
Isophorone	33	U	33.	170	ug/kg	95		69-110		
2-Methylphenol	67	U	67.	170	ug/kg	95		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	104		66-117		
2-Nitroaniline	33	U	33.	170	ug/kg	96		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	96		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	78		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	100		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	95		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	109		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	91		63-107		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	101		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	81		51-117		
Phenol	33	U	33.	170	ug/kg	94		58-112		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11109SLG026	Sample number(s): 6260131-6260137									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	103		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	98		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	96		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	100		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	101		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	111		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	102		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	114		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	87		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	105		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	116		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		64-120		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	0.67	U	0.67	1.7	ug/kg	101		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	115		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	94		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	98		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	116		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	99		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	100		56-121		
Batch number: 11110SLG026	Sample number(s): 6260131-6260133,6260136-6260137									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	74		70-130		
Batch number: 11112A34A	Sample number(s): 6260136-6260137									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69		67-119		
Batch number: 11113C20A	Sample number(s): 6260138									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 111080011A	Sample number(s): 6260131-6260133,6260136-6260137									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	120		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	106	105	54-134	1	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	106	104	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	119		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	115		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
HMX	100 U		100.	300	ug/kg	110		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	95		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	115		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	117		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	112		80-120		
PETN	800 U		800.	2,400	ug/kg	127*		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	79		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	119		80-120		
Batch number: 111100005A	Sample number(s): 6260131-6260133,6260136-6260137									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	94		80-126		
Batch number: 111100004A	Sample number(s): 6260131-6260137									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	74	90	36-106	20	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	75		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	99		65-137		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111110015A	Sample number(s): 6260131-6260133,6260136-6260137									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	110		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	113		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	112		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	108		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	77		66-113		
Batch number: 111080028A	Sample number(s): 6260131-6260133,6260136-6260137									
Ethanol	100	U	100.	500	ug/kg	93		71-129		
Isopropanol	100	U	100.	500	ug/kg	93		75-125		
Methanol	100	U	100.	500	ug/kg	93		68-129		
Batch number: 111100003A	Sample number(s): 6260131-6260133,6260136-6260137									
Diethylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	109		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Batch number: 111100030A	Sample number(s): 6260131-6260133,6260136-6260137									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	91		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
Batch number: 111121026001A	Sample number(s): 6260131-6260135,6260137									
Antimony	0.0594	U	0.0594	0.198	mg/kg	66		27-181		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	101		83-113		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	98		86-111		
Cadmium	0.0396	U	0.0396	0.0990	mg/kg	102		82-118		
Chromium	0.119	U	0.119	0.396	mg/kg	105		80-120		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	102		82-118		
Copper	0.0653	U	0.0653	0.396	mg/kg	97		83-110		
Lead	0.0103	U	0.0103	0.198	mg/kg	97		83-110		
Nickel	0.0990	U	0.0990	0.396	mg/kg	98		81-110		
Silver	0.0119	U	0.0119	0.0990	mg/kg	101		81-111		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	95		83-110		
Vanadium	0.0708	J	0.0218	0.0990	mg/kg	97		84-116		
Zinc	0.554	U	0.554	2.97	mg/kg	102		81-112		
Batch number: 111121026001B	Sample number(s): 6260131-6260135,6260137									
Selenium	0.0396	U	0.0396	0.396	mg/kg	99		83-111		
Batch number: 111121026001C	Sample number(s): 6260131-6260135,6260137									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	103		78-122		
Batch number: 111121026001D	Sample number(s): 6260131-6260135,6260137									
Barium	0.107	U	0.107	0.396	mg/kg	98		81-111		
Batch number: 111125708003	Sample number(s): 6260131-6260135,6260137									
Aluminum	5.43	J	4.98	19.8	mg/kg	97		61-110		
Boron	0.881	U	0.881	4.95	mg/kg	94		78-110		
Calcium	10.0	J	6.07	19.8	mg/kg	101		88-110		
Iron	4.66	U	4.66	19.8	mg/kg	88		61-110		
Lithium	0.41	J	0.22	2.0	mg/kg	101		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Magnesium	2.51	U	2.51	9.90	mg/kg	100		82-110		
Manganese	0.0772	U	0.0772	0.495	mg/kg	99		89-112		
Phosphorus	1.22	J	0.554	9.90	mg/kg	104		80-120		
Potassium	17.8	U	17.8	49.5	mg/kg	101		78-110		
Sodium	36.9	U	36.9	99.0	mg/kg	99		87-110		
Strontium	0.0614	U	0.0614	0.495	mg/kg	104		86-110		
Tin	1.33	J	0.990	9.90	mg/kg	98		90-114		
Titanium	0.376	U	0.376	0.990	mg/kg	87		80-120		
Zirconium	0.832	U	0.832	4.95	mg/kg	103		80-120		
Batch number: 111125711003	Sample number(s): 6260131-6260135,6260137									
Mercury	0.0028	U	0.0028	0.0994	mg/kg	112		88-123		
Batch number: 111161026001A	Sample number(s): 6260136									
Antimony	0.0600	U	0.0600	0.200	mg/kg	121		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	102		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	103		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	108		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	104		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	104		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	103		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	106		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		83-110		
Vanadium	0.0532	J	0.0220	0.100	mg/kg	100		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	99		81-112		
Batch number: 111161026001B	Sample number(s): 6260136									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		83-111		
Batch number: 111161026001C	Sample number(s): 6260136									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 111161026001D	Sample number(s): 6260136									
Barium	0.108	U	0.108	0.400	mg/kg	104		81-111		
Batch number: 111165708001	Sample number(s): 6260136									
Aluminum	5.03	U	5.03	20.0	mg/kg	94		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	93		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	99		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		89-112		
Phosphorus	1.26	J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	102		86-110		
Tin	1.48	J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	100		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		
Batch number: 111165711001	Sample number(s): 6260136									
Mercury	0.0028	U	0.0028	0.0973	mg/kg	99		88-123		
Batch number: 11114102201A	Sample number(s): 6260131-6260132									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	106		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11114102201B	Sample number(s): 6260133,6260136-6260137									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	106		80-120		
Batch number: 11115243202A	Sample number(s): 6260131-6260137									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	97		80-120		
Batch number: 11118621202B	Sample number(s): 6260131-6260137									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	98		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	97		90-110		
Batch number: 11119621202B	Sample number(s): 6260131-6260137									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11111039402B	Sample number(s): 6260131-6260135									
18a pH by 9045C						100		95-105		
Batch number: 11111039403A	Sample number(s): 6260136-6260137									
18a pH by 9045C						100		95-105		
Batch number: 11111182102B	Sample number(s): 6260131-6260135									
32a OR Potential						100		98-102		
Batch number: 11111182103A	Sample number(s): 6260136-6260137									
32a OR Potential						99		98-102		
Batch number: 11116162401B	Sample number(s): 6260134-6260135									
Moisture Content by 160.3						100		80-120		
Batch number: 11129162401A	Sample number(s): 6260131-6260133,6260136-6260137									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111111AA	Sample number(s): 6260134-6260137 UNSPK: P264845								
Acetone	127	122	15-210	7	30				
Benzene	103	107	55-143	0	30				
Bromobenzene	86	97	43-139	8	30				
Bromochloromethane	109	119	60-137	5	30				
Bromodichloromethane	86	91	53-136	3	30				
Bromoform	76	77	38-124	2	30				
Bromomethane	82	87	42-168	3	30				
2-Butanone	94	92	37-163	5	30				
n-Butylbenzene	86	105	30-146	17	30				
sec-Butylbenzene	91	109	33-157	15	30				
tert-Butylbenzene	83	98	41-152	13	30				
Carbon Tetrachloride	95	98	45-153	1	30				
Chlorobenzene	89	97	49-135	5	30				
Chloroethane	80	89	39-152	7	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Chloroethyl Vinyl Ether	48	50	32-139	0	30				
Chloroform	96	101	61-142	0	30				
Chloromethane	100	100	51-163	3	30				
2-Chlorotoluene	86	99	42-146	10	30				
4-Chlorotoluene	84	98	39-145	12	30				
1,2-Dibromo-3-chloropropane	70	68	30-139	6	30				
Dibromochloromethane	80	84	51-128	2	30				
1,2-Dibromoethane	85	87	54-129	1	30				
Dibromomethane	85	88	57-130	0	30				
1,2-Dichlorobenzene	80	92	36-133	10	30				
1,3-Dichlorobenzene	82	95	34-134	11	30				
1,4-Dichlorobenzene	82	94	35-136	10	30				
Dichlorodifluoromethane	87	82	26-151	10	30				
1,1-Dichloroethane	100	104	63-142	1	30				
1,2-Dichloroethane	87	90	68-131	1	30				
1,1-Dichloroethene	119	120	61-149	3	30				
cis-1,2-Dichloroethene	95	100	60-136	1	30				
trans-1,2-Dichloroethene	102	105	59-142	1	30				
1,2-Dichloropropane	96	102	62-135	3	30				
1,3-Dichloropropane	87	90	58-129	0	30				
2,2-Dichloropropane	85	88	53-147	1	30				
1,1-Dichloropropene	99	103	54-145	1	30				
cis-1,3-Dichloropropene	80	89	51-131	7	30				
trans-1,3-Dichloropropene	73	79	49-129	4	30				
Ethylbenzene	88	98	44-141	7	30				
Freon 113	131	127	56-156	7	30				
Hexachlorobutadiene	77	98	10-155	19	30				
2-Hexanone	81	80	32-160	5	30				
Isopropylbenzene	86	98	38-144	9	30				
p-Isopropyltoluene	86	104	29-152	15	30				
Methyl Tertiary Butyl Ether	77	79	55-129	1	30				
4-Methyl-2-pentanone	79	76	46-139	8	30				
Methylene Chloride	103	104	61-141	3	30				
n-Propylbenzene	95	111	39-157	11	30				
Styrene	81	91	35-134	8	30				
1,1,1,2-Tetrachloroethane	83	90	52-130	4	30				
1,1,2,2-Tetrachloroethane	89	88	40-152	5	30				
Tetrachloroethene	91	99	42-149	4	30				
Toluene	94	101	50-146	3	30				
1,2,3-Trichlorobenzene	73	85	10-140	12	30				
1,2,4-Trichlorobenzene	67	79	10-136	13	30				
1,1,1-Trichloroethane	91	94	64-142	0	30				
1,1,2-Trichloroethane	88	91	54-139	1	30				
Trichloroethene	95	100	53-144	2	30				
Trichlorofluoromethane	109	109	47-163	4	30				
1,2,3-Trichloropropane	85	85	45-154	4	30				
1,2,4-Trimethylbenzene	84	99	37-149	13	30				
1,3,5-Trimethylbenzene	87	102	38-150	12	30				
Vinyl Chloride	100	102	50-154	2	30				
m+p-Xylene	87	96	44-137	7	30				
o-Xylene	81	91	42-137	8	30				

Batch number: E111082AA Sample number(s): 6260134-6260137 UNSPK: P259085

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dioxane	122	113	70-130	4	30				
Batch number: 11109SLE026	Sample number(s): 6260131-6260137 UNSPK: P257874								
Aniline	72	73	35-95	1	30				
Benzidine	30*	46	35-141	41*	30				
Benzoic acid	46	41	10-173	12	30				
Benzyl alcohol	94	98	67-115	4	30				
4-Bromophenyl-phenylether	95	99	67-129	5	30				
Carbazole	100	105	64-120	5	30				
4-Chloro-3-methylphenol	98	100	76-110	2	30				
4-Chloroaniline	63	65	23-95	4	30				
bis(2-Chloroethoxy)methane	95	98	75-104	3	30				
bis(2-Chloroethyl)ether	96	101	60-116	5	30				
bis(2-Chloroisopropyl)ether	89	91	55-142	2	30				
2-Chloronaphthalene	103	103	50-141	0	30				
2-Chlorophenol	99	104	73-121	5	30				
4-Chlorophenyl-phenylether	95	98	80-109	2	30				
Dibenzofuran	98	102	71-112	4	30				
1,2-Dichlorobenzene	90	94	66-108	4	30				
1,3-Dichlorobenzene	90	94	63-109	5	30				
1,4-Dichlorobenzene	91	95	70-100	4	30				
3,3'-Dichlorobenzidine	85	91	16-119	6	30				
2,4-Dichlorophenol	101	102	78-117	2	30				
2,4-Dimethylphenol	94	99	78-110	6	30				
3,5-Dimethylphenol	98	103	70-130	5	30				
4,6-Dinitro-2-methylphenol	43	45	24-116	5	30				
2,4-Dinitrophenol	28	31	20-143	13	30				
2,4-Dinitrotoluene	96	101	73-113	5	30				
2,6-Dinitrotoluene	93	99	69-123	6	30				
1,2-Diphenylhydrazine	106	112	71-129	5	30				
bis(2-Ethylhexyl)phthalate	112	115	63-122	2	30				
Hexachlorobenzene	95	99	77-114	4	30				
Hexachlorobutadiene	93	95	62-120	3	30				
Hexachlorocyclopentadiene	29	33	10-153	11	30				
Hexachloroethane	81	83	57-109	2	30				
Isophorone	94	97	73-102	3	30				
2-Methylphenol	95	98	75-111	4	30				
4-Methylphenol	105	107	71-111	2	30				
2-Nitroaniline	102	108	67-125	6	30				
3-Nitroaniline	96	100	59-122	4	30				
4-Nitroaniline	90	78	52-112	14	30				
Nitrobenzene	98	102	72-106	4	30				
2-Nitrophenol	94	96	74-115	3	30				
4-Nitrophenol	95	99	54-113	3	30				
N-Nitroso-di-n-propylamine	91	94	60-116	3	30				
N-Nitrosodiphenylamine	101	108	86-145	7	30				
Pentachlorophenol	68	75	28-127	10	30				
Phenol	94	96	58-126	1	30				
1,2,4-Trichlorobenzene	97	101	72-115	4	30				
2,4,5-Trichlorophenol	101	104	78-109	3	30				
2,4,6-Trichlorophenol	101	106	77-115	5	30				
Batch number: 11109SLG026	Sample number(s): 6260131-6260137 UNSPK: P257874								

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthene	106*	106*	63-105	0	30				
Acenaphthylene	100	100	67-114	0	30				
Anthracene	97	100	60-122	3	30				
Benzo(a)anthracene	95	108	59-128	12	30				
Benzo(a)pyrene	88	108	45-138	18	30				
Benzo(b)fluoranthene	88	110	43-155	17	30				
Benzo(g,h,i)perylene	52	54	33-141	3	30				
Benzo(k)fluoranthene	98	118	42-144	17	30				
Butylbenzylphthalate	119	448*	57-173	116*	30				
Di-n-butylphthalate	119	120	65-148	1	30				
Chrysene	83	103	48-134	17	30				
Dibenz(a,h)anthracene	79	77	22-133	2	30				
Diethylphthalate	93	93	70-136	0	30				
Dimethylphthalate	107	106	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	60	109	39-167	26	30				
Fluoranthene	97	116	26-166	14	30				
Fluorene	104	105	66-122	1	30				
Indeno(1,2,3-cd)pyrene	73	73	21-143	0	30				
1-Methylnaphthalene	98	100	72-123	2	30				
2-Methylnaphthalene	89	90	64-103	2	30				
Naphthalene	94	96	61-102	2	30				
N-Nitrosodimethylamine	104	100	48-113	3	30				
Di-n-octylphthalate	140	154	40-192	10	30				
Phenanthrene	96	99	12-165	3	30				
Pyrene	81	101	15-153	18	30				
Batch number: 11110SLG026	Sample number(s): 6260131-6260133,6260136-6260137 UNSPK: P259054								
N-Nitrosodimethylamine	0*	0*	70-130	0	30				
Batch number: 11112A34A	Sample number(s): 6260136-6260137 UNSPK: P264845								
9a TPH by EPA 8015B Gas C5-C12	62	61	39-118	7	30				
Batch number: 111080011A	Sample number(s): 6260131-6260133,6260136-6260137 UNSPK: P259054								
4-Amino-2,6-Dinitrotoluene	92	104	80-127	12	50				
2-Amino-4,6-Dinitrotoluene	89	101	80-137	12	50				
1,3-Dinitrobenzene	91	103	38-166	12	50				
2,4-Dinitrotoluene	88	100	80-131	13	50				
2,6-Dinitrotoluene	93	104	80-127	11	50				
HMX	82	91	63-128	10	50				
Nitrobenzene	86	96	80-125	11	50				
Nitroglycerin	81	92	80-120	12	50				
2-Nitrotoluene	88	99	80-122	12	50				
3-Nitrotoluene	91	103	72-119	12	50				
4-Nitrotoluene	86	98	80-125	13	50				
PETN	99	112	80-121	12	50				
RDX	76	84	75-129	9	50				
Tetryl	57	64	55-174	11	50				
1,3,5-Trinitrobenzene	85	95	82-126	11	50				
2,4,6-Trinitrotoluene	88	101	82-130	13	50				
Batch number: 111100005A	Sample number(s): 6260131-6260133,6260136-6260137 UNSPK: P259054								
25a Formaldehyde 8315A	94	89	80-120	5	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111100004A	Sample number(s): 6260131-6260137 UNSPK: P259054								
PCB-1016	1932*	2507*	29-146	26	50				
PCB-1260	1953*	1165*	39-149	51*	50				
Batch number: 111110015A	Sample number(s): 6260131-6260133,6260136-6260137 UNSPK: P255761								
EFH (C12-C14)	224*	113	49-123	66*	20				
EFH (C15-C20)	165*	137*	49-123	14	20				
EFH (C21-C30)	144*	153*	49-123	6	20				
EFH (C30 - C40)	95	96	49-123	1	20				
EFH (C8-C11)	93	82	49-123	12	20				
Batch number: 111080028A	Sample number(s): 6260131-6260133,6260136-6260137 UNSPK: P259054								
Ethanol	70	71	48-130	1	20				
Isopropanol	77	77	12-149	1	20				
Methanol	64	64	43-138	0	20				
Batch number: 111100003A	Sample number(s): 6260131-6260133,6260136-6260137 UNSPK: P259058								
Diethylene glycol	78	92	59-109	16	20				
Ethylene glycol	91	95	63-107	3	20				
Propylene glycol	93	93	63-107	0	20				
Batch number: 111100030A	Sample number(s): 6260131-6260133,6260136-6260137 UNSPK: P259054								
m-Terphenyl	85	83	75-125	2	20				
o-Terphenyl	92	88	75-125	4	20				
p-Terphenyl	85	86	75-125	1	20				
Batch number: 111121026001A	Sample number(s): 6260131-6260135,6260137 UNSPK: P259054 BKG: P259054								
Antimony	26*	21*	75-125	18	20	0.100 J	0.104 J	4 (1)	20
Arsenic	74*	77	75-125	0	20	4.59	3.90	16	20
Beryllium	101	105	75-125	0	20	0.595	0.600	1	20
Cadmium	115	919*	75-125	141*	20	0.477	0.445	7 (1)	20
Chromium	231 (2)	338 (2)	75-125	13	20	48.8	36.9	28*	20
Cobalt	100	103	75-125	0	20	8.13	7.15	13	20
Copper	115	158*	75-125	13	20	17.3	16.1	7	20
Lead	-3906 (2)	-4107 (2)	75-125	11	20	141	12.2	168*	20
Nickel	173*	274*	75-125	16	20	38.2	33.7	13	20
Silver	102	104	75-125	1	20	0.247	0.330	29* (1)	20
Thallium	128*	110	75-125	13	20	0.216	0.220	2 (1)	20
Vanadium	112 (2)	135 (2)	75-125	4	20	41.3	40.5	2	20
Zinc	-68 (2)	-88 (2)	75-125	1	20	180	164	9	20
Batch number: 111121026001B	Sample number(s): 6260131-6260135,6260137 UNSPK: P259054 BKG: P259054								
Selenium	93	94	75-125	2	20	0.144 J	0.135 J	6 (1)	20
Batch number: 111121026001C	Sample number(s): 6260131-6260135,6260137 UNSPK: P259054 BKG: P259054								
Molybdenum	93	96	75-125	0	20	0.770	0.511	40*	20
Batch number: 111121026001D	Sample number(s): 6260131-6260135,6260137 UNSPK: P259054 BKG: P259054								
Barium	61 (2)	61 (2)	75-125	0	20	113	106	7	20
Batch number: 111125708003	Sample number(s): 6260131-6260135,6260137 UNSPK: P259054 BKG: P259054								
Aluminum	2549	2444	75-125	1	20	19,700	19,000	3	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Boron	97	97	84-115	2	20	5.91	6.29	6 (1)	20
Calcium	144 (2)	127 (2)	75-125	1	20	6,820	6,620	3	20
Iron	2282 (2)	2292 (2)	75-125	0	20	23,400	23,000	2	20
Lithium	101	101	82-114	1	20	19.4	19.2	1	20
Magnesium	315 (2)	437 (2)	75-125	4	20	5,290	5,140	3	20
Manganese	101 (2)	175 (2)	75-125	8	20	357	354	1	20
Phosphorus	33 (2)	62 (2)	75-125	5	20	479	439	9	20
Potassium	171 (2)	181 (2)	75-125	1	20	4,460	4,320	3	20
Sodium	97	98	75-125	1	20	91.8 J	89.7 J	2 (1)	20
Strontium	98	98	75-115	1	20	23.6	21.9	7	20
Tin	84	84	80-110	2	20	2.47 J	2.57 J	4 (1)	20
Titanium	325 (2)	326 (2)	75-125	0	20	1,090	1,060	3	20
Zirconium	95	94	75-125	3	20	3.71 J	9.37	87* (1)	20
Batch number: 111125711003	Sample number(s): 6260131-6260135,6260137 UNSPK: P259054 BKG: P259054								
Mercury	134	138*	65-135	2	20	0.267	0.322	18 (1)	20
Batch number: 111161026001A	Sample number(s): 6260136 UNSPK: P264845 BKG: P264845								
Antimony	51*	41*	75-125	16	20	0.171 J	0.116 J	38* (1)	20
Arsenic	107	68*	75-125	14	20	3.89	3.34	15	20
Beryllium	100	95	75-125	3	20	0.628	0.619	1	20
Cadmium	110	109	75-125	1	20	0.0385 U	0.0448 J	200* (1)	20
Chromium	101	102	75-125	1	20	15.9	16.2	2	20
Cobalt	107	101	75-125	5	20	5.67	6.01	6	20
Copper	105	105	75-125	0	20	6.43	6.73	5	20
Lead	118	105	75-125	5	20	4.72	4.64	2	20
Nickel	118	102	75-125	7	20	11.0	11.4	4	20
Silver	105	101	75-125	4	20	0.0327 J	0.0318 J	3 (1)	20
Thallium	113	118	75-125	3	20	0.232	0.230	1 (1)	20
Vanadium	130*	96	75-125	8	20	31.8	32.3	1	20
Zinc	117 (2)	77 (2)	75-125	7	20	45.0	45.4	1	20
Batch number: 111161026001B	Sample number(s): 6260136 UNSPK: P264845 BKG: P264845								
Selenium	99	97	75-125	2	20	0.111 J	0.0731 J	41* (1)	20
Batch number: 111161026001C	Sample number(s): 6260136 UNSPK: P264845 BKG: P264845								
Molybdenum	102	98	75-125	4	20	0.557	0.557	0	20
Batch number: 111161026001D	Sample number(s): 6260136 UNSPK: P264845 BKG: P264845								
Barium	166 (2)	95 (2)	75-125	6	20	96.6	94.4	2	20
Batch number: 111165708001	Sample number(s): 6260136 UNSPK: P264845 BKG: P264845								
Aluminum	1832 (2)	2092 (2)	75-125	3	20	16,900	17,500	3	20
Boron	100	100	84-115	1	20	1.71 J	1.21 J	34* (1)	20
Calcium	132 (2)	143 (2)	75-125	2	20	1,800	1,840	2	20
Iron	1186 (2)	1510 (2)	75-125	2	20	17,700	18,300	3	20
Lithium	103	104	82-114	2	20	21.3	21.9	3	20
Magnesium	218 (2)	241 (2)	75-125	1	20	3,640	3,740	3	20
Manganese	171 (2)	189 (2)	75-125	3	20	270	291	7	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Phosphorus	97	98	75-125	1	20	208		205		1	20
Potassium	131*	139*	75-125	3	20	2,110		2,080		2	20
Sodium	100	99	75-125	0	20	103		107		3 (1)	20
Strontium	98	99	75-115	1	20	18.9		19.4		3	20
Tin	88	88	80-110	1	20	2.30	J	2.30	J	0 (1)	20
Titanium	261 (2)	292 (2)	75-125	3	20	991		1,030		4	20
Zirconium	98	99	75-125	2	20	1.51	J	2.94	J	64* (1)	20
Batch number: 111165711001	Sample number(s): 6260136 UNSPK: P264845 BKG: P264845										
Mercury	88	88	65-135	3	20	0.0175	J	0.0059	J	99* (1)	20
Batch number: 11114102201A	Sample number(s): 6260131-6260132 UNSPK: P259054 BKG: P259054										
17a Cyanide by 9012B	108		75-125			0.18	U	0.19	U	0 (1)	20
Batch number: 11114102201B	Sample number(s): 6260133,6260136-6260137 UNSPK: P261700 BKG: P261700										
17a Cyanide by 9012B	108		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11115243202A	Sample number(s): 6260131-6260137 UNSPK: P259054 BKG: P259054										
3a Cr VI by EPA 7199	98		75-125			0.57	J	0.50	J	14 (1)	20
Batch number: 11118621202B	Sample number(s): 6260131-6260137 UNSPK: 6260131 BKG: 6260131										
11a Anions by 300.0 - Fluoride	77*		80-120			2.1		2.7		25* (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			0.88	J	0.96	J	9 (1)	20
Batch number: 11119621202B	Sample number(s): 6260131-6260137 UNSPK: 6260131 BKG: 6260131										
7a Perchlorate EPA 314.0	95		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11111039402B	Sample number(s): 6260131-6260135 BKG: P111039										
18a pH by 9045C						6.47		6.42		1	1
Batch number: 11111039403A	Sample number(s): 6260136-6260137 BKG: 6260136										
18a pH by 9045C						6.63		6.60		0	1
Batch number: 11111182102B	Sample number(s): 6260131-6260135 BKG: P259085										
32a OR Potential						451		454		1	6
Batch number: 11111182103A	Sample number(s): 6260136-6260137 BKG: 6260136										
32a OR Potential						349		350		0	6
Batch number: 11116162401B	Sample number(s): 6260134-6260135 BKG: P259085										
Moisture Content by 160.3						9.0		9.0		0	20
Batch number: 11129162401A	Sample number(s): 6260131-6260133,6260136-6260137 BKG: P259054										
Moisture Content by 160.3						14.6		14.7		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Surrogate Quality Control

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111111AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6260134	99	99	102	90
6260135	97	97	101	88
6260136	96	96	101	88
6260137	97	94	101	86
Blank	101	104	100	89
LCS	98	98	104	97
LCSD	98	99	104	97
MS	99	103	103	99
MSD	98	98	103	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111081AA

	Toluene-d8
6260138	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111082AA

	Toluene-d8
6260134	98
6260135	98
6260136	98
6260137	98
Blank	98
LCS	98
LCSD	98
MS	98
MSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111081AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6260138	105	104	102	93
Blank	106	101	102	94
LCS	105	103	105	100
LCSD	104	102	104	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11109SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Surrogate Quality Control

6260131	91	94	85	88	89	79
6260132	93	99	93	95	98	88
6260133	85	91	78	83	88	75
6260134	93	98	93	94	98	87
6260135	89	95	92	93	98	88
6260136	79	86	75	81	82	83
6260137	83	89	86	87	89	84
Blank	88	93	88	89	91	80
LCS	102	105	108	98	97	86
MS	100	104	95	97	96	89
MSD	103	107	99	99	99	90
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11109SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6260131	103	94	91
6260132	100	88	84
6260133	105	93	89
6260134	100	90	88
6260135	97	91	90
6260136	100	92	92
6260137	92	86	85
Blank	101	96	111
LCS	102	97	103
MS	107	97	95
MSD	105	101	109
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11110SLG026

	N-Nitrosodimethylamine-d6
6260131	100
6260132	145
6260133	99
6260136	83
6260137	93
Blank	68
LCS	61
MS	89
MSD	92
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11112A34A

	Trifluorotoluene-F
6260136	75
6260137	74
Blank	91

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Surrogate Quality Control

LCS	89
MS	79
MSD	73
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11113C20A

	Trifluorotoluene-F
6260138	73
Blank	78
LCS	108
LCSD	110
Limits:	63-135

Analysis Name: 16a Energetics by 8330A
Batch number: 111080011A

	2-Nitro-m-xylene
6260131	110
6260132	102
6260133	116
6260136	110
6260137	116
Blank	113
LCS	111
LCSD	108
MS	88
MSD	100
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111100004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6260131	84	105
6260132	92	89
6260133	84	87
6260134	95	93
6260135	95	110
6260136	95	110
6260137	88	109
Blank	91	111
LCS	79	106
LCSD	96	122*
MS	91	581*
MSD	101	625*
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111100005A

	Butyraldehyde

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Surrogate Quality Control

6260131	111
6260132	109
6260133	103
6260136	102
6260137	114
Blank	109
LCS	105
MS	112
MSD	103

Limits: 64-126

Analysis Name: 19a Alcohols by 8015B
Batch number: 111080028A

Acetone

6260131	74
6260132	69
6260133	74
6260136	71
6260137	76
Blank	96
LCS	95
MS	78
MSD	79

Limits: 42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111100003A

Tetramethylene glycol

6260131	80
6260132	74
6260133	71
6260136	64
6260137	60
Blank	104
LCS	104
MS	110
MSD	91

Limits: 29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111100030A

n-Triacontane-d62

6260131	61
6260132	61
6260133	48*
6260136	74
6260137	74
Blank	103
LCS	77
MS	118
MSD	218*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242488
Reported: 05/12/11 at 01:26 PM

Surrogate Quality Control

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111110015A

	Chlorobenzene	Orthoterphenyl
6260131	80	94
6260132	73	84
6260133	86	99
6260136	83	76
6260137	88	81
Blank	89	78
LCS	76	101
MS	71	95
MSD	80	102
Limits:	37-125	47-145

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acct# 13013 Gp# 1242488 sample# 6260131-38

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP § Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
Samplers Signatures: Stephen J. Britch																								
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																			
SL-062-SA8N-SS-0.0-0.5	04.15.11	0905	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-062-SA8N-SS-0.0-0.5	04.15.11	0905	SOIL	NONE	1 SS sleeve			X	X															
SL-067-SA8N-SS-0.0-0.5	04.15.11	1035	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-067-SA8N-SS-0.0-0.5	04.15.11	1035	SOIL	NONE	1 SS sleeve			X	X															
SL-141-SA8N-SS-0.0-0.5	04.15.11	0835	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-141-SA8N-SS-0.0-0.5	04.15.11	0835	SOIL	NONE	1 SS sleeve			X	X															
Relinquished by: (Signature) [signature]	Date/Time 04/15/2011 / 1700		Received for Laboratory by: (Signature)																				Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature) [signature]	Date/Time 4/16/11 1110		Airbill No.(s) 8700 5932 2919																					

acct# 1303 Grp# 1242488 Sample# 6260131-38

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ Per hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:							*Metals: EPA 6010/6020/6A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	*Perchlorate EPA 6850/6860	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex. Chrome EPA 7199 @	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-DRO EPA 8015B $	**TRH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																							
SL-041-SA5A-SB-4.5	04.15.11	1535	SOIL	NONE	4-Encores											X	X											
SL-041-SA5A-SB-4.0-5.0	04.15.11	1538	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X															
SL-044-SA5A-SB-3.5	04.15.11	1223	SOIL	NONE	4-Encores											X	X											
SL-044-SA5A-SB-3.0-4.0	04.15.11	1227	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X															
SL-052-SA5A-SB-4.5	04.15.11	0930	SOIL	NONE	5-Encores											X	X	X										
SL-052-SA5A-SB-4.0-5.0	04.15.11	0934	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	
SL-253-SA5A-SB-4.5	04.15.11	1041	SOIL	NONE	5-Encores											X	X	X										
SL-253-SA5A-SB-4.0-5.0	04.15.11	1046	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	
TB-041511	04.15.11		WATER	HCl	4-40 mL VOA VIALS											X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/15/2011 / 1700		Received for Laboratory by: (Signature)																									Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 4/16/11 1010		Airbill No.(s) 8700 5932 2919; 8700 5932 2920																									

Nicole Maljovec A# 13013 G# 1242488 S# G260131-38

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, April 27, 2011 10:46 AM
To: Nicole Maljovec
Cc: Bloisa, Peggy; Burgesser, Todd
Subject: Sample Correction

Attachments: COC subsurface & surface 04 15 11.xlsx; HSA_SA5A_sample_tracking_042611tb(2).xlsx

COC subsurface & surface 04 15...

HSA_SA5A_sample_tracking_04261...

Nicole

I recently found a mistake with a sample collected on 4/15/2011. It was named SL-253, but should be SL-243. I have attached a corrected COC.

Peggy and Todd, I made the correction in the 5A sample tracking spreadsheet.

Thanks,

Pam

13013 / 124 2488 / G260131-38

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B
SL-041-SA5A-SB-4.5	04.15.11	1535	SOIL	NONE	4-Encores										X	X										
SL-041-SA5A-SB-4.0-5.0	04.15.11	1538	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X													
SL-044-SA5A-SB-3.5	04.15.11	1223	SOIL	NONE	4-Encores										X	X										
SL-044-SA5A-SB-3.0-4.0	04.15.11	1227	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X													
SL-052-SA5A-SB-4.5	04.15.11	0930	SOIL	NONE	5-Encores										X	X	X									
SL-052-SA5A-SB-4.0-5.0	04.15.11	0934	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
SL-243-SA5A-SB-4.5	04.15.11	1041	SOIL	NONE	5-Encores										X	X	X									
SL-243-SA5A-SB-4.0-5.0	04.15.11	1046	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
TB-041511	04.15.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X									

Other Instructions and Notes: Amended COC

TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/15/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8700 5932 2919; 8700 5932 2920	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/16/2011
Group Number: 1242489
SDG: DX072
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-062-SA8N-SS-0.0-0.5 Soil	6260139
SL-067-SA8N-SS-0.0-0.5 Soil	6260140
SL-141-SA8N-SS-0.0-0.5 Soil	6260141
SL-041-SA5A-SB-4.0-5.0 Soil	6260142
SL-044-SA5A-SB-3.0-4.0 Soil	6260143
SL-052-SA5A-SB-4.0-5.0 Soil	6260144
SL-243-SA5A-SB-4.0-5.0 Soil	6260145

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

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Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Jaime L. Ferguson
Senior Specialist

Lancaster Laboratories

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Analysis Report

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Sample Description: **SL-062-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260139
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7206 SDG#: DX072-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-062-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260139
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7206 SDG#: DX072-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0149 U	0.0149	1.13	1
11031	12378-PeCDD	40321-76-4	0.0401 JBQ	0.0165	5.67	1
11031	123478-HxCDD	39227-28-6	0.0468 JBQ	0.0195	5.67	1
11031	123678-HxCDD	57653-85-7	0.108 JB	0.0192	5.67	1
11031	123789-HxCDD	19408-74-3	0.141 JB	0.0170	5.67	1
11031	1234678-HpCDD	35822-46-9	1.56 JB	0.0421	5.67	1
11031	OCDD	3268-87-9	17.7 B	0.0261	11.3	1
11031	2378-TCDF	51207-31-9	0.120 JBQ	0.0644	1.13	1
11031	12378-PeCDF	57117-41-6	0.331 JB	0.0225	5.67	1
11031	23478-PeCDF	57117-31-4	0.188 JB	0.0261	5.67	1
11031	123478-HxCDF	70648-26-9	0.445 JB	0.0338	5.67	1
11031	123678-HxCDF	57117-44-9	0.0803 JBQ	0.0225	5.67	1
11031	123789-HxCDF	72918-21-9	0.117 JB	0.0211	5.67	1
11031	234678-HxCDF	60851-34-5	0.133 JBQ	0.0167	5.67	1
11031	1234678-HpCDF	67562-39-4	1.60 JB	0.0207	5.67	1
11031	1234789-HpCDF	55673-89-7	0.0542 JBQ	0.0269	5.67	1
11031	OCDF	39001-02-0	6.87 JB	0.0378	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-062-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260139
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7206 SDG#: DX072-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

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Sample Description: **SL-062-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260139
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7206 SDG#: DX072-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 03:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: **SL-067-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260140
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7207 SDG#: DX072-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	18.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-067-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260140
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7207 SDG#: DX072-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0137	U	0.0137	1.20	1
11031	12378-PeCDD	40321-76-4	0.0557	JB	0.0185	5.98	1
11031	123478-HxCDD	39227-28-6	0.0647	JB	0.0228	5.98	1
11031	123678-HxCDD	57653-85-7	0.253	JB	0.0235	5.98	1
11031	123789-HxCDD	19408-74-3	0.170	JB	0.0220	5.98	1
11031	1234678-HpCDD	35822-46-9	4.73	JB	0.0384	5.98	1
11031	OCDD	3268-87-9	48.2	B	0.0403	12.0	1
11031	2378-TCDF	51207-31-9	0.198	JB	0.0909	1.20	1
11031	12378-PeCDF	57117-41-6	0.621	JB	0.0332	5.98	1
11031	23478-PeCDF	57117-31-4	0.282	JB	0.0330	5.98	1
11031	123478-HxCDF	70648-26-9	0.584	JB	0.0357	5.98	1
11031	123678-HxCDF	57117-44-9	0.138	JBQ	0.0250	5.98	1
11031	123789-HxCDF	72918-21-9	0.125	JB	0.0310	5.98	1
11031	234678-HxCDF	60851-34-5	0.162	JB	0.0245	5.98	1
11031	1234678-HpCDF	67562-39-4	2.01	JB	0.0209	5.98	1
11031	1234789-HpCDF	55673-89-7	0.140	JBQ	0.0338	5.98	1
11031	OCDF	39001-02-0	9.02	JB	0.0262	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: **SL-067-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260140
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7207 SDG#: DX072-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: **SL-067-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260140
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7207 SDG#: DX072-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 04:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: **SL-141-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260141
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7208 SDG#: DX072-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-141-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260141
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7208 SDG#: DX072-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0126	U	0.0126	1.14	1
11031	12378-PeCDD	40321-76-4	0.0451	JBQ	0.0192	5.68	1
11031	123478-HxCDD	39227-28-6	0.0676	JBQ	0.0323	5.68	1
11031	123678-HxCDD	57653-85-7	0.141	JB	0.0325	5.68	1
11031	123789-HxCDD	19408-74-3	0.197	JB	0.0288	5.68	1
11031	1234678-HpCDD	35822-46-9	3.01	JB	0.0386	5.68	1
11031	OCDD	3268-87-9	27.5	B	0.0285	11.4	1
11031	2378-TCDF	51207-31-9	0.144	JBQ	0.0740	1.14	1
11031	12378-PeCDF	57117-41-6	0.758	JB	0.0261	5.68	1
11031	23478-PeCDF	57117-31-4	0.205	JBQ	0.0288	5.68	1
11031	123478-HxCDF	70648-26-9	0.485	JB	0.0302	5.68	1
11031	123678-HxCDF	57117-44-9	0.0877	JB	0.0205	5.68	1
11031	123789-HxCDF	72918-21-9	0.118	JBQ	0.0224	5.68	1
11031	234678-HxCDF	60851-34-5	0.121	JBQ	0.0167	5.68	1
11031	1234678-HpCDF	67562-39-4	1.51	JB	0.0180	5.68	1
11031	1234789-HpCDF	55673-89-7	0.0749	JB	0.0279	5.68	1
11031	OCDF	39001-02-0	6.09	JB	0.0360	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-141-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260141
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7208 SDG#: DX072-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

REVISED

Sample Description: **SL-141-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260141
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7208 SDG#: DX072-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 05:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

REVISED

Sample Description: **SL-041-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260142
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7209 SDG#: DX072-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260142
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7209 SDG#: DX072-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0115 U	0.0115	1.11	1
11031	12378-PeCDD	40321-76-4	0.0196 JBQ	0.0131	5.56	1
11031	123478-HxCDD	39227-28-6	0.0147 JBQ	0.0115	5.56	1
11031	123678-HxCDD	57653-85-7	0.0223 JBQ	0.0114	5.56	1
11031	123789-HxCDD	19408-74-3	0.0525 JBQ	0.0101	5.56	1
11031	1234678-HpCDD	35822-46-9	0.215 JB	0.0169	5.56	1
11031	OCDD	3268-87-9	0.675 JB	0.0233	11.1	1
11031	2378-TCDF	51207-31-9	0.00891 U	0.00891	1.11	1
11031	12378-PeCDF	57117-41-6	0.0184 JBQ	0.00643	5.56	1
11031	23478-PeCDF	57117-31-4	0.0436 JBQ	0.00609	5.56	1
11031	123478-HxCDF	70648-26-9	0.0158 JBQ	0.00947	5.56	1
11031	123678-HxCDF	57117-44-9	0.0217 JB	0.00688	5.56	1
11031	123789-HxCDF	72918-21-9	0.0736 JB	0.00744	5.56	1
11031	234678-HxCDF	60851-34-5	0.0441 JBQ	0.00564	5.56	1
11031	1234678-HpCDF	67562-39-4	0.0612 JB	0.00643	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0429 JBQ	0.00958	5.56	1
11031	OCDF	39001-02-0	0.127 JBQ	0.0195	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: **SL-041-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260142
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7209 SDG#: DX072-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: **SL-041-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260142
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7209 SDG#: DX072-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 06:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

REVISED

Sample Description: **SL-044-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260143
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7210 SDG#: DX072-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-044-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260143
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7210 SDG#: DX072-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0120 U	0.0120	1.11	1
11031	12378-PeCDD	40321-76-4	0.0404 JBQ	0.0133	5.53	1
11031	123478-HxCDD	39227-28-6	0.0352 JB	0.0134	5.53	1
11031	123678-HxCDD	57653-85-7	0.0531 JB	0.0137	5.53	1
11031	123789-HxCDD	19408-74-3	0.0697 JB	0.0127	5.53	1
11031	1234678-HpCDD	35822-46-9	0.539 JBQ	0.0232	5.53	1
11031	OCDD	3268-87-9	4.24 JB	0.0307	11.1	1
11031	2378-TCDF	51207-31-9	0.0124 JBQ	0.00943	1.11	1
11031	12378-PeCDF	57117-41-6	0.0280 JB	0.00644	5.53	1
11031	23478-PeCDF	57117-31-4	0.0796 JB	0.00633	5.53	1
11031	123478-HxCDF	70648-26-9	0.0494 JB	0.00932	5.53	1
11031	123678-HxCDF	57117-44-9	0.0374 JBQ	0.00744	5.53	1
11031	123789-HxCDF	72918-21-9	0.119 JB	0.00888	5.53	1
11031	234678-HxCDF	60851-34-5	0.0621 JB	0.00733	5.53	1
11031	1234678-HpCDF	67562-39-4	0.142 JBQ	0.00755	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0955 JB	0.0117	5.53	1
11031	OCDF	39001-02-0	0.302 JBQ	0.0226	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-044-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260143
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7210 SDG#: DX072-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

REVISED

Sample Description: **SL-044-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260143
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7210 SDG#: DX072-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 07:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

REVISED

Sample Description: **SL-052-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260144
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7211 SDG#: DX072-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-052-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260144
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7211 SDG#: DX072-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0112 U	0.0112	1.15	1
11031	12378-PeCDD	40321-76-4	0.0110 U	0.0110	5.73	1
11031	123478-HxCDD	39227-28-6	0.0117 JBQ	0.0105	5.73	1
11031	123678-HxCDD	57653-85-7	0.0217 JB	0.0106	5.73	1
11031	123789-HxCDD	19408-74-3	0.0302 JB	0.00978	5.73	1
11031	1234678-HpCDD	35822-46-9	0.267 JB	0.0158	5.73	1
11031	OCDD	3268-87-9	0.654 JB	0.0231	11.5	1
11031	2378-TCDF	51207-31-9	0.0180 JBQ	0.00944	1.15	1
11031	12378-PeCDF	57117-41-6	0.0130 JBQ	0.00541	5.73	1
11031	23478-PeCDF	57117-31-4	0.0494 JB	0.00575	5.73	1
11031	123478-HxCDF	70648-26-9	0.0148 JBQ	0.00898	5.73	1
11031	123678-HxCDF	57117-44-9	0.0109 JBQ	0.00633	5.73	1
11031	123789-HxCDF	72918-21-9	0.00783 U	0.00783	5.73	1
11031	234678-HxCDF	60851-34-5	0.0366 JB	0.00621	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0599 JBQ	0.00610	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0368 JBQ	0.00932	5.73	1
11031	OCDF	39001-02-0	0.122 JB	0.0183	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: **SL-052-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260144
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7211 SDG#: DX072-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: **SL-052-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260144
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7211 SDG#: DX072-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 08:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

REVISED

Sample Description: **SL-243-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260145
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7212 SDG#: DX072-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-243-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260145
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7212 SDG#: DX072-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0123	U	0.0123	1.14	1
11031	12378-PeCDD	40321-76-4	0.0127	U	0.0127	5.70	1
11031	123478-HxCDD	39227-28-6	0.0110	U	0.0110	5.70	1
11031	123678-HxCDD	57653-85-7	0.0209	JB	0.0110	5.70	1
11031	123789-HxCDD	19408-74-3	0.0197	JB	0.0105	5.70	1
11031	1234678-HpCDD	35822-46-9	0.266	JBQ	0.0174	5.70	1
11031	OCDD	3268-87-9	1.19	JB	0.0278	11.4	1
11031	2378-TCDF	51207-31-9	0.0189	JB	0.00974	1.14	1
11031	12378-PeCDF	57117-41-6	0.00607	U	0.00607	5.70	1
11031	23478-PeCDF	57117-31-4	0.0559	JB	0.00607	5.70	1
11031	123478-HxCDF	70648-26-9	0.0140	JBQ	0.00974	5.70	1
11031	123678-HxCDF	57117-44-9	0.00788	JBQ	0.00664	5.70	1
11031	123789-HxCDF	72918-21-9	0.0450	JB	0.00710	5.70	1
11031	234678-HxCDF	60851-34-5	0.0307	JBQ	0.00596	5.70	1
11031	1234678-HpCDF	67562-39-4	0.0883	JB	0.00630	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0223	JBQ	0.00882	5.70	1
11031	OCDF	39001-02-0	0.206	JB	0.0188	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-243-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260145
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7212 SDG#: DX072-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

REVISED

Sample Description: **SL-243-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260145
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7212 SDG#: DX072-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 08:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

REVISED

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242489
Reported: 05/12/11 at 02:13 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11116162401B	Sample number(s): 6260142-6260143								
Moisture Content by 160.3					100		80-120		
Batch number: 11129162401A	Sample number(s): 6260139-6260141,6260144-6260145								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11108002	Sample number(s): 6260139-6260145								
2378-TCDD	0.0284 J	0.0133	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0354 J	0.0119	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0288 J	0.0125	5.00	ng/kg	109		70-164		
123678-HxCDD	0.0367 J	0.0114	5.00	ng/kg	108		76-134		
123789-HxCDD	0.0531 J	0.00990	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.194 J	0.0151	5.00	ng/kg	107		70-140		
OCDD	0.428 J	0.0227	10.0	ng/kg	108		78-144		
2378-TCDF	0.0112 J	0.0110	1.00	ng/kg	120		75-158		
12378-PeCDF	0.0353 J	0.00620	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0901 J	0.00690	5.00	ng/kg	110		68-160		
123478-HxCDF	0.0844 J	0.0187	5.00	ng/kg	112		72-134		
123678-HxCDF	0.0439 J	0.0123	5.00	ng/kg	110		84-130		
123789-HxCDF	0.0731 J	0.00890	5.00	ng/kg	108		78-130		
234678-HxCDF	0.0328 J	0.00670	5.00	ng/kg	113		70-156		
1234678-HpCDF	0.0892 J	0.0115	5.00	ng/kg	107		82-122		
1234789-HpCDF	0.0492 J	0.0106	5.00	ng/kg	111		78-138		
OCDF	0.158 J	0.0210	10.0	ng/kg	111		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11116162401B	Sample number(s): 6260142-6260143					BKG: P259085			
Moisture Content by 160.3						9.0	9.0	0	20
Batch number: 11129162401A	Sample number(s): 6260139-6260141,6260144-6260145					BKG: P259054			
Moisture Content by 160.3						14.6	14.7	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242489
Reported: 05/12/11 at 02:13 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11108002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6260139	84	71	38	57	78	70
6260140	76	73	54	73	76	67
6260141	77	67	43	62	74	61
6260142	71	66	47	62	74	64
6260143	73	68	60	73	74	70
6260144	74	67	52	71	74	66
6260145	77	70	48	67	76	69
Blank	82	72	30	46	81	70
OPR	71	64	40	58	71	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6260139	66	60	49	87	78	71
6260140	84	61	55	84	76	76
6260141	74	54	46	80	75	71
6260142	71	57	49	79	70	70
6260143	81	62	56	83	71	73
6260144	79	59	53	82	71	75
6260145	75	64	62	86	75	76
Blank	52	65	59	93	80	70
OPR	67	58	54	88	73	72
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6260139	76	81	73	68	76	83
6260140	77	78	74	68	72	78
6260141	72	79	69	65	69	78
6260142	69	75	66	60	67	72
6260143	75	76	71	67	69	72
6260144	77	77	70	65	68	74
6260145	80	80	76	75	71	78
Blank	78	86	80	75	73	82
OPR	77	76	73	68	62	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1242489 Sample # 6260139-45

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diquat/Paraq EPA 16135	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 80158 Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Bisanilino EPA 8330A	**Cyanide EPA 9012B	**Triphenyle EPA 80158	**Glycols EPA 80158	**Alcohols EPA 80158	
Samplers Signature: Stefan J Britsch																								
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																			
SL-062-SA8N-SS-0.0-0.5	04.15.11	0905	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X		
SL-062-SA8N-SS-0.0-0.5	04.15.11	0905	SOIL	NONE	1 SS sleeve			X	X															
SL-067-SA8N-SS-0.0-0.5	04.15.11	1035	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X		
SL-067-SA8N-SS-0.0-0.5	04.15.11	1035	SOIL	NONE	1 SS sleeve			X	X															
SL-141-SA8N-SS-0.0-0.5	04.15.11	0835	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X		
SL-141-SA8N-SS-0.0-0.5	04.15.11	0835	SOIL	NONE	1 SS sleeve			X	X															
Relinquished by: (Signature)	Date/Time 04/15/2011 / 1700		Received for Laboratory by: (Signature)																				Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature)	Date/Time 4/16/11 1110		Airbill No.(s) 8700 5932 2919																					

Acct#1393 Gp#1242489 Sample#6260139-45

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
§ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers
SL-041-SA5A-SB-4.5	04.15.11	1535	SOIL	NONE	4-Encores
SL-041-SA5A-SB-4.0-5.0	04.15.11	1538	SOIL	NONE	2-16 oz. jars
SL-044-SA5A-SB-3.5	04.15.11	1229	SOIL	NONE	4-Encores
SL-044-SA5A-SB-3.0-4.0	04.15.11	1227	SOIL	NONE	2-16 oz. jars
SL-052-SA5A-SB-4.5	04.15.11	0930	SOIL	NONE	5-Encores
SL-052-SA5A-SB-4.0-5.0	04.15.11	0934	SOIL	NONE	4-16 oz. jars
SL-253-SA5A-SB-4.5	04.15.11	1041	SOIL	NONE	5-Encores
SL-253-SA5A-SB-4.0-5.0	04.15.11	1046	SOIL	NONE	4-16 oz. jars
TB-041511	04.15.11		WATER	HCl	4-40 mL VOA VIALS

PRIMARY FOR ALL LOCATIONS										VOCs			SECONDARY FOR ALL LOCATIONS									
*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesel/Pureo EPA 8015B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196/	*pH EPA 9045C/9040B	Dioxins/furans Confirmation by EPA 8290 (10%)	VOCs/EPA 8260B §	1,4-Dioxane EPA 8260B/M §	TPH-DRO EPA 8015B §	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Total/Amyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other instructions and notes
X	X	X	X	X	X	X	X		X	X												SL-041-SA5A-SB-4.5
																						SL-041-SA5A-SB-4.0-5.0
X	X	X	X	X	X	X	X		X	X												SL-044-SA5A-SB-3.5
																						SL-044-SA5A-SB-3.0-4.0
X	X	X	X	X	X	X	X		X	X	X											SL-052-SA5A-SB-4.5
																						SL-052-SA5A-SB-4.0-5.0
X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		SL-253-SA5A-SB-4.5
																						SL-253-SA5A-SB-4.0-5.0
X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		TB-041511
									X	X	X										TRIP BLANK	

Relinquished by: (Signature) — Date/Time: 04/18/2011 / 1708 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 4/6/11 10:10 — Airbill No.(s): 8700 5932 2919; 8700 5832 2920

Laboratory: Lancaster Laboratories, Inc.

Nicole Maljovec A# 13013 G# 1242489 S# G26 0139-45

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, April 27, 2011 10:46 AM
To: Nicole Maljovec
Cc: Bloisa, Peggy; Burgesser, Todd
Subject: Sample Correction

Attachments: COC subsurface & surface 04 15 11.xlsx; HSA_SA5A_sample_tracking_042611tb(2).xlsx

COC subsurface & surface 04 15...

HSA_SA5A_sample _tracking_04261...

Nicole

I recently found a mistake with a sample collected on 4/15/2011. It was named SL-253, but should be SL-243. I have attached a corrected COC.

Peggy and Todd, I made the correction in the 5A sample tracking spreadsheet.

Thanks,

Pam

A#13013
G#1242489 S#G2C0139-45

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SM7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-041-SA5A-SB-4.5	04.15.11	1535	SOIL	NONE	4-Encores										X	X											
SL-041-SA5A-SB-4.0-5.0	04.15.11	1538	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-044-SA5A-SB-3.5	04.15.11	1223	SOIL	NONE	4-Encores										X	X											
SL-044-SA5A-SB-3.0-4.0	04.15.11	1227	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-052-SA5A-SB-4.5	04.15.11	0930	SOIL	NONE	5-Encores										X	X	X										
SL-052-SA5A-SB-4.0-5.0	04.15.11	0934	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-243-SA5A-SB-4.5	04.15.11	1041	SOIL	NONE	5-Encores										X	X	X										
SL-243-SA5A-SB-4.0-5.0	04.15.11	1046	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-041511	04.15.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time 04/15/2011 / 1700	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8700 5932 2919; 8700 5932 2920	

Amended COC

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/19/2011
Group Number: 1242771
SDG: DX071
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-032-SA5A-SB-3.0-4.0 Soil	6261716
SL-172-SA5A-SB-4.0-5.0 Soil	6261717
SL-174-SA5A-SB-2.0-3.0 Soil	6261718
SL-254-SA5A-SB-2.5-3.5 Soil	6261719
EB13-SA5A-SB-041811 Water	6261720

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261716
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD032 SDG#: DX071-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261716
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD032 SDG#: DX071-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0247 JBQ	0.0168	1.15	1
11031	12378-PeCDD	40321-76-4	0.157 JB	0.0177	5.73	1
11031	123478-HxCDD	39227-28-6	0.115 JB	0.0191	5.73	1
11031	123678-HxCDD	57653-85-7	0.174 JB	0.0194	5.73	1
11031	123789-HxCDD	19408-74-3	0.162 JB	0.0183	5.73	1
11031	1234678-HpCDD	35822-46-9	2.26 JB	0.0351	5.73	1
11031	OCDD	3268-87-9	59.1 B	0.0365	11.5	1
11031	2378-TCDF	51207-31-9	0.0554 JBQ	0.0148	1.15	1
11031	12378-PeCDF	57117-41-6	0.179 JB	0.00939	5.73	1
11031	23478-PeCDF	57117-31-4	0.153 JB	0.00869	5.73	1
11031	123478-HxCDF	70648-26-9	0.128 JBQ	0.0141	5.73	1
11031	123678-HxCDF	57117-44-9	0.0936 JB	0.0126	5.73	1
11031	123789-HxCDF	72918-21-9	0.0966 JBQ	0.0167	5.73	1
11031	234678-HxCDF	60851-34-5	0.0959 JBQ	0.0130	5.73	1
11031	1234678-HpCDF	67562-39-4	0.273 JB	0.0114	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0586 JBQ	0.0191	5.73	1
11031	OCDF	39001-02-0	0.630 JB	0.0277	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261716
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD032 SDG#: DX071-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261716
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD032 SDG#: DX071-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/28/2011 19:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261717
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD172 SDG#: DX071-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-172-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261717
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD172 SDG#: DX071-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0920	JBQ	0.0166	1.20	1
11031	12378-PeCDD	40321-76-4	0.243	JBQ	0.0160	6.00	1
11031	123478-HxCDD	39227-28-6	0.139	JB	0.0195	6.00	1
11031	123678-HxCDD	57653-85-7	0.209	JB	0.0202	6.00	1
11031	123789-HxCDD	19408-74-3	0.207	JB	0.0195	6.00	1
11031	1234678-HpCDD	35822-46-9	0.442	JBQ	0.0224	6.00	1
11031	OCDD	3268-87-9	1.37	JB	0.0260	12.0	1
11031	2378-TCDF	51207-31-9	0.0648	JBQ	0.0120	1.20	1
11031	12378-PeCDF	57117-41-6	0.245	JB	0.00793	6.00	1
11031	23478-PeCDF	57117-31-4	0.289	JB	0.00853	6.00	1
11031	123478-HxCDF	70648-26-9	0.247	JB	0.0175	6.00	1
11031	123678-HxCDF	57117-44-9	0.206	JBQ	0.0151	6.00	1
11031	123789-HxCDF	72918-21-9	0.254	JB	0.0202	6.00	1
11031	234678-HxCDF	60851-34-5	0.193	JB	0.0169	6.00	1
11031	1234678-HpCDF	67562-39-4	0.194	JB	0.00998	6.00	1
11031	1234789-HpCDF	55673-89-7	0.188	JB	0.0191	6.00	1
11031	OCDF	39001-02-0	0.280	JB	0.0237	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-172-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261717
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD172 SDG#: DX071-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261717
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD172 SDG#: DX071-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/28/2011 23:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-174-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261718
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD174 SDG#: DX071-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-174-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261718
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD174 SDG#: DX071-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0179 JBQ	0.0148	1.10	1
11031	12378-PeCDD	40321-76-4	0.0432 JBQ	0.0126	5.50	1
11031	123478-HxCDD	39227-28-6	0.0202 JBQ	0.0131	5.50	1
11031	123678-HxCDD	57653-85-7	0.0701 JB	0.0135	5.50	1
11031	123789-HxCDD	19408-74-3	0.0863 JB	0.0132	5.50	1
11031	1234678-HpCDD	35822-46-9	0.206 JB	0.0158	5.50	1
11031	OCDD	3268-87-9	0.459 JB	0.0196	11.0	1
11031	2378-TCDF	51207-31-9	0.0245 JBQ	0.0116	1.10	1
11031	12378-PeCDF	57117-41-6	0.0405 JBQ	0.00634	5.50	1
11031	23478-PeCDF	57117-31-4	0.0699 JB	0.00701	5.50	1
11031	123478-HxCDF	70648-26-9	0.0393 JBQ	0.00934	5.50	1
11031	123678-HxCDF	57117-44-9	0.0602 JB	0.00779	5.50	1
11031	123789-HxCDF	72918-21-9	0.0851 JB	0.0109	5.50	1
11031	234678-HxCDF	60851-34-5	0.0459 JBQ	0.00879	5.50	1
11031	1234678-HpCDF	67562-39-4	0.0984 JBQ	0.00501	5.50	1
11031	1234789-HpCDF	55673-89-7	0.0695 JBQ	0.0105	5.50	1
11031	OCDF	39001-02-0	0.148 JBQ	0.0240	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-174-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261718
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD174 SDG#: DX071-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-174-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261718
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD174 SDG#: DX071-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 00:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-254-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261719
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD254 SDG#: DX071-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-254-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261719
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD254 SDG#: DX071-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0237 JBQ	0.0176	1.11	1
11031	12378-PeCDD	40321-76-4	0.0130 U	0.0130	5.54	1
11031	123478-HxCDD	39227-28-6	0.0129 U	0.0129	5.54	1
11031	123678-HxCDD	57653-85-7	0.0294 JB	0.0134	5.54	1
11031	123789-HxCDD	19408-74-3	0.0584 JBQ	0.0126	5.54	1
11031	1234678-HpCDD	35822-46-9	0.298 JBQ	0.0195	5.54	1
11031	OCDD	3268-87-9	2.03 JB	0.0278	11.1	1
11031	2378-TCDF	51207-31-9	0.0138 U	0.0138	1.11	1
11031	12378-PeCDF	57117-41-6	0.0241 JB	0.00814	5.54	1
11031	23478-PeCDF	57117-31-4	0.0414 JBQ	0.00825	5.54	1
11031	123478-HxCDF	70648-26-9	0.0344 JB	0.00914	5.54	1
11031	123678-HxCDF	57117-44-9	0.0179 JB	0.00758	5.54	1
11031	123789-HxCDF	72918-21-9	0.0546 JB	0.0111	5.54	1
11031	234678-HxCDF	60851-34-5	0.0276 JBQ	0.00825	5.54	1
11031	1234678-HpCDF	67562-39-4	0.0799 JBQ	0.00624	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0615 JBQ	0.0139	5.54	1
11031	OCDF	39001-02-0	0.157 JBQ	0.0254	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	52	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-254-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261719
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD254 SDG#: DX071-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-254-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261719
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD254 SDG#: DX071-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 01:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB13-SA5A-SB-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB13-SA5A-SB-041811

LLI Sample # WW 6261720
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 13:30

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB13 SDG#: DX071-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.201	U	0.201	1.98	1
10915	12378-PeCDD	40321-76-4	0.288	U	0.288	9.91	1
10915	123478-HxCDD	39227-28-6	0.294	JBQ	0.275	9.91	1
10915	123678-HxCDD	57653-85-7	0.360	JBQ	0.289	9.91	1
10915	123789-HxCDD	19408-74-3	0.286	U	0.286	9.91	1
10915	1234678-HpCDD	35822-46-9	2.73	JB	0.365	9.91	1
10915	OCDD	3268-87-9	3.83	JB	0.448	19.8	1
10915	2378-TCDF	51207-31-9	0.269	J	0.198	1.98	1
10915	12378-PeCDF	57117-41-6	0.195	JBQ	0.137	9.91	1
10915	23478-PeCDF	57117-31-4	0.364	JB	0.129	9.91	1
10915	123478-HxCDF	70648-26-9	0.204	JBQ	0.124	9.91	1
10915	123678-HxCDF	57117-44-9	0.380	JB	0.119	9.91	1
10915	123789-HxCDF	72918-21-9	0.666	JB	0.134	9.91	1
10915	234678-HxCDF	60851-34-5	0.410	JBQ	0.115	9.91	1
10915	1234678-HpCDF	67562-39-4	0.790	JBQ	0.162	9.91	1
10915	1234789-HpCDF	55673-89-7	0.349	JBQ	0.215	9.91	1
10915	OCDF	39001-02-0	1.12	JBQ	0.449	19.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	60	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB13-SA5A-SB-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB13-SA5A-SB-041811

LLI Sample # WW 6261720
LLI Group # 1242771
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 13:30

Submitted: 04/19/2011 09:50
Reported: 05/10/2011 22:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB13 SDG#: DX071-15EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122001	05/04/2011 16:30	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11122001	05/02/2011 08:30	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242771
Reported: 05/10/11 at 10:11 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11119162401A	Sample number(s): 6261716-6261719									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11115002	Sample number(s): 6261716-6261719									
2378-TCDD	0.0462	J	0.0116	1.00	ng/kg	86		67-158		
12378-PeCDD	0.0571	J	0.0109	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0421	J	0.0111	5.00	ng/kg	88		70-164		
123678-HxCDD	0.0348	J	0.0118	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0543	J	0.0116	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.231	J	0.0143	5.00	ng/kg	87		70-140		
OCDD	0.458	J	0.0179	10.0	ng/kg	89		78-144		
2378-TCDF	0.0227	J	0.0100	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0538	J	0.00570	5.00	ng/kg	88		80-134		
23478-PeCDF	0.0593	J	0.00560	5.00	ng/kg	89		68-160		
123478-HxCDF	0.0469	J	0.00900	5.00	ng/kg	90		72-134		
123678-HxCDF	0.0401	J	0.00800	5.00	ng/kg	88		84-130		
123789-HxCDF	0.0854	J	0.0103	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0651	J	0.00840	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.126	J	0.00770	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0849	J	0.0129	5.00	ng/kg	90		78-138		
OCDF	0.215	J	0.0161	10.0	ng/kg	91		63-170		
Batch number: 11122001	Sample number(s): 6261720									
2378-TCDD	0.371	J	0.287	2.00	pg/l	98		67-158		
12378-PeCDD	0.428	J	0.422	10.0	pg/l	102		70-142		
123478-HxCDD	0.811	J	0.480	10.0	pg/l	105		70-164		
123678-HxCDD	0.674	J	0.494	10.0	pg/l	106		76-134		
123789-HxCDD	1.07	J	0.479	10.0	pg/l	102		64-162		
1234678-HpCDD	4.37	J	0.749	10.0	pg/l	105		70-140		
OCDD	7.09	J	0.667	20.0	pg/l	109		78-144		
2378-TCDF	0.244	U	0.244	2.00	pg/l	99		75-158		
12378-PeCDF	0.992	J	0.184	10.0	pg/l	100		80-134		
23478-PeCDF	0.699	J	0.169	10.0	pg/l	100		68-160		
123478-HxCDF	0.812	J	0.228	10.0	pg/l	100		72-134		
123678-HxCDF	0.817	J	0.220	10.0	pg/l	103		84-130		
123789-HxCDF	0.969	J	0.250	10.0	pg/l	101		78-130		
234678-HxCDF	0.470	J	0.201	10.0	pg/l	100		70-156		
1234678-HpCDF	1.81	J	0.299	10.0	pg/l	106		82-122		
1234789-HpCDF	0.983	J	0.384	10.0	pg/l	108		78-138		
OCDF	2.65	J	0.776	20.0	pg/l	110		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242771
Reported: 05/10/11 at 10:11 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11119162401A	Sample number(s): 6261716-6261719					BKG: P262838			
Moisture Content by 160.3						14.0	14.0	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11115002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6261716	68	78	79	86	82	73
6261717	68	73	78	88	79	76
6261718	65	66	67	78	69	64
6261719	58	63	65	76	67	58
Blank	77	78	83	91	84	77
OPR	64	63	68	74	70	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6261716	101	69	63	81	80	86
6261717	101	62	55	82	77	86
6261718	99	57	50	83	73	75
6261719	94	50	44	77	69	74
Blank	100	72	68	95	83	91
OPR	82	60	57	84	69	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6261716	85	87	82	77	64	79
6261717	82	83	79	73	64	80
6261718	77	76	75	71	56	75
6261719	73	74	70	65	52	69
Blank	88	88	87	82	70	84
OPR	74	77	73	68	58	68
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11122001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6261720	76	64	72	72	71	73

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242771
Reported: 05/10/11 at 10:11 PM

Surrogate Quality Control

Blank	71	61	63	65	67	65
OPR	79	67	76	77	75	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6261720	62	57	44	86	63	70
Blank	56	52	40	93	60	64
OPR	65	58	46	88	67	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6261720	69	70	60	46	74	67
Blank	64	65	55	42	73	61
OPR	74	75	63	49	79	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1242771 6261716-20

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: AGreczel

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010M/6020M/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-032-SA5A-SB-3.5	04.18.11	0910	SOIL	NONE	4-Encores										X	X											
SL-032-SA5A-SB-3.0-4.0	04.18.11	0914	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-172-SA5A-SB-4.5	04.18.11	1543	SOIL	NONE	4-Encores										X	X											
SL-172-SA5A-SB-4.0-5.0	04.18.11	1545	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-174-SA5A-SB-2.5	04.18.11	1510	SOIL	NONE	4-Encores										X	X											
SL-174-SA5A-SB-2.0-3.0	04.18.11	1505	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-254-SA5A-SB-3.0	04.18.11	1247	SOIL	NONE	4-Encores										X	X											
SL-254-SA5A-SB-2.5-3.5	04.18.11	1245	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
TB-041811	04.18.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/18/2011 / 1700 — Received for Laboratory by: (Signature): Gary Gerlach 4/19/11 950

Received by: (Signature) — Date/Time — Airbill No.(s): 8700 5932 2952, 2963

Laboratory: Lancaster Laboratories, Inc.

13013 1242771 62617116-20

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
EB13-SA5A-SB-041811	04.18.11	1330	WATER	NONE	5-1L amber bottles			X X	X	X								
EB13-SA5A-SB-041811	04.18.11	1330	WATER	HCl	6-40mL VOA vials											X		
EB13-SA5A-SB-041811	04.18.11	1330	WATER	NONE	1-500mL poly		X				X	X	X					
EB13-SA5A-SB-041811	04.18.11	1330	WATER	HNO3	1-500mL poly	X												

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/18/2011 / 1700	Henry Heath 4/19/11 950	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No(s)	
		8700 5932 2963, 2952	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/20/2011
Group Number: 1242945
SDG: DX071
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-075-SA8N-SS-0.0-0.5 Soil	6262845
SL-076-SA8N-SS-0.0-0.5 Soil	6262846
SL-077-SA8N-SS-0.0-0.5 Soil	6262847
SL-092-SA8N-SS-0.0-0.5 Soil	6262848
SL-093-SA8N-SS-0.0-0.5 Soil	6262849

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-075-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262845
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7116 SDG#: DX071-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-075-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262845
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7116 SDG#: DX071-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0178 U	0.0178	1.16	1
11031	12378-PeCDD	40321-76-4	0.0405 JBQ	0.0184	5.81	1
11031	123478-HxCDD	39227-28-6	0.0504 JB	0.0198	5.81	1
11031	123678-HxCDD	57653-85-7	0.117 JBQ	0.0204	5.81	1
11031	123789-HxCDD	19408-74-3	0.128 JB	0.0196	5.81	1
11031	1234678-HpCDD	35822-46-9	2.06 JB	0.0403	5.81	1
11031	OCDD	3268-87-9	24.0 B	0.0417	11.6	1
11031	2378-TCDF	51207-31-9	0.0840 JBQ	0.0771	1.16	1
11031	12378-PeCDF	57117-41-6	1.31 JB	0.0300	5.81	1
11031	23478-PeCDF	57117-31-4	0.273 JB	0.0326	5.81	1
11031	123478-HxCDF	70648-26-9	0.336 JB	0.0233	5.81	1
11031	123678-HxCDF	57117-44-9	0.0763 JB	0.0193	5.81	1
11031	123789-HxCDF	72918-21-9	0.130 JBQ	0.0272	5.81	1
11031	234678-HxCDF	60851-34-5	0.0862 JB	0.0224	5.81	1
11031	1234678-HpCDF	67562-39-4	0.648 JB	0.0135	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0787 JBQ	0.0302	5.81	1
11031	OCDF	39001-02-0	2.31 JB	0.0391	11.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-075-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262845
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7116 SDG#: DX071-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-075-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262845
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7116 SDG#: DX071-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 02:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262846
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7117 SDG#: DX071-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-076-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262846
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7117 SDG#: DX071-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0172	U	0.0172	1.12	1
11031	12378-PeCDD	40321-76-4	0.0896	JBQ	0.0343	5.58	1
11031	123478-HxCDD	39227-28-6	0.172	JB	0.0460	5.58	1
11031	123678-HxCDD	57653-85-7	0.458	JB	0.0470	5.58	1
11031	123789-HxCDD	19408-74-3	0.722	JB	0.0435	5.58	1
11031	1234678-HpCDD	35822-46-9	9.11	B	0.0675	5.58	1
11031	OCDD	3268-87-9	97.1	B	0.0335	11.2	1
11031	2378-TCDF	51207-31-9	1.15	B	0.152	1.12	1
11650	2378-TCDF-Conf	51207-31-9	0.691	JB	0.0642	1.12	1
11031	12378-PeCDF	57117-41-6	0.936	JB	0.0560	5.58	1
11031	23478-PeCDF	57117-31-4	1.06	JB	0.0547	5.58	1
11031	123478-HxCDF	70648-26-9	1.75	JB	0.0515	5.58	1
11031	123678-HxCDF	57117-44-9	0.191	JB	0.0424	5.58	1
11031	123789-HxCDF	72918-21-9	0.441	JB	0.0559	5.58	1
11031	234678-HxCDF	60851-34-5	0.146	JB	0.0425	5.58	1
11031	1234678-HpCDF	67562-39-4	0.898	JB	0.0225	5.58	1
11031	1234789-HpCDF	55673-89-7	0.140	JBQ	0.0453	5.58	1
11031	OCDF	39001-02-0	1.60	JB	0.0369	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-2378-TCDF-Conf	51	24 - 169
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-076-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262846
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7117 SDG#: DX071-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262846
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7117 SDG#: DX071-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 02:59	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11115002	05/09/2011 17:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-077-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262847
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7118 SDG#: DX071-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	22.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-077-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262847
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7118 SDG#: DX071-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0544	JBQ	0.0189	1.27	1
11031	12378-PeCDD	40321-76-4	0.537	JB	0.0479	6.33	1
11031	123478-HxCDD	39227-28-6	1.13	JB	0.0942	6.33	1
11031	123678-HxCDD	57653-85-7	2.90	JB	0.0963	6.33	1
11031	123789-HxCDD	19408-74-3	1.87	JB	0.0920	6.33	1
11031	1234678-HpCDD	35822-46-9	75.3	B	0.120	6.33	1
11031	OCDD	3268-87-9	849	B	0.0940	12.7	1
11031	2378-TCDF	51207-31-9	1.44	B	0.169	1.27	1
11650	2378-TCDF-Conf	51207-31-9	0.754	JB	0.0770	1.27	1
11031	12378-PeCDF	57117-41-6	0.290	JB	0.0569	6.33	1
11031	23478-PeCDF	57117-31-4	1.12	JB	0.0568	6.33	1
11031	123478-HxCDF	70648-26-9	2.35	JB	0.0879	6.33	1
11031	123678-HxCDF	57117-44-9	0.781	JB	0.0672	6.33	1
11031	123789-HxCDF	72918-21-9	0.553	JB	0.0707	6.33	1
11031	234678-HxCDF	60851-34-5	0.920	JB	0.0565	6.33	1
11031	1234678-HpCDF	67562-39-4	10.9	B	0.0411	6.33	1
11031	1234789-HpCDF	55673-89-7	1.38	JB	0.0718	6.33	1
11031	OCDF	39001-02-0	24.3	B	0.0555	12.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-2378-TCDF-Conf	60	24 - 169
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-077-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262847
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7118 SDG#: DX071-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-077-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262847
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7118 SDG#: DX071-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 03:55	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11115002	05/09/2011 18:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-092-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262848
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7119 SDG#: DX071-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-092-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262848
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7119 SDG#: DX071-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0189	U	0.0189	1.11	1
11031	12378-PeCDD	40321-76-4	0.138	JBQ	0.0251	5.57	1
11031	123478-HxCDD	39227-28-6	0.0858	JB	0.0415	5.57	1
11031	123678-HxCDD	57653-85-7	0.519	JB	0.0434	5.57	1
11031	123789-HxCDD	19408-74-3	0.715	JBQ	0.0414	5.57	1
11031	1234678-HpCDD	35822-46-9	2.82	JB	0.0382	5.57	1
11031	OCDD	3268-87-9	21.7	B	0.0329	11.1	1
11031	2378-TCDF	51207-31-9	0.457	JB	0.0813	1.11	1
11031	12378-PeCDF	57117-41-6	0.462	JB	0.0357	5.57	1
11031	23478-PeCDF	57117-31-4	0.709	JB	0.0356	5.57	1
11031	123478-HxCDF	70648-26-9	0.483	JB	0.0372	5.57	1
11031	123678-HxCDF	57117-44-9	0.171	JBQ	0.0323	5.57	1
11031	123789-HxCDF	72918-21-9	0.295	JB	0.0436	5.57	1
11031	234678-HxCDF	60851-34-5	0.242	JB	0.0345	5.57	1
11031	1234678-HpCDF	67562-39-4	0.734	JB	0.0184	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0930	JB	0.0372	5.57	1
11031	OCDF	39001-02-0	1.25	JBQ	0.0427	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-092-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262848
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7119 SDG#: DX071-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-092-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262848
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7119 SDG#: DX071-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 04:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-093-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262849
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7120 SDG#: DX071-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-093-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262849
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7120 SDG#: DX071-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0429 JBQ	0.0208	1.13	1
11031	12378-PeCDD	40321-76-4	0.274 JB	0.0462	5.65	1
11031	123478-HxCDD	39227-28-6	0.158 JB	0.0505	5.65	1
11031	123678-HxCDD	57653-85-7	0.859 JB	0.0520	5.65	1
11031	123789-HxCDD	19408-74-3	0.898 JB	0.0494	5.65	1
11031	1234678-HpCDD	35822-46-9	5.39 JB	0.0345	5.65	1
11031	OCDD	3268-87-9	36.3 B	0.0384	11.3	1
11031	2378-TCDF	51207-31-9	1.23 B	0.190	1.13	1
11650	2378-TCDF-Conf	51207-31-9	0.698 JB	0.0682	1.13	1
11031	12378-PeCDF	57117-41-6	2.64 JB	0.0603	5.65	1
11031	23478-PeCDF	57117-31-4	1.79 JB	0.0593	5.65	1
11031	123478-HxCDF	70648-26-9	1.32 JB	0.0561	5.65	1
11031	123678-HxCDF	57117-44-9	0.464 JB	0.0470	5.65	1
11031	123789-HxCDF	72918-21-9	0.307 JB	0.0647	5.65	1
11031	234678-HxCDF	60851-34-5	0.431 JB	0.0514	5.65	1
11031	1234678-HpCDF	67562-39-4	1.42 JB	0.0166	5.65	1
11031	1234789-HpCDF	55673-89-7	0.159 JBQ	0.0334	5.65	1
11031	OCDF	39001-02-0	2.52 JB	0.0355	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-2378-TCDF-Conf	63	24 - 169
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-093-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262849
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7120 SDG#: DX071-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-093-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262849
LLI Group # 1242945
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/13/2011 13:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7120 SDG#: DX071-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 05:49	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11115002	05/09/2011 19:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242945
Reported: 05/13/11 at 01:14 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11124162401B	Sample number(s): 6262845-6262849								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11115002	Sample number(s): 6262845-6262849								
2378-TCDD	0.0462 J	0.0116	1.00	ng/kg	86		67-158		
12378-PeCDD	0.0571 J	0.0109	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0421 J	0.0111	5.00	ng/kg	88		70-164		
123678-HxCDD	0.0348 J	0.0118	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0543 J	0.0116	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.231 J	0.0143	5.00	ng/kg	87		70-140		
OCDD	0.458 J	0.0179	10.0	ng/kg	89		78-144		
2378-TCDF	0.0227 J	0.0100	1.00	ng/kg	92		75-158		
2378-TCDF-Conf	0.0223 J	0.0135	1.00	ng/kg					
12378-PeCDF	0.0538 J	0.00570	5.00	ng/kg	88		80-134		
23478-PeCDF	0.0593 J	0.00560	5.00	ng/kg	89		68-160		
123478-HxCDF	0.0469 J	0.00900	5.00	ng/kg	90		72-134		
123678-HxCDF	0.0401 J	0.00800	5.00	ng/kg	88		84-130		
123789-HxCDF	0.0854 J	0.0103	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0651 J	0.00840	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.126 J	0.00770	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0849 J	0.0129	5.00	ng/kg	90		78-138		
OCDF	0.215 J	0.0161	10.0	ng/kg	91		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11124162401B	Sample number(s): 6262845-6262849					BKG: P262830			
Moisture Content by 160.3						8.2	8.3	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242945
Reported: 05/13/11 at 01:14 PM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11115002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6262845	64	66	67	78	69	63
6262846	65	68	64	75	73	64
6262847	72	73	52	65	76	69
6262848	68	73	73	81	75	67
6262849	72	73	76	85	77	70
Blank	77	78	83	91	84	77
OPR	64	63	68	74	70	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6262845	97	54	47	82	74	75
6262846	95	56	49	82	72	76
6262847	85	59	51	82	77	79
6262848	99	57	51	79	76	80
6262849	103	60	54	82	79	84
Blank	100	72	68	95	83	91
OPR	82	60	57	84	69	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6262845	76	76	74	69	56	76
6262846	75	79	72	69	59	74
6262847	78	81	75	67	66	80
6262848	76	79	74	70	63	78
6262849	81	84	79	73	66	81
Blank	88	88	87	82	70	84
OPR	74	77	73	68	58	68
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6262845	
6262846	51
6262847	60
6262848	
6262849	63
Blank	63
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1242945 Sample#6262845-49

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by SPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which aliquots were collected

Samplers Signature: Steve J Brit

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-075-SA8N-SS-0.0-0.5	04.19.11	0845	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-075-SA8N-SS-0.0-0.5	04.19.11	0845	SOIL	NONE	1 SS sleeve			X	X															
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	1 SS sleeve			X	X															
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	1 SS sleeve			X	X															
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	1 SS sleeve			X	X															
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	1 SS sleeve			X	X															
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1 SS sleeve			X	X															
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1 SS sleeve			X	X															
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1 SS sleeve			X	X															
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1 SS sleeve			X	X															
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	1 SS sleeve			X	X															
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	1 SS sleeve			X	X															
SL-138-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	4-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	MS/MSD
SL-138-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	2 SS sleeve			X	X															MS/MSD
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	1 SS sleeve			X	X															
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	1 SS sleeve			X	X															
DUP04-SA8N-041911	04.19.11	1105	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
DUP04-SA8N-041911	04.19.11	1105	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/19/2011 / 1700	4/20/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	AirBill# No(s)	
		8700 5952 3000, 2996	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/20/2011
Group Number: 1242946
SDG: DX072
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-094-SA8N-SS-0.0-0.5 Soil	6262850
SL-095-SA8N-SS-0.0-0.5 Soil	6262851
SL-096-SA8N-SS-0.0-0.5 Soil	6262852
SL-097-SA8N-SS-0.0-0.5 Soil	6262853
SL-122-SA8N-SS-0.0-0.5 Soil	6262854
SL-135-SA8N-SS-0.0-0.5 Soil	6262855

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-094-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262850
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7213 SDG#: DX072-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-094-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262850
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7213 SDG#: DX072-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0256	JB	0.0119	1.07	1
11031	12378-PeCDD	40321-76-4	0.184	JB	0.0179	5.35	1
11031	123478-HxCDD	39227-28-6	0.135	JBQ	0.0275	5.35	1
11031	123678-HxCDD	57653-85-7	0.344	JB	0.0277	5.35	1
11031	123789-HxCDD	19408-74-3	0.467	JB	0.0272	5.35	1
11031	1234678-HpCDD	35822-46-9	2.63	JB	0.0283	5.35	1
11031	OCDD	3268-87-9	24.7	B	0.0280	10.7	1
11031	2378-TCDF	51207-31-9	0.125	JB	0.0213	1.07	1
11031	12378-PeCDF	57117-41-6	0.276	JB	0.0125	5.35	1
11031	23478-PeCDF	57117-31-4	0.268	JB	0.0128	5.35	1
11031	123478-HxCDF	70648-26-9	0.296	JB	0.0201	5.35	1
11031	123678-HxCDF	57117-44-9	0.150	JB	0.0166	5.35	1
11031	123789-HxCDF	72918-21-9	0.575	JB	0.0219	5.35	1
11031	234678-HxCDF	60851-34-5	0.139	JBQ	0.0169	5.35	1
11031	1234678-HpCDF	67562-39-4	0.484	JB	0.0125	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0852	JB	0.0256	5.35	1
11031	OCDF	39001-02-0	1.02	JB	0.0310	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	114	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-094-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262850
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7213 SDG#: DX072-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-094-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262850
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7213 SDG#: DX072-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 06:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-095-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262851
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7214 SDG#: DX072-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262851
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7214 SDG#: DX072-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0146 JBQ	0.0128	1.13	1
11031	12378-PeCDD	40321-76-4	0.0993 JBQ	0.0183	5.63	1
11031	123478-HxCDD	39227-28-6	0.0722 JBQ	0.0300	5.63	1
11031	123678-HxCDD	57653-85-7	0.295 JB	0.0313	5.63	1
11031	123789-HxCDD	19408-74-3	0.388 JB	0.0303	5.63	1
11031	1234678-HpCDD	35822-46-9	2.68 JB	0.0325	5.63	1
11031	OCDD	3268-87-9	26.5 B	0.0321	11.3	1
11031	2378-TCDF	51207-31-9	0.103 JBQ	0.0215	1.13	1
11031	12378-PeCDF	57117-41-6	0.170 JBQ	0.0128	5.63	1
11031	23478-PeCDF	57117-31-4	0.222 JB	0.0128	5.63	1
11031	123478-HxCDF	70648-26-9	0.240 JB	0.0213	5.63	1
11031	123678-HxCDF	57117-44-9	0.0967 JB	0.0175	5.63	1
11031	123789-HxCDF	72918-21-9	0.339 JBQ	0.0255	5.63	1
11031	234678-HxCDF	60851-34-5	0.121 JB	0.0181	5.63	1
11031	1234678-HpCDF	67562-39-4	0.458 JB	0.0130	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0642 JBQ	0.0310	5.63	1
11031	OCDF	39001-02-0	0.955 JB	0.0337	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262851
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7214 SDG#: DX072-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-095-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262851
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7214 SDG#: DX072-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 07:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-096-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262852
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7215 SDG#: DX072-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-096-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262852
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7215 SDG#: DX072-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0151	U	0.0151	1.06	1
11031	12378-PeCDD	40321-76-4	0.0176	U	0.0176	5.32	1
11031	123478-HxCDD	39227-28-6	0.0704	JBQ	0.0306	5.32	1
11031	123678-HxCDD	57653-85-7	0.335	JB	0.0316	5.32	1
11031	123789-HxCDD	19408-74-3	0.428	JB	0.0302	5.32	1
11031	1234678-HpCDD	35822-46-9	2.87	JB	0.0408	5.32	1
11031	OCDD	3268-87-9	26.0	B	0.0277	10.6	1
11031	2378-TCDF	51207-31-9	0.106	JB	0.0287	1.06	1
11031	12378-PeCDF	57117-41-6	0.172	JB	0.0150	5.32	1
11031	23478-PeCDF	57117-31-4	0.281	JB	0.0159	5.32	1
11031	123478-HxCDF	70648-26-9	0.337	JBQ	0.0251	5.32	1
11031	123678-HxCDF	57117-44-9	0.0833	JBQ	0.0205	5.32	1
11031	123789-HxCDF	72918-21-9	0.459	JB	0.0286	5.32	1
11031	234678-HxCDF	60851-34-5	0.113	JB	0.0221	5.32	1
11031	1234678-HpCDF	67562-39-4	0.547	JB	0.0162	5.32	1
11031	1234789-HpCDF	55673-89-7	0.104	JB	0.0353	5.32	1
11031	OCDF	39001-02-0	1.21	JB	0.0431	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-096-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262852
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7215 SDG#: DX072-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-096-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262852
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7215 SDG#: DX072-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 13:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-097-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262853
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7216 SDG#: DX072-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-097-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262853
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7216 SDG#: DX072-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0151	U	0.0151	1.14	1
11031	12378-PeCDD	40321-76-4	0.0953	JB	0.0247	5.72	1
11031	123478-HxCDD	39227-28-6	0.0670	JBQ	0.0352	5.72	1
11031	123678-HxCDD	57653-85-7	0.481	JB	0.0359	5.72	1
11031	123789-HxCDD	19408-74-3	0.714	JB	0.0345	5.72	1
11031	1234678-HpCDD	35822-46-9	3.09	JB	0.0396	5.72	1
11031	OCDD	3268-87-9	29.5	B	0.0334	11.4	1
11031	2378-TCDF	51207-31-9	0.136	JBQ	0.0261	1.14	1
11031	12378-PeCDF	57117-41-6	0.213	JB	0.0181	5.72	1
11031	23478-PeCDF	57117-31-4	0.206	JB	0.0185	5.72	1
11031	123478-HxCDF	70648-26-9	0.333	JB	0.0292	5.72	1
11031	123678-HxCDF	57117-44-9	0.104	JBQ	0.0255	5.72	1
11031	123789-HxCDF	72918-21-9	0.804	JB	0.0307	5.72	1
11031	234678-HxCDF	60851-34-5	0.114	JB	0.0228	5.72	1
11031	1234678-HpCDF	67562-39-4	0.620	JB	0.0183	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0972	JB	0.0311	5.72	1
11031	OCDF	39001-02-0	1.42	JB	0.0407	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-097-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262853
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7216 SDG#: DX072-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-097-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262853
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7216 SDG#: DX072-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 14:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262854
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7217 SDG#: DX072-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-122-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262854
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7217 SDG#: DX072-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0549	JBQ	0.0223	1.04	1
11031	12378-PeCDD	40321-76-4	0.176	JBQ	0.0416	5.19	1
11031	123478-HxCDD	39227-28-6	0.132	JB	0.0266	5.19	1
11031	123678-HxCDD	57653-85-7	0.236	JB	0.0273	5.19	1
11031	123789-HxCDD	19408-74-3	0.353	JBQ	0.0262	5.19	1
11031	1234678-HpCDD	35822-46-9	2.88	JB	0.0316	5.19	1
11031	OCDD	3268-87-9	19.6	B	0.0297	10.4	1
11031	2378-TCDF	51207-31-9	0.363	JB	0.0433	1.04	1
11031	12378-PeCDF	57117-41-6	0.323	JB	0.0181	5.19	1
11031	23478-PeCDF	57117-31-4	0.483	JB	0.0222	5.19	1
11031	123478-HxCDF	70648-26-9	0.315	JB	0.0252	5.19	1
11031	123678-HxCDF	57117-44-9	0.179	JB	0.0224	5.19	1
11031	123789-HxCDF	72918-21-9	0.246	JB	0.0304	5.19	1
11031	234678-HxCDF	60851-34-5	0.248	JBQ	0.0248	5.19	1
11031	1234678-HpCDF	67562-39-4	0.760	JB	0.0153	5.19	1
11031	1234789-HpCDF	55673-89-7	0.191	JB	0.0289	5.19	1
11031	OCDF	39001-02-0	1.14	JB	0.0338	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-122-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262854
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7217 SDG#: DX072-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262854
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7217 SDG#: DX072-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11116001	04/28/2011 06:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11116001	04/26/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-135-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262855
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7218 SDG#: DX072-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-135-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262855
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7218 SDG#: DX072-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0171	U	0.0171	1.08	1
11031	12378-PeCDD	40321-76-4	0.199	JB	0.0312	5.42	1
11031	123478-HxCDD	39227-28-6	0.168	JB	0.0231	5.42	1
11031	123678-HxCDD	57653-85-7	0.561	JB	0.0239	5.42	1
11031	123789-HxCDD	19408-74-3	0.543	JB	0.0212	5.42	1
11031	1234678-HpCDD	35822-46-9	10.2	B	0.0299	5.42	1
11031	OCDD	3268-87-9	92.0	B	0.0321	10.8	1
11031	2378-TCDF	51207-31-9	0.113	JB	0.0364	1.08	1
11031	12378-PeCDF	57117-41-6	0.753	JB	0.0144	5.42	1
11031	23478-PeCDF	57117-31-4	0.351	JB	0.0165	5.42	1
11031	123478-HxCDF	70648-26-9	0.251	JB	0.0177	5.42	1
11031	123678-HxCDF	57117-44-9	0.151	JB	0.0154	5.42	1
11031	123789-HxCDF	72918-21-9	0.251	JB	0.0198	5.42	1
11031	234678-HxCDF	60851-34-5	0.140	JBQ	0.0164	5.42	1
11031	1234678-HpCDF	67562-39-4	1.08	JB	0.00941	5.42	1
11031	1234789-HpCDF	55673-89-7	0.133	JBQ	0.0176	5.42	1
11031	OCDF	39001-02-0	2.80	JB	0.0247	10.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262855
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7218 SDG#: DX072-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-135-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262855
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7218 SDG#: DX072-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11116001	04/28/2011 07:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11116001	04/26/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242946
Reported: 05/09/11 at 08:46 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11119162401A	Sample number(s): 6262850-6262853								
Moisture Content by 160.3					100		80-120		
Batch number: 11124162401B	Sample number(s): 6262854-6262855								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11115002	Sample number(s): 6262850-6262853								
2378-TCDD	0.0462 J	0.0116	1.00	ng/kg	86		67-158		
12378-PeCDD	0.0571 J	0.0109	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0421 J	0.0111	5.00	ng/kg	88		70-164		
123678-HxCDD	0.0348 J	0.0118	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0543 J	0.0116	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.231 J	0.0143	5.00	ng/kg	87		70-140		
OCDD	0.458 J	0.0179	10.0	ng/kg	89		78-144		
2378-TCDF	0.0227 J	0.0100	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0538 J	0.00570	5.00	ng/kg	88		80-134		
23478-PeCDF	0.0593 J	0.00560	5.00	ng/kg	89		68-160		
123478-HxCDF	0.0469 J	0.00900	5.00	ng/kg	90		72-134		
123678-HxCDF	0.0401 J	0.00800	5.00	ng/kg	88		84-130		
123789-HxCDF	0.0854 J	0.0103	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0651 J	0.00840	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.126 J	0.00770	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0849 J	0.0129	5.00	ng/kg	90		78-138		
OCDF	0.215 J	0.0161	10.0	ng/kg	91		63-170		
Batch number: 11116001	Sample number(s): 6262854-6262855								
2378-TCDD	0.0319 J	0.0138	1.00	ng/kg	105		67-158		
12378-PeCDD	0.0569 J	0.0162	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0389 J	0.0139	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0462 J	0.0144	5.00	ng/kg	103		76-134		
123789-HxCDD	0.0481 J	0.0139	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.211 J	0.0146	5.00	ng/kg	102		70-140		
OCDD	0.517 J	0.0154	10.0	ng/kg	100		78-144		
2378-TCDF	0.0540 J	0.0155	1.00	ng/kg	109		75-158		
12378-PeCDF	0.0631 J	0.0132	5.00	ng/kg	101		80-134		
23478-PeCDF	0.117 J	0.0142	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0838 J	0.0140	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0727 J	0.0123	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0641 J	0.0162	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0953 J	0.0140	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.221 J	0.00640	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.0916 J	0.0106	5.00	ng/kg	99		78-138		
OCDF	0.277 J	0.0208	10.0	ng/kg	97		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242946
Reported: 05/09/11 at 08:46 AM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11119162401A	Sample number(s): 6262850-6262853					BKG: P262838			
Moisture Content by 160.3						14.0	14.0	0	20
Batch number: 11124162401B	Sample number(s): 6262854-6262855					BKG: P262830			
Moisture Content by 160.3						8.2	8.3	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11115002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6262850	84	83	76	90	85	75
6262851	75	75	74	86	79	65
6262852	75	76	68	83	75	66
6262853	75	75	63	71	79	67
Blank	77	78	83	91	84	77
OPR	64	63	68	74	70	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6262850	114	63	55	99	89	92
6262851	107	54	43	88	79	85
6262852	102	55	48	85	81	82
6262853	88	60	53	87	79	80
Blank	100	72	68	95	83	91
OPR	82	60	57	84	69	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6262850	91	93	86	81	75	93
6262851	83	83	77	70	68	83
6262852	82	82	77	71	68	86
6262853	79	80	74	68	71	80
Blank	88	88	87	82	70	84
OPR	74	77	73	68	58	68

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242946
Reported: 05/09/11 at 08:46 AM

Surrogate Quality Control

Limits:	28-130	28-130	23-140	17-157	24-169	24-185
Analysis Name: 10a Dioxin/Furan by EPA 1613B Batch number: 11116001	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6262854	66	62	58	63	58	53
6262855	77	70	65	72	70	64
Blank	73	69	69	78	71	69
OPR	52	51	51	58	53	48
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6262854	77	49	41	77	72	73
6262855	84	55	47	91	77	85
Blank	85	59	52	101	75	81
OPR	66	45	38	78	56	64
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6262854	74	76	66	57	61	81
6262855	87	92	77	76	72	88
Blank	82	81	79	68	68	78
OPR	62	63	59	52	49	55
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1242946 Sample#6262850-55

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by SPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Enceres were collected

Samplers Signature: Stef J Brit

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/60409	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpheryls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-075-SA8N-SS-0.0-0.5	04.19.11	0845	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-075-SA8N-SS-0.0-0.5	04.19.11	0845	SOIL	NONE	1 SS sleeve			X	X															
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	1 SS sleeve			X	X															
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	1 SS sleeve			X	X															
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	1 SS sleeve			X	X															
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	1 SS sleeve			X	X															
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1 SS sleeve			X	X															
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1 SS sleeve			X	X															
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1 SS sleeve			X	X															
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1 SS sleeve			X	X															
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	1 SS sleeve			X	X															
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	1 SS sleeve			X	X															
SL-138-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	4-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	MS/MSD
SL-138-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	2 SS sleeve			X	X															MS/MSD
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	1 SS sleeve			X	X															
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	1 SS sleeve			X	X															
DUP04-SA8N-041911	04.19.11	1105	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
DUP04-SA8N-041911	04.19.11	1105	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/19/2011 / 1700	4/20/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s): 8700 5992 3000, 2996	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/20/2011
Group Number: 1242947
SDG: DX073
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-138-SA8N-SS-0.0-0.5 Soil	6262856
SL-138-SA8N-SS-0.0-0.5MS Soil	6262857
SL-138-SA8N-SS-0.0-0.5MSD Soil	6262858
SL-139-SA8N-SS-0.0-0.5 Soil	6262859
SL-140-SA8N-SS-0.0-0.5 Soil	6262860
DUP04-SA8N-QC-041911 Soil	6262861
SL-171-SA5A-SB-2.0-3.0 Soil	6262862
SL-126-SA5A-SB-4.0-5.0 Soil	6262863
SL-127-SA5A-SB-2.0-3.0 Soil	6262864
EB06-SA8N-SS-041911 Water	6262865

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262856
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262856
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0464	JBQ	0.0172	1.08	1
11031	12378-PeCDD	40321-76-4	0.130	JBQ	0.0234	5.42	1
11031	123478-HxCDD	39227-28-6	0.117	JB	0.0477	5.42	1
11031	123678-HxCDD	57653-85-7	0.490	JBQ	0.0488	5.42	1
11031	123789-HxCDD	19408-74-3	0.556	JB	0.0480	5.42	1
11031	1234678-HpCDD	35822-46-9	3.55	JB	0.0343	5.42	1
11031	OCDD	3268-87-9	28.5	B	0.0336	10.8	1
11031	2378-TCDF	51207-31-9	0.231	JB	0.0390	1.08	1
11031	12378-PeCDF	57117-41-6	0.352	JB	0.0202	5.42	1
11031	23478-PeCDF	57117-31-4	0.448	JB	0.0184	5.42	1
11031	123478-HxCDF	70648-26-9	0.225	JB	0.0309	5.42	1
11031	123678-HxCDF	57117-44-9	0.186	JB	0.0276	5.42	1
11031	123789-HxCDF	72918-21-9	0.298	JB	0.0350	5.42	1
11031	234678-HxCDF	60851-34-5	0.229	JB	0.0273	5.42	1
11031	1234678-HpCDF	67562-39-4	0.804	JB	0.0209	5.42	1
11031	1234789-HpCDF	55673-89-7	0.134	JBQ	0.0329	5.42	1
11031	OCDF	39001-02-0	1.29	JB	0.0329	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262856
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-138-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262856
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/29/2011 15:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262857
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262857
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.4	B	0.0306	1.08	1
11031	12378-PeCDD	40321-76-4	113	B	0.0597	5.42	1
11031	123478-HxCDD	39227-28-6	114	B	0.0528	5.42	1
11031	123678-HxCDD	57653-85-7	113	B	0.0544	5.42	1
11031	123789-HxCDD	19408-74-3	112	B	0.0519	5.42	1
11031	1234678-HpCDD	35822-46-9	116	B	0.0542	5.42	1
11031	OCDD	3268-87-9	253	B	0.0554	10.8	1
11031	2378-TCDF	51207-31-9	23.4	B	0.0685	1.08	1
11031	12378-PeCDF	57117-41-6	111	B	0.0395	5.42	1
11031	23478-PeCDF	57117-31-4	113	B	0.0389	5.42	1
11031	123478-HxCDF	70648-26-9	113	B	0.0631	5.42	1
11031	123678-HxCDF	57117-44-9	113	B	0.0576	5.42	1
11031	123789-HxCDF	72918-21-9	112	B	0.0727	5.42	1
11031	234678-HxCDF	60851-34-5	114	B	0.0592	5.42	1
11031	1234678-HpCDF	67562-39-4	114	B	0.0537	5.42	1
11031	1234789-HpCDF	55673-89-7	114	B	0.0873	5.42	1
11031	OCDF	39001-02-0	229	B	0.0687	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262857
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-138-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262857
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/29/2011 16:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-138-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262858
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262858
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.7	B	0.0357	1.08	1
11031	12378-PeCDD	40321-76-4	110	B	0.0400	5.38	1
11031	123478-HxCDD	39227-28-6	114	B	0.0529	5.38	1
11031	123678-HxCDD	57653-85-7	112	B	0.0541	5.38	1
11031	123789-HxCDD	19408-74-3	110	B	0.0510	5.38	1
11031	1234678-HpCDD	35822-46-9	114	B	0.0568	5.38	1
11031	OCDD	3268-87-9	254	B	0.0620	10.8	1
11031	2378-TCDF	51207-31-9	23.7	B	0.0554	1.08	1
11031	12378-PeCDF	57117-41-6	111	B	0.0359	5.38	1
11031	23478-PeCDF	57117-31-4	111	B	0.0359	5.38	1
11031	123478-HxCDF	70648-26-9	112	B	0.0707	5.38	1
11031	123678-HxCDF	57117-44-9	111	B	0.0639	5.38	1
11031	123789-HxCDF	72918-21-9	111	B	0.0854	5.38	1
11031	234678-HxCDF	60851-34-5	113	B	0.0699	5.38	1
11031	1234678-HpCDF	67562-39-4	112	B	0.0431	5.38	1
11031	1234789-HpCDF	55673-89-7	113	B	0.0690	5.38	1
11031	OCDF	39001-02-0	228	B	0.0541	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262858
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262858
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/29/2011 17:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-139-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262859
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7302 SDG#: DX073-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262859
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7302 SDG#: DX073-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0236 JBQ	0.0147	1.04	1
11031	12378-PeCDD	40321-76-4	0.137 JB	0.0200	5.22	1
11031	123478-HxCDD	39227-28-6	0.133 JB	0.0354	5.22	1
11031	123678-HxCDD	57653-85-7	0.403 JB	0.0369	5.22	1
11031	123789-HxCDD	19408-74-3	0.544 JB	0.0351	5.22	1
11031	1234678-HpCDD	35822-46-9	3.17 JB	0.0343	5.22	1
11031	OCDD	3268-87-9	29.3 B	0.0328	10.4	1
11031	2378-TCDF	51207-31-9	0.0910 JB	0.0259	1.04	1
11031	12378-PeCDF	57117-41-6	0.236 JB	0.0143	5.22	1
11031	23478-PeCDF	57117-31-4	0.286 JB	0.0138	5.22	1
11031	123478-HxCDF	70648-26-9	0.176 JB	0.0261	5.22	1
11031	123678-HxCDF	57117-44-9	0.155 JB	0.0236	5.22	1
11031	123789-HxCDF	72918-21-9	0.276 JB	0.0336	5.22	1
11031	234678-HxCDF	60851-34-5	0.190 JB	0.0261	5.22	1
11031	1234678-HpCDF	67562-39-4	0.666 JBQ	0.0206	5.22	1
11031	1234789-HpCDF	55673-89-7	0.139 JB	0.0341	5.22	1
11031	OCDF	39001-02-0	1.16 JB	0.0376	10.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262859
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7302 SDG#: DX073-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-139-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262859
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7302 SDG#: DX073-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/29/2011 18:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262860
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7303 SDG#: DX073-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-140-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262860
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7303 SDG#: DX073-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.188	JBQ	0.0427	1.14	1
11031	12378-PeCDD	40321-76-4	1.33	JB	0.148	5.72	1
11031	123478-HxCDD	39227-28-6	4.49	JB	0.0791	5.72	1
11031	123678-HxCDD	57653-85-7	5.04	JB	0.0817	5.72	1
11031	123789-HxCDD	19408-74-3	4.17	JB	0.0793	5.72	1
11031	1234678-HpCDD	35822-46-9	171	B	0.111	5.72	1
11031	OCDD	3268-87-9	736	B	0.0889	11.4	1
11031	2378-TCDF	51207-31-9	0.393	JB	0.0883	1.14	1
11031	12378-PeCDF	57117-41-6	0.744	JB	0.0331	5.72	1
11031	23478-PeCDF	57117-31-4	0.819	JB	0.0332	5.72	1
11031	123478-HxCDF	70648-26-9	1.06	JB	0.0431	5.72	1
11031	123678-HxCDF	57117-44-9	0.683	JB	0.0391	5.72	1
11031	123789-HxCDF	72918-21-9	0.532	JB	0.0519	5.72	1
11031	234678-HxCDF	60851-34-5	0.582	JB	0.0410	5.72	1
11031	1234678-HpCDF	67562-39-4	6.37	B	0.0423	5.72	1
11031	1234789-HpCDF	55673-89-7	0.753	JB	0.0736	5.72	1
11031	OCDF	39001-02-0	11.2	JB	0.0586	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-140-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262860
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7303 SDG#: DX073-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262860
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7303 SDG#: DX073-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/29/2011 19:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP04-SA8N-QC-041911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262861
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7304 SDG#: DX073-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP04-SA8N-QC-041911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262861
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7304 SDG#: DX073-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0165	JBQ	0.0151	1.09	1
11031	12378-PeCDD	40321-76-4	0.111	JB	0.0242	5.43	1
11031	123478-HxCDD	39227-28-6	0.106	JB	0.0421	5.43	1
11031	123678-HxCDD	57653-85-7	0.477	JB	0.0428	5.43	1
11031	123789-HxCDD	19408-74-3	0.549	JB	0.0412	5.43	1
11031	1234678-HpCDD	35822-46-9	3.27	JB	0.0332	5.43	1
11031	OCDD	3268-87-9	24.5	B	0.0315	10.9	1
11031	2378-TCDF	51207-31-9	0.215	JBQ	0.0365	1.09	1
11031	12378-PeCDF	57117-41-6	0.274	JB	0.0191	5.43	1
11031	23478-PeCDF	57117-31-4	0.464	JB	0.0188	5.43	1
11031	123478-HxCDF	70648-26-9	0.258	JB	0.0285	5.43	1
11031	123678-HxCDF	57117-44-9	0.160	JBQ	0.0246	5.43	1
11031	123789-HxCDF	72918-21-9	0.263	JBQ	0.0307	5.43	1
11031	234678-HxCDF	60851-34-5	0.176	JBQ	0.0234	5.43	1
11031	1234678-HpCDF	67562-39-4	0.682	JB	0.0206	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0801	JBQ	0.0353	5.43	1
11031	OCDF	39001-02-0	0.997	JB	0.0315	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	91	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	95	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	106	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP04-SA8N-QC-041911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262861
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7304 SDG#: DX073-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP04-SA8N-QC-041911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262861
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7304 SDG#: DX073-04FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/29/2011 20:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-171-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262862
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7305 SDG#: DX073-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262862
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X7305 SDG#: DX073-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0182 U	0.0182	1.20	1
11031	12378-PeCDD	40321-76-4	0.0819 JB	0.0203	5.98	1
11031	123478-HxCDD	39227-28-6	0.0573 JBQ	0.0218	5.98	1
11031	123678-HxCDD	57653-85-7	0.0791 JB	0.0227	5.98	1
11031	123789-HxCDD	19408-74-3	0.141 JBQ	0.0218	5.98	1
11031	1234678-HpCDD	35822-46-9	0.259 JB	0.0203	5.98	1
11031	OCDD	3268-87-9	0.884 JB	0.0318	12.0	1
11031	2378-TCDF	51207-31-9	0.0220 JBQ	0.0170	1.20	1
11031	12378-PeCDF	57117-41-6	0.0743 JBQ	0.0107	5.98	1
11031	23478-PeCDF	57117-31-4	0.104 JB	0.0109	5.98	1
11031	123478-HxCDF	70648-26-9	0.0614 JBQ	0.0130	5.98	1
11031	123678-HxCDF	57117-44-9	0.0601 J	0.0118	5.98	1
11031	123789-HxCDF	72918-21-9	0.131 JBQ	0.0136	5.98	1
11031	234678-HxCDF	60851-34-5	0.0658 JB	0.0117	5.98	1
11031	1234678-HpCDF	67562-39-4	0.102 JBQ	0.0113	5.98	1
11031	1234789-HpCDF	55673-89-7	0.0696 JB	0.0162	5.98	1
11031	OCDF	39001-02-0	0.194 JB	0.0239	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-171-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262862
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7305 SDG#: DX073-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-171-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262862
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7305 SDG#: DX073-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122002	05/05/2011 00:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11122002	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-126-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262863
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7306 SDG#: DX073-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-126-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262863
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7306 SDG#: DX073-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0757	JB	0.0179	1.16	1
11031	12378-PeCDD	40321-76-4	0.279	JB	0.0193	5.80	1
11031	123478-HxCDD	39227-28-6	0.165	JBQ	0.0178	5.80	1
11031	123678-HxCDD	57653-85-7	0.169	JB	0.0186	5.80	1
11031	123789-HxCDD	19408-74-3	0.171	JB	0.0176	5.80	1
11031	1234678-HpCDD	35822-46-9	0.440	JBQ	0.0273	5.80	1
11031	OCDD	3268-87-9	2.87	JB	0.0308	11.6	1
11031	2378-TCDF	51207-31-9	0.0702	JBQ	0.0136	1.16	1
11031	12378-PeCDF	57117-41-6	0.327	JB	0.0101	5.80	1
11031	23478-PeCDF	57117-31-4	0.293	JB	0.00988	5.80	1
11031	123478-HxCDF	70648-26-9	0.218	JB	0.0201	5.80	1
11031	123678-HxCDF	57117-44-9	0.214	JB	0.0177	5.80	1
11031	123789-HxCDF	72918-21-9	0.192	JB	0.0199	5.80	1
11031	234678-HxCDF	60851-34-5	0.183	JB	0.0152	5.80	1
11031	1234678-HpCDF	67562-39-4	0.289	JB	0.0157	5.80	1
11031	1234789-HpCDF	55673-89-7	0.165	JBQ	0.0220	5.80	1
11031	OCDF	39001-02-0	0.346	JB	0.0276	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-126-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262863
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7306 SDG#: DX073-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-126-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262863
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7306 SDG#: DX073-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/30/2011 01:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-127-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262864
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7307 SDG#: DX073-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-127-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262864
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7307 SDG#: DX073-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.144	JBQ	0.0187	1.11	1
11031	12378-PeCDD	40321-76-4	0.529	JB	0.0255	5.55	1
11031	123478-HxCDD	39227-28-6	0.627	JB	0.0720	5.55	1
11031	123678-HxCDD	57653-85-7	1.10	JB	0.0755	5.55	1
11031	123789-HxCDD	19408-74-3	1.03	JB	0.0700	5.55	1
11031	1234678-HpCDD	35822-46-9	26.9	B	0.0754	5.55	1
11031	OCDD	3268-87-9	475	B	0.122	11.1	1
11031	2378-TCDF	51207-31-9	0.158	JB	0.0202	1.11	1
11031	12378-PeCDF	57117-41-6	0.569	JB	0.0148	5.55	1
11031	23478-PeCDF	57117-31-4	0.543	JB	0.0149	5.55	1
11031	123478-HxCDF	70648-26-9	0.836	JB	0.0535	5.55	1
11031	123678-HxCDF	57117-44-9	0.553	JB	0.0488	5.55	1
11031	123789-HxCDF	72918-21-9	0.625	JB	0.0540	5.55	1
11031	234678-HxCDF	60851-34-5	0.524	JB	0.0433	5.55	1
11031	1234678-HpCDF	67562-39-4	6.66	B	0.0334	5.55	1
11031	1234789-HpCDF	55673-89-7	0.649	JBQ	0.0464	5.55	1
11031	OCDF	39001-02-0	10.9	JB	0.0478	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-127-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262864
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7307 SDG#: DX073-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-127-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262864
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7307 SDG#: DX073-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/30/2011 02:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB06-SA8N-SS-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262865
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7308 SDG#: DX073-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.308	U	0.308	2.01	1
10915	12378-PeCDD	40321-76-4	0.499	JBQ	0.408	10.1	1
10915	123478-HxCDD	39227-28-6	0.713	JB	0.337	10.1	1
10915	123678-HxCDD	57653-85-7	0.437	JBQ	0.351	10.1	1
10915	123789-HxCDD	19408-74-3	0.473	JBQ	0.344	10.1	1
10915	1234678-HpCDD	35822-46-9	2.73	JB	0.523	10.1	1
10915	OCDD	3268-87-9	4.69	JB	0.688	20.1	1
10915	2378-TCDF	51207-31-9	0.267	U	0.267	2.01	1
10915	12378-PeCDF	57117-41-6	0.286	JBQ	0.211	10.1	1
10915	23478-PeCDF	57117-31-4	0.646	JB	0.201	10.1	1
10915	123478-HxCDF	70648-26-9	0.574	JB	0.218	10.1	1
10915	123678-HxCDF	57117-44-9	0.451	JB	0.208	10.1	1
10915	123789-HxCDF	72918-21-9	0.588	JB	0.251	10.1	1
10915	234678-HxCDF	60851-34-5	0.488	JBQ	0.192	10.1	1
10915	1234678-HpCDF	67562-39-4	1.22	JB	0.186	10.1	1
10915	1234789-HpCDF	55673-89-7	0.646	JBQ	0.243	10.1	1
10915	OCDF	39001-02-0	1.70	JB	0.660	20.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	52	25 - 164
13C12-12378-PeCDD	43	25 - 181
13C12-123478-HxCDD	45	32 - 141
13C12-123678-HxCDD	45	28 - 130
13C12-123789-HxCDD	45	28 - 130
13C12-1234678-HpCDD	38	23 - 140
13C12-OCDD	28	17 - 157
13C12-2378-TCDF	52	24 - 169
13C12-12378-PeCDF	44	24 - 185
13C12-23478-PeCDF	43	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	46	28 - 136
13C12-123789-HxCDF	44	29 - 147
13C12-1234678-HpCDF	38	28 - 143
13C12-1234789-HpCDF	35	26 - 138
13C12-OCDF	26	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB06-SA8N-SS-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262865
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7308 SDG#: DX073-08EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122001	05/04/2011 17:27	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11122001	05/02/2011 08:30	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242947
Reported: 05/10/11 at 10:13 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11119162401A	Sample number(s): 6262862-6262864								
Moisture Content by 160.3					100		80-120		
Batch number: 11124162401B	Sample number(s): 6262856-6262861								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11117001	Sample number(s): 6262856-6262861,6262863-6262864								
2378-TCDD	0.0430 J	0.0175	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0524 J	0.0149	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0460 J	0.0135	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0426 J	0.0142	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0546 J	0.0135	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.222 J	0.0201	5.00	ng/kg	102		70-140		
OCDD	0.573 J	0.0258	10.0	ng/kg	102		78-144		
2378-TCDF	0.0189 J	0.0133	1.00	ng/kg	110		75-158		
12378-PeCDF	0.0492 J	0.00870	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0795 J	0.00870	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0592 J	0.0101	5.00	ng/kg	105		72-134		
123678-HxCDF	0.0417 J	0.00940	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0964 J	0.0126	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0597 J	0.0103	5.00	ng/kg	104		70-156		
1234678-HpCDF	0.145 J	0.00850	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.108 J	0.0127	5.00	ng/kg	103		78-138		
OCDF	0.266 J	0.0247	10.0	ng/kg	103		63-170		
Batch number: 11122001	Sample number(s): 6262865								
2378-TCDD	0.371 J	0.287	2.00	pg/l	98		67-158		
12378-PeCDD	0.428 J	0.422	10.0	pg/l	102		70-142		
123478-HxCDD	0.811 J	0.480	10.0	pg/l	105		70-164		
123678-HxCDD	0.674 J	0.494	10.0	pg/l	106		76-134		
123789-HxCDD	1.07 J	0.479	10.0	pg/l	102		64-162		
1234678-HpCDD	4.37 J	0.749	10.0	pg/l	105		70-140		
OCDD	7.09 J	0.667	20.0	pg/l	109		78-144		
2378-TCDF	0.244 U	0.244	2.00	pg/l	99		75-158		
12378-PeCDF	0.992 J	0.184	10.0	pg/l	100		80-134		
23478-PeCDF	0.699 J	0.169	10.0	pg/l	100		68-160		
123478-HxCDF	0.812 J	0.228	10.0	pg/l	100		72-134		
123678-HxCDF	0.817 J	0.220	10.0	pg/l	103		84-130		
123789-HxCDF	0.969 J	0.250	10.0	pg/l	101		78-130		
234678-HxCDF	0.470 J	0.201	10.0	pg/l	100		70-156		
1234678-HpCDF	1.81 J	0.299	10.0	pg/l	106		82-122		
1234789-HpCDF	0.983 J	0.384	10.0	pg/l	108		78-138		
OCDF	2.65 J	0.776	20.0	pg/l	110		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242947
Reported: 05/10/11 at 10:13 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11122002	Sample number(s): 6262862								
2378-TCDD	0.0172 U	0.0172	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0291 J	0.0152	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0176 J	0.0135	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0563 J	0.0139	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0395 J	0.0129	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.160 J	0.0232	5.00	ng/kg	100		70-140		
OCDD	0.283 J	0.0219	10.0	ng/kg	100		78-144		
2378-TCDF	0.0138 J	0.0129	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0402 J	0.00770	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0477 J	0.00730	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0299 J	0.00990	5.00	ng/kg	100		72-134		
123678-HxCDF	0.00940 U	0.00940	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0587 J	0.0100	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0330 J	0.00890	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.0552 J	0.00880	5.00	ng/kg	99		82-122		
1234789-HpCDF	0.0327 J	0.0126	5.00	ng/kg	101		78-138		
OCDF	0.0855 J	0.0225	10.0	ng/kg	101		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11119162401A	Sample number(s): 6262862-6262864					BKG: P262838			
Moisture Content by 160.3						14.0	14.0	0	20
Batch number: 11124162401B	Sample number(s): 6262856-6262861					BKG: P262830			
Moisture Content by 160.3						8.2	8.3	1	20
Batch number: 11117001	Sample number(s): 6262856-6262861,6262863-6262864					UNSPK: 6262856			
2378-TCDD	98	96	67-158	3	25				
12378-PeCDD	104	102	70-142	2	25				
123478-HxCDD	105	106	70-164	0	25				
123678-HxCDD	104	104	76-134	1	25				
123789-HxCDD	103	102	64-162	2	25				
1234678-HpCDD	103	102	70-140	2	25				
OCDD	103	105	78-144	0	25				
2378-TCDF	107	109	75-158	1	25				
12378-PeCDF	102	103	80-134	0	25				
23478-PeCDF	104	103	68-160	2	25				
123478-HxCDF	104	104	72-134	1	25				
123678-HxCDF	104	103	84-130	1	25				
123789-HxCDF	103	103	78-130	1	25				
234678-HxCDF	105	105	70-156	1	25				
1234678-HpCDF	104	104	82-122	1	25				
1234789-HpCDF	105	105	78-138	0	25				
OCDF	105	105	63-170	1	25				
Batch number: 11122002	Sample number(s): 6262862					UNSPK: P259080			
2378-TCDD	99	99	67-158	1	25				
12378-PeCDD	101	103	70-142	3	25				

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242947
Reported: 05/10/11 at 10:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
123478-HxCDD	101	104	70-164	4	25				
123678-HxCDD	102	102	76-134	2	25				
123789-HxCDD	101	100	64-162	0	25				
1234678-HpCDD	101	130	70-140	20	25				
OCDD	127	314*	78-144	44*	25				
2378-TCDF	107	99	75-158	3	25				
12378-PeCDF	101	101	80-134	1	25				
23478-PeCDF	102	99	68-160	2	25				
123478-HxCDF	103	101	72-134	1	25				
123678-HxCDF	100	102	84-130	3	25				
123789-HxCDF	102	100	78-130	1	25				
234678-HxCDF	102	103	70-156	2	25				
1234678-HpCDF	105	105	82-122	1	25				
1234789-HpCDF	103	102	78-138	0	25				
OCDF	105	108	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11117001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6262856	72	76	72	77	76	67
6262857	73	71	71	76	71	66
6262858	80	79	79	85	80	72
6262859	77	75	76	82	76	66
6262860	76	77	74	80	76	67
6262861	91	89	76	85	90	78
6262863	71	74	61	69	78	70
6262864	74	71	62	68	75	68
Blank	66	64	69	75	69	63
MS	73	71	71	76	71	66
MSD	80	79	79	85	80	72
OPR	64	66	70	77	73	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6262856	84	62	57	83	82	79
6262857	85	61	57	84	76	77
6262858	93	67	62	93	84	84
6262859	85	59	49	88	81	81
6262860	85	57	48	88	81	80
6262861	99	71	63	106	97	95
6262863	78	65	57	88	78	83

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242947
Reported: 05/10/11 at 10:13 PM

Surrogate Quality Control

6262864	74	63	58	86	76	77
Blank	83	62	60	88	69	74
MS	85	61	57	84	76	77
MSD	93	67	62	93	84	84
OPR	86	63	59	88	73	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6262856	77	77	72	66	68	77
6262857	74	77	72	66	66	75
6262858	85	86	79	71	74	83
6262859	80	80	73	65	72	79
6262860	81	80	74	66	71	80
6262861	95	96	91	82	83	95
6262863	78	81	77	71	67	77
6262864	79	79	73	68	69	76
Blank	75	74	73	69	59	68
MS	74	77	72	66	66	75
MSD	85	86	79	71	74	83
OPR	78	79	75	70	59	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11122001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6262865	52	43	44	45	46	44
Blank	71	61	63	65	67	65
OPR	79	67	76	77	75	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6262865	38	35	26	73	43	45
Blank	56	52	40	93	60	64
OPR	65	58	46	88	67	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6262865	45	45	38	28	52	44
Blank	64	65	55	42	73	61
OPR	74	75	63	49	79	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11122002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6262862	66	64	62	67	67	63

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242947
Reported: 05/10/11 at 10:13 PM

Surrogate Quality Control

Blank	62	62	62	65	67	67
MS	81	79	81	85	83	81
MSD	72	69	66	67	75	74
OPR	68	67	70	75	72	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6262862	74	62	60	76	68	74
Blank	71	61	58	73	65	70
MS	90	79	76	86	82	89
MSD	73	67	65	74	71	81
OPR	82	67	64	81	71	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6262862	75	74	71	69	62	71
Blank	71	72	71	69	58	63
MS	88	87	86	84	79	88
MSD	81	81	76	77	70	77
OPR	76	78	76	74	63	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

occt#13013 Gp#1242947 Sample# 62628556-65

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which filtrates were collected Samplers Signature: Stacy J Brite						*Metals EPA 6010B/6020B/7471A	*Rhenium EPA 3050	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxins/Furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196F	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 9056 (10%)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Fumarates/yls EPA 8015A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrazoles EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																			
SL-075-SA8N-SS-0.0-0.5	04.19.11	0845	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-075-SA8N-SS-0.0-0.5	04.19.11	0845	SOIL	NONE	1 SS sleeve			X	X															
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	1 SS sleeve			X	X															
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	1 SS sleeve			X	X															
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	1 SS sleeve			X	X															
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	1 SS sleeve			X	X															
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1 SS sleeve			X	X															
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1 SS sleeve			X	X															
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1 SS sleeve			X	X															
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1 SS sleeve			X	X															
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	1 SS sleeve			X	X															
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	1 SS sleeve			X	X															
SL-138-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	4-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	MS/MSD
SL-138-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	2 SS sleeve			X	X															MS/MSD
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	1 SS sleeve			X	X															
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	1 SS sleeve			X	X															
DUP04-SA8N-041911	04.19.11	1105	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
DUP04-SA8N-041911	04.19.11	1105	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/19/2011 / 1700	Yong Hubard 4/20/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s): 8700 5952 3000, 2996	

→ DUP04-SA8N-QC-041911 per PB. NLM 5/6/11

acct#13013 Qp# 1242947 Sample# 62628556-65

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesh/Furan EPA 16138	*Perchlorate EPA 314.0	*Hex Chromium EPA 7196@	*pH EPA 9045C/9040B	Percolation Confirmation by EPA 9950 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-171-SA5A-SB-2.5	04.19.11	0940	SOIL	NONE	4-Encores										X	X											
SL-171-SA5A-SB-2.0-3.0	04.19.11	0942	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-126-SA5A-SB-4.5	04.19.11	1225	SOIL	NONE	4-Encores										X	X											
SL-126-SA5A-SB-4.-5.0	04.19.11	1227	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-127-SA5A-SB-2.5	04.19.11	1115	SOIL	NONE	4-Encores										X	X											
SL-127-SA5A-SB-2.0-3.0	04.19.11	1117	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
TB-041911	04.19.11	0800	WATER	NONE	3-40 mL vials										X	X											TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/19/2011 / 1700		Received for Laboratory by: (Signature) 4/20/11 915																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8700 5932 2974																								

acct#13013 Cp#1242947 sample#62628856-65

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
# Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which 6 cores were collected

Samplers Signatures: Steve Blute

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	Chloride/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TRH-EPH EPA 8015B Mod.	*Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Dyestds EPA 8012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	7-1 liter ambers			X	X	X																
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	1-500 mL poly		X				X	X	X													
EB06-SA8N-SS-041911	04.19.11	1200	WATER	HNO3	1-500 mL poly	X																				
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	5-1 liter ambers												X			X	X		X			
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NaOH	1-500 mL glass																	X				
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	1-250 mL glass														X							
EB06-SA8N-SS-041911	04.19.11	1200	WATER	HCl	2-40 mL vials																				X	
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	4-40 mL vials													X						X		

Relinquished by: (Signature) — Date/Time: 04/19/2011 / 1700 — Received for Laboratory by: (Signature) Mary Hallock 4/20/11 915

Received by: (Signature) — Date/Time — AirBill No.(s): 8700 5932 2985,2996

Laboratory: Lancaster Laboratories, Inc.

Nicole Maljovec A#13013 Grp#1242947 Sample#G26285 6-65

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Wednesday, May 04, 2011 3:42 PM
To: Nicole Maljovec
Subject: RE: Revision to COC dated 4.19.2011

I thought I had replied to this. You are correct it should be 041911 and not 041011 (that was a typo!).

P

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Wednesday, May 04, 2011 12:28 PM
To: Bloisa, Peggy
Subject: RE: Revision to COC dated 4.19.2011

Hi Peggy,
Did you have a chance to check on this one?

Thanks!
Nicole

From: Nicole Maljovec
Sent: Monday, May 02, 2011 11:58 AM
To: 'Bloisa, Peggy'
Subject: RE: Revision to COC dated 4.19.2011

Hi Peggy,
I was reviewing this change today and noticed the date. Did you mean DUP04-SA8N-QC-041911?

Thanks!
Nicole

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Friday, April 22, 2011 5:09 PM
To: Nicole Maljovec; Hartman, Pamela
Cc: Zakowski, Cherie; Burgesser, Todd
Subject: Revision to COC dated 4.19.2011

Hi Nicole – would you please make the following change to surface soil sample DUP04-SA8N-041911? The sample number should read as DUP04-SA8N-QC-041011.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 16, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/21/2011
Group Number: 1243238
SDG: DX075
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-148-SA5A-SB-4.0-5.0 Soil	6264856
SL-148-SA5A-SB-4.0-5.0MS Soil	6264857
SL-148-SA5A-SB-4.0-5.0MSD Soil	6264858
SL-148-SA5A-SB-9.0-10.0 Soil	6264859
DUP15-SA5A-QC-042011 Soil	6264860

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-148-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264856
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7501 SDG#: DX075-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-148-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264856
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7501 SDG#: DX075-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0149 U	0.0149	1.11	1
11031	12378-PeCDD	40321-76-4	0.0297 JBQ	0.0137	5.53	1
11031	123478-HxCDD	39227-28-6	0.0129 U	0.0129	5.53	1
11031	123678-HxCDD	57653-85-7	0.0320 JB	0.0137	5.53	1
11031	123789-HxCDD	19408-74-3	0.0905 JB	0.0131	5.53	1
11031	1234678-HpCDD	35822-46-9	0.197 JBQ	0.0166	5.53	1
11031	OCDD	3268-87-9	0.583 JB	0.0222	11.1	1
11031	2378-TCDF	51207-31-9	0.0121 U	0.0121	1.11	1
11031	12378-PeCDF	57117-41-6	0.0357 JBQ	0.00661	5.53	1
11031	23478-PeCDF	57117-31-4	0.0507 JBQ	0.00695	5.53	1
11031	123478-HxCDF	70648-26-9	0.0242 JBQ	0.00729	5.53	1
11031	123678-HxCDF	57117-44-9	0.0197 JBQ	0.00650	5.53	1
11031	123789-HxCDF	72918-21-9	0.0518 JBQ	0.00886	5.53	1
11031	234678-HxCDF	60851-34-5	0.0146 JBQ	0.00673	5.53	1
11031	1234678-HpCDF	67562-39-4	0.0205 JBQ	0.00987	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0277 JB	0.0178	5.53	1
11031	OCDF	39001-02-0	0.0600 JBQ	0.0223	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-148-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264856
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7501 SDG#: DX075-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-148-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264856
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7501 SDG#: DX075-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11123001	05/06/2011 00:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11123001	05/05/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401A	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-148-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264857
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7501 SDG#: DX075-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-148-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264857
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7501 SDG#: DX075-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.0		0.0269	1.11	1
11031	12378-PeCDD	40321-76-4	109	B	0.0327	5.54	1
11031	123478-HxCDD	39227-28-6	109	B	0.0471	5.54	1
11031	123678-HxCDD	57653-85-7	108	B	0.0481	5.54	1
11031	123789-HxCDD	19408-74-3	108	B	0.0467	5.54	1
11031	1234678-HpCDD	35822-46-9	106	B	0.0635	5.54	1
11031	OCDD	3268-87-9	215	B	0.0443	11.1	1
11031	2378-TCDF	51207-31-9	22.6	B	0.0339	1.11	1
11031	12378-PeCDF	57117-41-6	106	B	0.0234	5.54	1
11031	23478-PeCDF	57117-31-4	108	B	0.0246	5.54	1
11031	123478-HxCDF	70648-26-9	109	B	0.0621	5.54	1
11031	123678-HxCDF	57117-44-9	107	B	0.0548	5.54	1
11031	123789-HxCDF	72918-21-9	107	B	0.0714	5.54	1
11031	234678-HxCDF	60851-34-5	109	B	0.0608	5.54	1
11031	1234678-HpCDF	67562-39-4	107	B	0.0413	5.54	1
11031	1234789-HpCDF	55673-89-7	108	B	0.0685	5.54	1
11031	OCDF	39001-02-0	217	B	0.0667	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-148-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264857
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7501 SDG#: DX075-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-148-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264857
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7501 SDG#: DX075-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11123001	05/06/2011 01:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11123001	05/05/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401A	05/13/2011 17:52	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-148-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264858
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7501 SDG#: DX075-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-148-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264858
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7501 SDG#: DX075-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.2		0.0279	1.07	1
11031	12378-PeCDD	40321-76-4	103	B	0.0290	5.34	1
11031	123478-HxCDD	39227-28-6	105	B	0.0325	5.34	1
11031	123678-HxCDD	57653-85-7	104	B	0.0327	5.34	1
11031	123789-HxCDD	19408-74-3	102	B	0.0314	5.34	1
11031	1234678-HpCDD	35822-46-9	103	B	0.0558	5.34	1
11031	OCDD	3268-87-9	209	B	0.0623	10.7	1
11031	2378-TCDF	51207-31-9	21.4	B	0.0331	1.07	1
11031	12378-PeCDF	57117-41-6	102	B	0.0280	5.34	1
11031	23478-PeCDF	57117-31-4	104	B	0.0294	5.34	1
11031	123478-HxCDF	70648-26-9	104	B	0.0416	5.34	1
11031	123678-HxCDF	57117-44-9	103	B	0.0385	5.34	1
11031	123789-HxCDF	72918-21-9	103	B	0.0481	5.34	1
11031	234678-HxCDF	60851-34-5	105	B	0.0405	5.34	1
11031	1234678-HpCDF	67562-39-4	103	B	0.0376	5.34	1
11031	1234789-HpCDF	55673-89-7	104	B	0.0598	5.34	1
11031	OCDF	39001-02-0	209	B	0.0623	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-148-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264858
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7501 SDG#: DX075-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-148-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-4.0-5.0

LLI Sample # SW 6264858
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:00

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7501 SDG#: DX075-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11123001	05/06/2011 02:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11123001	05/05/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401A	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-148-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-9.0-10.0

LLI Sample # SW 6264859
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:50

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7502 SDG#: DX075-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-9.0-10.0

LLI Sample # SW 6264859
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:50

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7502 SDG#: DX075-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0303	JQ	0.0152	1.16	1
11031	12378-PeCDD	40321-76-4	0.0825	JBQ	0.0151	5.80	1
11031	123478-HxCDD	39227-28-6	0.0160	JBQ	0.0123	5.80	1
11031	123678-HxCDD	57653-85-7	0.0312	JBQ	0.0125	5.80	1
11031	123789-HxCDD	19408-74-3	0.0488	JB	0.0121	5.80	1
11031	1234678-HpCDD	35822-46-9	0.194	JB	0.0176	5.80	1
11031	OCDD	3268-87-9	0.550	JB	0.0204	11.6	1
11031	2378-TCDF	51207-31-9	0.0129	U	0.0129	1.16	1
11031	12378-PeCDF	57117-41-6	0.0700	JBQ	0.00785	5.80	1
11031	23478-PeCDF	57117-31-4	0.0770	JB	0.00820	5.80	1
11031	123478-HxCDF	70648-26-9	0.0431	JBQ	0.00867	5.80	1
11031	123678-HxCDF	57117-44-9	0.0436	JBQ	0.00749	5.80	1
11031	123789-HxCDF	72918-21-9	0.0961	JB	0.0103	5.80	1
11031	234678-HxCDF	60851-34-5	0.0646	JB	0.00796	5.80	1
11031	1234678-HpCDF	67562-39-4	0.0529	JBQ	0.0105	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0623	JB	0.0190	5.80	1
11031	OCDF	39001-02-0	0.148	JBQ	0.0288	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-148-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-9.0-10.0

LLI Sample # SW 6264859
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:50

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7502 SDG#: DX075-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-148-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5A-SB-9.0-10.0

LLI Sample # SW 6264859
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:50

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7502 SDG#: DX075-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11123001	05/06/2011 03:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11123001	05/05/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401A	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP15-SA5A-QC-042011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5A-QC-042011

LLI Sample # SW 6264860
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:05

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7503 SDG#: DX075-03FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP15-SA5A-QC-042011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5A-QC-042011

LLI Sample # SW 6264860
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:05

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7503 SDG#: DX075-03FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0255 JQ	0.0175	1.06	1
11031	12378-PeCDD	40321-76-4	0.0427 JBQ	0.0163	5.32	1
11031	123478-HxCDD	39227-28-6	0.0434 JBQ	0.0254	5.32	1
11031	123678-HxCDD	57653-85-7	0.0464 JBQ	0.0261	5.32	1
11031	123789-HxCDD	19408-74-3	0.174 JBQ	0.0246	5.32	1
11031	1234678-HpCDD	35822-46-9	0.245 JBQ	0.0403	5.32	1
11031	OCDD	3268-87-9	0.513 JB	0.0369	10.6	1
11031	2378-TCDF	51207-31-9	0.0160 U	0.0160	1.06	1
11031	12378-PeCDF	57117-41-6	0.0505 JBQ	0.00837	5.32	1
11031	23478-PeCDF	57117-31-4	0.0698 JB	0.00904	5.32	1
11031	123478-HxCDF	70648-26-9	0.0428 JBQ	0.0138	5.32	1
11031	123678-HxCDF	57117-44-9	0.0419 JBQ	0.0123	5.32	1
11031	123789-HxCDF	72918-21-9	0.148 JBQ	0.0173	5.32	1
11031	234678-HxCDF	60851-34-5	0.0475 JBQ	0.0131	5.32	1
11031	1234678-HpCDF	67562-39-4	0.0438 JBQ	0.0199	5.32	1
11031	1234789-HpCDF	55673-89-7	0.0699 JBQ	0.0393	5.32	1
11031	OCDF	39001-02-0	0.155 JB	0.0379	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP15-SA5A-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5A-QC-042011

LLI Sample # SW 6264860
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:05

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7503 SDG#: DX075-03FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **DUP15-SA5A-QC-042011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5A-QC-042011

LLI Sample # SW 6264860
LLI Group # 1243238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 11:05

Submitted: 04/21/2011 10:30
Reported: 05/16/2011 08:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7503 SDG#: DX075-03FD*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11123001	05/06/2011 07:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11123001	05/05/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401A	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243238
Reported: 05/16/11 at 08:18 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11133162401A	Sample number(s): 6264856-6264860								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11123001	Sample number(s): 6264856-6264860								
2378-TCDD	0.0150 U	0.0150	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0496 J	0.0136	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0363 J	0.0116	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0275 J	0.0119	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0438 J	0.0114	5.00	ng/kg	97		64-162		
1234678-HpCDD	0.150 J	0.0151	5.00	ng/kg	98		70-140		
OCDD	0.313 J	0.0194	10.0	ng/kg	98		78-144		
2378-TCDF	0.0160 J	0.0120	1.00	ng/kg	105		75-158		
12378-PeCDF	0.0434 J	0.00690	5.00	ng/kg	97		80-134		
23478-PeCDF	0.0623 J	0.00680	5.00	ng/kg	98		68-160		
123478-HxCDF	0.0377 J	0.00770	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0353 J	0.00720	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0525 J	0.00910	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0333 J	0.00750	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0451 J	0.00630	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.0413 J	0.00970	5.00	ng/kg	100		78-138		
OCDF	0.106 J	0.0223	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11133162401A	Sample number(s): 6264856-6264860 BKG: P264845								
Moisture Content by 160.3						10.8	11.1	2	20
Batch number: 11123001	Sample number(s): 6264856-6264860 UNSPK: 6264856								
2378-TCDD	95	94	67-158	4	25				
12378-PeCDD	99	97	70-142	5	25				
123478-HxCDD	98	98	70-164	4	25				
123678-HxCDD	98	98	76-134	4	25				
123789-HxCDD	97	96	64-162	5	25				
1234678-HpCDD	96	96	70-140	3	25				
OCDD	97	98	78-144	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243238
Reported: 05/16/11 at 08:18 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	102	100	75-158	6	25				
12378-PeCDF	96	96	80-134	3	25				
23478-PeCDF	98	97	68-160	4	25				
123478-HxCDF	99	97	72-134	5	25				
123678-HxCDF	96	97	84-130	3	25				
123789-HxCDF	96	97	78-130	3	25				
234678-HxCDF	99	99	70-156	4	25				
1234678-HpCDF	96	97	82-122	3	25				
1234789-HpCDF	98	97	78-138	4	25				
OCDF	98	98	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11123001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6264856	69	66	68	76	71	62
6264857	64	65	69	75	69	64
6264858	70	67	72	78	71	67
6264859	72	68	69	76	71	62
6264860	62	57	59	67	61	52
Blank	75	74	79	84	79	74
MS	64	65	69	75	69	64
MSD	70	67	72	78	71	67
OPR	64	64	68	74	70	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6264856	87	57	50	83	74	80
6264857	84	57	55	81	72	78
6264858	86	65	62	80	73	78
6264859	88	56	49	82	75	81
6264860	76	46	40	72	63	69
Blank	92	71	66	93	79	87
MS	84	57	55	81	72	78
MSD	86	65	62	80	73	78
OPR	84	62	59	83	71	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6264856	78	79	78	73	63	73

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243238
Reported: 05/16/11 at 08:18 AM

Surrogate Quality Control

6264857	76	77	76	73	59	71
6264858	79	79	77	75	66	74
6264859	80	81	77	74	66	75
6264860	69	70	65	60	56	64
Blank	86	87	85	83	69	77
MS	76	77	76	73	59	71
MSD	79	79	77	75	66	74
OPR	77	79	78	76	58	67
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1243238 Sample# 6260856-60

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: AGrzanel

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS									Other instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-148-SA5A-SB-4.5MS	04.20.11	1059	SOIL	NONE	15-Encores									X	X	X										MS/MSD
SL-148-SA5A-SB-4.0-5.0MS	04.20.11	1100	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		MS/MSD
SL-148-SA5A-SB-9.5	04.20.11	1510	SOIL	NONE	5-Encores									X	X	X										
SL-148-SA5A-SB-9.0-10.0	04.20.11	1150	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
DUP15-SA5A-QC-042011	04.20.11	1105	SOIL	NONE	5-Encores									X	X	X										
DUP15-SA5A-QC-042011	04.20.11	1105	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
TB-042011	04.20.11	0800	WATER	NONE	4-40 mL vials									X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/20/2011 / 1700

Received for Laboratory by: (Signature) 4/21/11 1030

Received by: (Signature) — Date/Time

Airbill No.(s): 8695 1442 0225

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/23/2011
Group Number: 1243644
SDG: DX077
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-007-SA8N-SB-4.0-5.0 Soil	6267482
SL-007-SA8N-SB-9.0-10.0 Soil	6267483
SL-010-SA8N-SB-4.0-5.0 Soil	6267484
SL-010-SA8N-SB-9.0-10.0 Soil	6267485
SL-011-SA8N-SB-4.0-5.0 Soil	6267486
SL-011-SA8N-SB-9.0-10.0 Soil	6267487
SL-064-SA5A-SB-3.0-4.0 Soil	6267488
SL-064-SA5A-SB-3.0-4.0MS Soil	6267489
SL-064-SA5A-SB-3.0-4.0MSD Soil	6267490
SL-166-SA5A-SS-0.0-0.5 Soil	6267491
SL-253-SA5A-SB-4.0-5.0 Soil	6267492
SL-253-SA5A-SB-8.0-9.0 Soil	6267493
DUP16-SA5A-QC-042211 Soil	6267494

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-007-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267482
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7701 SDG#: DX077-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267482
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7701 SDG#: DX077-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0222 JB	0.0151	1.15	1
11031	12378-PeCDD	40321-76-4	0.0404 JBQ	0.0138	5.73	1
11031	123478-HxCDD	39227-28-6	0.0236 JBQ	0.0110	5.73	1
11031	123678-HxCDD	57653-85-7	0.0196 JBQ	0.0117	5.73	1
11031	123789-HxCDD	19408-74-3	0.0413 JB	0.0108	5.73	1
11031	1234678-HpCDD	35822-46-9	0.305 JB	0.0202	5.73	1
11031	OCDD	3268-87-9	0.851 JB	0.0288	11.5	1
11031	2378-TCDF	51207-31-9	0.0162 JQ	0.0138	1.15	1
11031	12378-PeCDF	57117-41-6	0.0397 JBQ	0.00698	5.73	1
11031	23478-PeCDF	57117-31-4	0.0851 JB	0.00709	5.73	1
11031	123478-HxCDF	70648-26-9	0.0674 JB	0.0121	5.73	1
11031	123678-HxCDF	57117-44-9	0.0576 JBQ	0.0105	5.73	1
11031	123789-HxCDF	72918-21-9	0.0689 JB	0.0134	5.73	1
11031	234678-HxCDF	60851-34-5	0.0857 JB	0.0112	5.73	1
11031	1234678-HpCDF	67562-39-4	0.248 JB	0.00977	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0634 JB	0.0151	5.73	1
11031	OCDF	39001-02-0	0.209 JB	0.0219	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267482
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7701 SDG#: DX077-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-007-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267482
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7701 SDG#: DX077-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/07/2011 22:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-007-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267483
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7702 SDG#: DX077-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267483
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7702 SDG#: DX077-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0156 U	0.0156	1.14	1
11031	12378-PeCDD	40321-76-4	0.0279 JB	0.0156	5.71	1
11031	123478-HxCDD	39227-28-6	0.0127 U	0.0127	5.71	1
11031	123678-HxCDD	57653-85-7	0.0141 JBQ	0.0130	5.71	1
11031	123789-HxCDD	19408-74-3	0.0309 JBQ	0.0127	5.71	1
11031	1234678-HpCDD	35822-46-9	0.205 JB	0.0174	5.71	1
11031	OCDD	3268-87-9	0.446 JB	0.0217	11.4	1
11031	2378-TCDF	51207-31-9	0.0128 U	0.0128	1.14	1
11031	12378-PeCDF	57117-41-6	0.0234 JBQ	0.00739	5.71	1
11031	23478-PeCDF	57117-31-4	0.0642 JB	0.00774	5.71	1
11031	123478-HxCDF	70648-26-9	0.0263 JBQ	0.0102	5.71	1
11031	123678-HxCDF	57117-44-9	0.0293 JBQ	0.00889	5.71	1
11031	123789-HxCDF	72918-21-9	0.0386 JBQ	0.0111	5.71	1
11031	234678-HxCDF	60851-34-5	0.0430 JBQ	0.00935	5.71	1
11031	1234678-HpCDF	67562-39-4	0.125 JB	0.00843	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0440 JBQ	0.0125	5.71	1
11031	OCDF	39001-02-0	0.136 JBQ	0.0245	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267483
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7702 SDG#: DX077-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-007-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267483
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7702 SDG#: DX077-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/07/2011 23:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267484
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7703 SDG#: DX077-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267484
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7703 SDG#: DX077-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0151 U	0.0151	1.15	1
11031	12378-PeCDD	40321-76-4	0.0133 U	0.0133	5.76	1
11031	123478-HxCDD	39227-28-6	0.0135 JBQ	0.0110	5.76	1
11031	123678-HxCDD	57653-85-7	0.0211 JB	0.0114	5.76	1
11031	123789-HxCDD	19408-74-3	0.0168 JBQ	0.0110	5.76	1
11031	1234678-HpCDD	35822-46-9	0.209 JB	0.0172	5.76	1
11031	OCDD	3268-87-9	0.530 JB	0.0221	11.5	1
11031	2378-TCDF	51207-31-9	0.0125 U	0.0125	1.15	1
11031	12378-PeCDF	57117-41-6	0.0118 JBQ	0.00738	5.76	1
11031	23478-PeCDF	57117-31-4	0.0750 JBQ	0.00761	5.76	1
11031	123478-HxCDF	70648-26-9	0.0614 JB	0.0109	5.76	1
11031	123678-HxCDF	57117-44-9	0.0373 JBQ	0.00972	5.76	1
11031	123789-HxCDF	72918-21-9	0.0124 U	0.0124	5.76	1
11031	234678-HxCDF	60851-34-5	0.0709 JBQ	0.0102	5.76	1
11031	1234678-HpCDF	67562-39-4	0.229 JB	0.00890	5.76	1
11031	1234789-HpCDF	55673-89-7	0.0483 JBQ	0.0136	5.76	1
11031	OCDF	39001-02-0	0.191 JB	0.0226	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267484
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7703 SDG#: DX077-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267484
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7703 SDG#: DX077-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 00:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267485
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7704 SDG#: DX077-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267485
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7704 SDG#: DX077-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0134 U	0.0134	1.16	1
11031	12378-PeCDD	40321-76-4	0.0160 JB	0.0133	5.81	1
11031	123478-HxCDD	39227-28-6	0.0152 JBQ	0.0123	5.81	1
11031	123678-HxCDD	57653-85-7	0.0203 JBQ	0.0125	5.81	1
11031	123789-HxCDD	19408-74-3	0.0244 JBQ	0.0118	5.81	1
11031	1234678-HpCDD	35822-46-9	0.225 JB	0.0150	5.81	1
11031	OCDD	3268-87-9	0.528 JB	0.0192	11.6	1
11031	2378-TCDF	51207-31-9	0.0110 U	0.0110	1.16	1
11031	12378-PeCDF	57117-41-6	0.0153 JB	0.00675	5.81	1
11031	23478-PeCDF	57117-31-4	0.0696 JB	0.00686	5.81	1
11031	123478-HxCDF	70648-26-9	0.0555 JBQ	0.00911	5.81	1
11031	123678-HxCDF	57117-44-9	0.0368 JBQ	0.00817	5.81	1
11031	123789-HxCDF	72918-21-9	0.0102 U	0.0102	5.81	1
11031	234678-HxCDF	60851-34-5	0.0725 JB	0.00828	5.81	1
11031	1234678-HpCDF	67562-39-4	0.233 JB	0.00828	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0351 JB	0.0124	5.81	1
11031	OCDF	39001-02-0	0.197 JBQ	0.0173	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267485
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7704 SDG#: DX077-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267485
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7704 SDG#: DX077-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 01:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267486
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7705 SDG#: DX077-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267486
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7705 SDG#: DX077-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0174 JBQ	0.0153	1.14	1
11031	12378-PeCDD	40321-76-4	0.0252 JBQ	0.0150	5.71	1
11031	123478-HxCDD	39227-28-6	0.0147 JBQ	0.0128	5.71	1
11031	123678-HxCDD	57653-85-7	0.0175 JBQ	0.0130	5.71	1
11031	123789-HxCDD	19408-74-3	0.0355 JB	0.0129	5.71	1
11031	1234678-HpCDD	35822-46-9	0.316 JB	0.0189	5.71	1
11031	OCDD	3268-87-9	1.22 JB	0.0272	11.4	1
11031	2378-TCDF	51207-31-9	0.0173 J	0.0160	1.14	1
11031	12378-PeCDF	57117-41-6	0.00793 U	0.00793	5.71	1
11031	23478-PeCDF	57117-31-4	0.0703 JB	0.00864	5.71	1
11031	123478-HxCDF	70648-26-9	0.0477 JBQ	0.0112	5.71	1
11031	123678-HxCDF	57117-44-9	0.0386 JBQ	0.00970	5.71	1
11031	123789-HxCDF	72918-21-9	0.0135 U	0.0135	5.71	1
11031	234678-HxCDF	60851-34-5	0.0817 JB	0.0105	5.71	1
11031	1234678-HpCDF	67562-39-4	0.185 JB	0.00805	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0556 JBQ	0.0138	5.71	1
11031	OCDF	39001-02-0	0.214 JBQ	0.0264	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267486
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7705 SDG#: DX077-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267486
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7705 SDG#: DX077-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 02:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267487
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7706 SDG#: DX077-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267487
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7706 SDG#: DX077-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0174 U	0.0174	1.12	1
11031	12378-PeCDD	40321-76-4	0.0782 JBQ	0.0170	5.59	1
11031	123478-HxCDD	39227-28-6	0.0601 JBQ	0.0135	5.59	1
11031	123678-HxCDD	57653-85-7	0.0710 JBQ	0.0138	5.59	1
11031	123789-HxCDD	19408-74-3	0.0728 JB	0.0135	5.59	1
11031	1234678-HpCDD	35822-46-9	0.285 JB	0.0218	5.59	1
11031	OCDD	3268-87-9	0.929 JBQ	0.0309	11.2	1
11031	2378-TCDF	51207-31-9	0.0191 JQ	0.0148	1.12	1
11031	12378-PeCDF	57117-41-6	0.0789 JBQ	0.00891	5.59	1
11031	23478-PeCDF	57117-31-4	0.138 JB	0.00914	5.59	1
11031	123478-HxCDF	70648-26-9	0.123 JBQ	0.0156	5.59	1
11031	123678-HxCDF	57117-44-9	0.105 JB	0.0140	5.59	1
11031	123789-HxCDF	72918-21-9	0.0838 JBQ	0.0171	5.59	1
11031	234678-HxCDF	60851-34-5	0.127 JB	0.0144	5.59	1
11031	1234678-HpCDF	67562-39-4	0.263 JB	0.0103	5.59	1
11031	1234789-HpCDF	55673-89-7	0.0646 JBQ	0.0158	5.59	1
11031	OCDF	39001-02-0	0.260 JB	0.0314	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267487
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7706 SDG#: DX077-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-011-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267487
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7706 SDG#: DX077-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 03:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-064-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267488
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7707 SDG#: DX077-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-064-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267488
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7707 SDG#: DX077-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0527	JB	0.0123	1.09	1
11031	12378-PeCDD	40321-76-4	0.238	JB	0.0142	5.44	1
11031	123478-HxCDD	39227-28-6	0.119	JB	0.0164	5.44	1
11031	123678-HxCDD	57653-85-7	0.144	JB	0.0168	5.44	1
11031	123789-HxCDD	19408-74-3	0.152	JB	0.0159	5.44	1
11031	1234678-HpCDD	35822-46-9	0.547	JB	0.0213	5.44	1
11031	OCDD	3268-87-9	3.90	JB	0.0180	10.9	1
11031	2378-TCDF	51207-31-9	0.0441	J	0.0114	1.09	1
11031	12378-PeCDF	57117-41-6	0.234	JB	0.00830	5.44	1
11031	23478-PeCDF	57117-31-4	0.252	JB	0.00886	5.44	1
11031	123478-HxCDF	70648-26-9	0.217	JB	0.0197	5.44	1
11031	123678-HxCDF	57117-44-9	0.186	JB	0.0165	5.44	1
11031	123789-HxCDF	72918-21-9	0.200	JB	0.0211	5.44	1
11031	234678-HxCDF	60851-34-5	0.201	JB	0.0180	5.44	1
11031	1234678-HpCDF	67562-39-4	0.350	JB	0.0102	5.44	1
11031	1234789-HpCDF	55673-89-7	0.101	JB	0.0182	5.44	1
11031	OCDF	39001-02-0	0.365	JB	0.0211	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-064-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267488
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7707 SDG#: DX077-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-064-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267488
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7707 SDG#: DX077-07BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 04:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-064-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267489
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7707 SDG#: DX077-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-064-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267489
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7707 SDG#: DX077-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.4	B	0.0252	1.11	1
11031	12378-PeCDD	40321-76-4	106	B	0.0343	5.56	1
11031	123478-HxCDD	39227-28-6	107	B	0.0592	5.56	1
11031	123678-HxCDD	57653-85-7	108	B	0.0589	5.56	1
11031	123789-HxCDD	19408-74-3	106	B	0.0582	5.56	1
11031	1234678-HpCDD	35822-46-9	106	B	0.0613	5.56	1
11031	OCDD	3268-87-9	215	B	0.0558	11.1	1
11031	2378-TCDF	51207-31-9	22.0		0.0385	1.11	1
11031	12378-PeCDF	57117-41-6	105	B	0.0296	5.56	1
11031	23478-PeCDF	57117-31-4	105	B	0.0308	5.56	1
11031	123478-HxCDF	70648-26-9	107	B	0.0746	5.56	1
11031	123678-HxCDF	57117-44-9	106	B	0.0651	5.56	1
11031	123789-HxCDF	72918-21-9	106	B	0.0869	5.56	1
11031	234678-HxCDF	60851-34-5	108	B	0.0709	5.56	1
11031	1234678-HpCDF	67562-39-4	105	B	0.0399	5.56	1
11031	1234789-HpCDF	55673-89-7	108	B	0.0635	5.56	1
11031	OCDF	39001-02-0	216	B	0.0518	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-064-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267489
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7707 SDG#: DX077-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-064-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267489
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7707 SDG#: DX077-07MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 04:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-064-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267490
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7707 SDG#: DX077-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-064-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267490
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X7707 SDG#: DX077-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.6	B	0.0277	1.11	1
11031	12378-PeCDD	40321-76-4	107	B	0.0283	5.56	1
11031	123478-HxCDD	39227-28-6	106	B	0.0545	5.56	1
11031	123678-HxCDD	57653-85-7	105	B	0.0580	5.56	1
11031	123789-HxCDD	19408-74-3	104	B	0.0552	5.56	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0684	5.56	1
11031	OCDD	3268-87-9	214	B	0.0518	11.1	1
11031	2378-TCDF	51207-31-9	21.7		0.0322	1.11	1
11031	12378-PeCDF	57117-41-6	102	B	0.0205	5.56	1
11031	23478-PeCDF	57117-31-4	104	B	0.0216	5.56	1
11031	123478-HxCDF	70648-26-9	106	B	0.0552	5.56	1
11031	123678-HxCDF	57117-44-9	105	B	0.0479	5.56	1
11031	123789-HxCDF	72918-21-9	106	B	0.0595	5.56	1
11031	234678-HxCDF	60851-34-5	107	B	0.0509	5.56	1
11031	1234678-HpCDF	67562-39-4	105	B	0.0362	5.56	1
11031	1234789-HpCDF	55673-89-7	106	B	0.0613	5.56	1
11031	OCDF	39001-02-0	216	B	0.0672	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-064-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267490
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7707 SDG#: DX077-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-064-SA5A-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267490
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7707 SDG#: DX077-07MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 08:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-166-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267491
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7708 SDG#: DX077-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-166-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267491
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X7708 SDG#: DX077-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.131	JB	0.0193	1.01	1
11031	12378-PeCDD	40321-76-4	0.311	JB	0.0229	5.05	1
11031	123478-HxCDD	39227-28-6	0.135	JBQ	0.0294	5.05	1
11031	123678-HxCDD	57653-85-7	0.203	JB	0.0298	5.05	1
11031	123789-HxCDD	19408-74-3	0.251	JB	0.0289	5.05	1
11031	1234678-HpCDD	35822-46-9	0.439	JB	0.0445	5.05	1
11031	OCDD	3268-87-9	2.28	JB	0.0431	10.1	1
11031	2378-TCDF	51207-31-9	0.0875	J	0.0143	1.01	1
11031	12378-PeCDF	57117-41-6	0.339	JB	0.0117	5.05	1
11031	23478-PeCDF	57117-31-4	0.321	JB	0.0127	5.05	1
11031	123478-HxCDF	70648-26-9	0.253	JB	0.0267	5.05	1
11031	123678-HxCDF	57117-44-9	0.256	JB	0.0235	5.05	1
11031	123789-HxCDF	72918-21-9	0.356	JB	0.0284	5.05	1
11031	234678-HxCDF	60851-34-5	0.204	JB	0.0246	5.05	1
11031	1234678-HpCDF	67562-39-4	0.267	JB	0.0174	5.05	1
11031	1234789-HpCDF	55673-89-7	0.166	JB	0.0314	5.05	1
11031	OCDF	39001-02-0	0.375	JB	0.0487	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	54	25 - 164
13C12-12378-PeCDD	53	25 - 181
13C12-123478-HxCDD	55	32 - 141
13C12-123678-HxCDD	56	28 - 130
13C12-123789-HxCDD	56	28 - 130
13C12-1234678-HpCDD	56	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	48	24 - 169
13C12-12378-PeCDF	54	24 - 185
13C12-23478-PeCDF	46	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	47	28 - 136
13C12-123789-HxCDF	46	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	42	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	60	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-166-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267491
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7708 SDG#: DX077-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-166-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267491
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7708 SDG#: DX077-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 09:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267492
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7709 SDG#: DX077-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-253-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267492
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7709 SDG#: DX077-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0454	JBQ	0.0189	1.15	1
11031	12378-PeCDD	40321-76-4	0.226	JB	0.0262	5.76	1
11031	123478-HxCDD	39227-28-6	0.320	JB	0.0631	5.76	1
11031	123678-HxCDD	57653-85-7	0.696	JB	0.0652	5.76	1
11031	123789-HxCDD	19408-74-3	0.500	JB	0.0615	5.76	1
11031	1234678-HpCDD	35822-46-9	18.4	B	0.0843	5.76	1
11031	OCDD	3268-87-9	217	B	0.0652	11.5	1
11031	2378-TCDF	51207-31-9	0.0282	U	0.0282	1.15	1
11031	12378-PeCDF	57117-41-6	0.237	JBQ	0.0142	5.76	1
11031	23478-PeCDF	57117-31-4	0.299	JB	0.0160	5.76	1
11031	123478-HxCDF	70648-26-9	0.406	JB	0.0456	5.76	1
11031	123678-HxCDF	57117-44-9	0.301	JB	0.0387	5.76	1
11031	123789-HxCDF	72918-21-9	0.225	JBQ	0.0558	5.76	1
11031	234678-HxCDF	60851-34-5	0.422	JB	0.0432	5.76	1
11031	1234678-HpCDF	67562-39-4	4.82	JB	0.0289	5.76	1
11031	1234789-HpCDF	55673-89-7	0.423	JB	0.0555	5.76	1
11031	OCDF	39001-02-0	14.6	B	0.0647	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	59	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	60	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	58	24 - 185
13C12-23478-PeCDF	49	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	52	28 - 136
13C12-123789-HxCDF	45	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	65	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267492
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7709 SDG#: DX077-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267492
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7709 SDG#: DX077-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 10:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267493
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7710 SDG#: DX077-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-253-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267493
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7710 SDG#: DX077-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0148	U	0.0148	1.11	1
11031	12378-PeCDD	40321-76-4	0.0135	U	0.0135	5.55	1
11031	123478-HxCDD	39227-28-6	0.0113	U	0.0113	5.55	1
11031	123678-HxCDD	57653-85-7	0.0351	JB	0.0121	5.55	1
11031	123789-HxCDD	19408-74-3	0.0355	JB	0.0113	5.55	1
11031	1234678-HpCDD	35822-46-9	0.272	JB	0.0199	5.55	1
11031	OCDD	3268-87-9	0.921	JBQ	0.0312	11.1	1
11031	2378-TCDF	51207-31-9	0.0111	U	0.0111	1.11	1
11031	12378-PeCDF	57117-41-6	0.0317	JBQ	0.00660	5.55	1
11031	23478-PeCDF	57117-31-4	0.0447	JB	0.00716	5.55	1
11031	123478-HxCDF	70648-26-9	0.0525	JB	0.00951	5.55	1
11031	123678-HxCDF	57117-44-9	0.0322	JB	0.00794	5.55	1
11031	123789-HxCDF	72918-21-9	0.0304	JBQ	0.0105	5.55	1
11031	234678-HxCDF	60851-34-5	0.0629	JB	0.00861	5.55	1
11031	1234678-HpCDF	67562-39-4	0.145	JB	0.00906	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0477	JBQ	0.0170	5.55	1
11031	OCDF	39001-02-0	0.196	JB	0.0295	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267493
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7710 SDG#: DX077-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267493
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7710 SDG#: DX077-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 11:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP16-SA5A-QC-042211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267494
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7711 SDG#: DX077-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP16-SA5A-QC-042211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267494
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7711 SDG#: DX077-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0267 JBQ	0.0171	1.10	1
11031	12378-PeCDD	40321-76-4	0.0219 JBQ	0.0172	5.48	1
11031	123478-HxCDD	39227-28-6	0.0145 U	0.0145	5.48	1
11031	123678-HxCDD	57653-85-7	0.0419 JB	0.0150	5.48	1
11031	123789-HxCDD	19408-74-3	0.0614 JB	0.0147	5.48	1
11031	1234678-HpCDD	35822-46-9	0.433 JBQ	0.0248	5.48	1
11031	OCDD	3268-87-9	2.65 JB	0.0365	11.0	1
11031	2378-TCDF	51207-31-9	0.0149 U	0.0149	1.10	1
11031	12378-PeCDF	57117-41-6	0.0338 JBQ	0.00917	5.48	1
11031	23478-PeCDF	57117-31-4	0.0695 JBQ	0.0101	5.48	1
11031	123478-HxCDF	70648-26-9	0.0468 JB	0.0116	5.48	1
11031	123678-HxCDF	57117-44-9	0.0346 JBQ	0.00984	5.48	1
11031	123789-HxCDF	72918-21-9	0.0892 JB	0.0125	5.48	1
11031	234678-HxCDF	60851-34-5	0.0601 JBQ	0.0107	5.48	1
11031	1234678-HpCDF	67562-39-4	0.153 JB	0.0101	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0584 JBQ	0.0176	5.48	1
11031	OCDF	39001-02-0	0.249 JBQ	0.0271	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	55	25 - 164
13C12-12378-PeCDD	57	25 - 181
13C12-123478-HxCDD	62	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	61	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	47	24 - 169
13C12-12378-PeCDF	55	24 - 185
13C12-23478-PeCDF	47	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	51	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	64	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP16-SA5A-QC-042211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267494
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7711 SDG#: DX077-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP16-SA5A-QC-042211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267494
LLI Group # 1243644
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/13/2011 12:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7711 SDG#: DX077-11FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 12:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243644
Reported: 05/13/11 at 12:45 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11123162401A	Sample number(s): 6267482-6267483,6267488-6267494								
Moisture Content by 160.3					100		80-120		
Batch number: 11125162401A	Sample number(s): 6267484-6267487								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11125001	Sample number(s): 6267482-6267494								
2378-TCDD	0.0302 J	0.0160	1.00	ng/kg	94		67-158		
12378-PeCDD	0.0388 J	0.0140	5.00	ng/kg	98		70-142		
123478-HxCDD	0.0157 J	0.0134	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0351 J	0.0142	5.00	ng/kg	97		76-134		
123789-HxCDD	0.0315 J	0.0135	5.00	ng/kg	94		64-162		
1234678-HpCDD	0.205 J	0.0213	5.00	ng/kg	97		70-140		
OCDD	0.439 J	0.0212	10.0	ng/kg	96		78-144		
2378-TCDF	0.0137 U	0.0137	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0393 J	0.00790	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0837 J	0.00840	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0841 J	0.0151	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0651 J	0.0123	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0834 J	0.0172	5.00	ng/kg	96		78-130		
234678-HxCDF	0.104 J	0.0140	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.236 J	0.00990	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0899 J	0.0209	5.00	ng/kg	98		78-138		
OCDF	0.285 J	0.0397	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11123162401A	Sample number(s): 6267482-6267483,6267488-6267494					BKG: P267473			
Moisture Content by 160.3						10.8	11.0	2	20
Batch number: 11125162401A	Sample number(s): 6267484-6267487					BKG: P264819			
Moisture Content by 160.3						6.1	6.9	13	20
Batch number: 11125001	Sample number(s): 6267482-6267494					UNSPK: 6267488			
2378-TCDD	92	92	67-158	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243644
Reported: 05/13/11 at 12:45 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	95	96	70-142	1	25				
123478-HxCDD	96	95	70-164	1	25				
123678-HxCDD	97	94	76-134	3	25				
123789-HxCDD	95	94	64-162	1	25				
1234678-HpCDD	94	94	70-140	0	25				
OCDD	95	95	78-144	1	25				
2378-TCDF	99	98	75-158	1	25				
12378-PeCDF	94	92	80-134	3	25				
23478-PeCDF	95	93	68-160	1	25				
123478-HxCDF	96	95	72-134	1	25				
123678-HxCDF	95	94	84-130	1	25				
123789-HxCDF	95	95	78-130	0	25				
234678-HxCDF	97	96	70-156	1	25				
1234678-HpCDF	94	95	82-122	0	25				
1234789-HpCDF	97	95	78-138	2	25				
OCDF	97	97	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11125001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6267482	61	62	64	71	66	61
6267483	63	59	58	65	61	58
6267484	67	64	65	72	68	61
6267485	61	62	64	69	67	64
6267486	64	59	59	68	62	54
6267487	74	68	73	81	76	70
6267488	70	66	66	75	69	65
6267489	67	64	67	75	68	62
6267490	66	61	65	72	67	67
6267491	54	46	46	53	47	46
6267492	59	49	51	60	52	45
6267493	63	60	58	69	63	59
6267494	55	47	49	56	51	50
Blank	66	63	64	77	68	61
MS	67	64	67	75	68	62
MSD	66	61	65	72	67	67
OPR	48	43	45	50	46	43
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6267482	82	59	54	72	68	73

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243644
Reported: 05/13/11 at 12:45 PM

Surrogate Quality Control

6267483	73	56	54	73	65	69
6267484	80	61	57	75	71	76
6267485	79	61	56	75	67	74
6267486	77	52	48	76	67	73
6267487	87	64	57	88	74	84
6267488	91	61	60	81	75	80
6267489	86	61	58	76	70	77
6267490	85	58	52	75	68	77
6267491	63	42	39	60	53	55
6267492	71	43	39	65	59	64
6267493	83	53	46	76	68	75
6267494	68	46	43	64	57	62
Blank	101	55	49	89	73	81
MS	86	61	58	76	70	77
MSD	85	58	52	75	68	77
OPR	58	42	39	59	47	53
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6267482	74	74	73	70	55	67
6267483	66	68	68	66	59	65
6267484	76	76	74	71	60	69
6267485	72	73	74	70	56	66
6267486	70	72	68	62	56	66
6267487	85	84	79	71	68	74
6267488	80	81	81	79	62	74
6267489	75	75	76	75	63	70
6267490	74	76	74	70	59	68
6267491	56	56	56	53	48	54
6267492	65	65	60	57	50	58
6267493	74	75	72	66	57	69
6267494	61	61	61	59	47	55
Blank	81	81	82	79	57	70
MS	75	75	76	75	63	70
MSD	74	76	74	70	59	68
OPR	51	53	51	50	43	46
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1243644 Sample#6267482-94

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-007-SA8N-SB-4.5	04.22.11	0930	SOIL	NONE	4-Encores										X	X											
SL-007-SA8N-SB-4.0-5.0	04.22.11	0933	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-007-SA8N-SB-9.0-10.0	04.22.11	0945	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-010-SA8N-SB-4.5	04.22.11	1107	SOIL	NONE	5-Encores										X	X	X										
SL-010-SA8N-SB-4.0-5.0	04.22.11	1110	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-010-SA8N-SB-9.5	04.22.11	1125	SOIL	NONE	5-Encores										X	X	X										
SL-010-SA8N-SB-9.0-10.0	04.22.11	1120	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-011-SA8N-SB-4.5	04.22.11	1250	SOIL	NONE	5-Encores										X	X	X										
SL-011-SA8N-SB-4.0-5.0	04.22.11	1252	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-011-SA8N-SB-9.5	04.22.11	1210	SOIL	NONE	5-Encores										X	X	X										
SL-011-SA8N-SB-9.0-10.0	04.22.11	1212	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-064-SA5A-SB-3.5MS	04.22.11	1110	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-064-SA5A-SB-3.0-4.0MS	04.22.11	1110	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X	X														MS/MSD
SL-166-SA5A-SS-0.0-0.5	04.22.11	1345	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-166-SA5A-SS-0.0-0.5	04.22.11	1345	SOIL	NONE	1-Sleave										X	X											
SL-253-SA5A-SB-4.5	04.22.11	1535	SOIL	NONE	4-Encores										X	X											
SL-253-SA5A-SB-4.0-5.0	04.22.11	1530	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-253-SA5A-SB-8.0-9.0	04.22.11	1605	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
DUP16-SA5A-QC-042211	04.22.11	1115	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
DUP16-SA5A-QC-042211	04.22.11	1115	SOIL	NONE	4-Encores										X	X											
TB-042211	04.22.11	0800	WATER	NONE	4-40 mL vials										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/22/2011 / 1700	Tammy Helal 4/23/11 0900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1442 0188, 8700 5932 3021	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/26/2011
Group Number: 1243765
SDG: DX073
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-036-SA8N-SB-4.0-5.0 Soil	6268208
SL-036-SA8N-SB-9.0-10.0 Soil	6268209

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-4.0-5.0

LLI Sample # SW 6268208
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:14

Submitted: 04/26/2011 08:50
Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0364 SDG#: DX073-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-4.0-5.0

LLI Sample # SW 6268208
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Account # 13013

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0364 SDG#: DX073-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0560 JBQ	0.0189	1.17	1
11031	12378-PeCDD	40321-76-4	0.111 JBQ	0.0205	5.85	1
11031	123478-HxCDD	39227-28-6	0.0454 JBQ	0.0181	5.85	1
11031	123678-HxCDD	57653-85-7	0.123 JB	0.0185	5.85	1
11031	123789-HxCDD	19408-74-3	0.249 JB	0.0176	5.85	1
11031	1234678-HpCDD	35822-46-9	0.289 JB	0.0234	5.85	1
11031	OCDD	3268-87-9	1.25 JB	0.0368	11.7	1
11031	2378-TCDF	51207-31-9	0.0147 U	0.0147	1.17	1
11031	12378-PeCDF	57117-41-6	0.177 JB	0.0101	5.85	1
11031	23478-PeCDF	57117-31-4	0.124 JB	0.00953	5.85	1
11031	123478-HxCDF	70648-26-9	0.0718 JBQ	0.0133	5.85	1
11031	123678-HxCDF	57117-44-9	0.0796 JB	0.0122	5.85	1
11031	123789-HxCDF	72918-21-9	0.297 JB	0.0153	5.85	1
11031	234678-HxCDF	60851-34-5	0.0532 JB	0.0124	5.85	1
11031	1234678-HpCDF	67562-39-4	0.142 JB	0.0146	5.85	1
11031	1234789-HpCDF	55673-89-7	0.0604 JBQ	0.0221	5.85	1
11031	OCDF	39001-02-0	0.172 JBQ	0.0286	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-036-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-4.0-5.0

LLI Sample # SW 6268208
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:14

Submitted: 04/26/2011 08:50
Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0364 SDG#: DX073-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-4.0-5.0

LLI Sample # SW 6268208
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:14

Submitted: 04/26/2011 08:50
Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0364 SDG#: DX073-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/30/2011 02:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268209
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

Submitted: 04/26/2011 08:50
Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0369 SDG#: DX073-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	19.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268209
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

Submitted: 04/26/2011 08:50
Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0369 SDG#: DX073-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0178 U	0.0178	1.22	1
11031	12378-PeCDD	40321-76-4	0.0621 JBQ	0.0158	6.10	1
11031	123478-HxCDD	39227-28-6	0.0198 JB	0.0139	6.10	1
11031	123678-HxCDD	57653-85-7	0.0288 JBQ	0.0140	6.10	1
11031	123789-HxCDD	19408-74-3	0.0335 JBQ	0.0134	6.10	1
11031	1234678-HpCDD	35822-46-9	0.291 JB	0.0271	6.10	1
11031	OCDD	3268-87-9	1.41 JB	0.0334	12.2	1
11031	2378-TCDF	51207-31-9	0.0157 U	0.0157	1.22	1
11031	12378-PeCDF	57117-41-6	0.0641 JBQ	0.00807	6.10	1
11031	23478-PeCDF	57117-31-4	0.0759 JB	0.00807	6.10	1
11031	123478-HxCDF	70648-26-9	0.0326 JBQ	0.00894	6.10	1
11031	123678-HxCDF	57117-44-9	0.0457 JB	0.00807	6.10	1
11031	123789-HxCDF	72918-21-9	0.0288 JB	0.0108	6.10	1
11031	234678-HxCDF	60851-34-5	0.0336 JBQ	0.00845	6.10	1
11031	1234678-HpCDF	67562-39-4	0.0910 JB	0.00969	6.10	1
11031	1234789-HpCDF	55673-89-7	0.0222 JBQ	0.0173	6.10	1
11031	OCDF	39001-02-0	0.194 JB	0.0297	12.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	53	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	49	24 - 169
13C12-12378-PeCDF	59	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268209
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

Submitted: 04/26/2011 08:50
Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0369 SDG#: DX073-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268209
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

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Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0369 SDG#: DX073-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/30/2011 03:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243765
Reported: 05/09/11 at 08:43 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11123162401B	Sample number(s): 6268208-6268209								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11117001	Sample number(s): 6268208-6268209								
2378-TCDD	0.0430 J	0.0175	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0524 J	0.0149	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0460 J	0.0135	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0426 J	0.0142	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0546 J	0.0135	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.222 J	0.0201	5.00	ng/kg	102		70-140		
OCDD	0.573 J	0.0258	10.0	ng/kg	102		78-144		
2378-TCDF	0.0189 J	0.0133	1.00	ng/kg	110		75-158		
12378-PeCDF	0.0492 J	0.00870	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0795 J	0.00870	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0592 J	0.0101	5.00	ng/kg	105		72-134		
123678-HxCDF	0.0417 J	0.00940	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0964 J	0.0126	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0597 J	0.0103	5.00	ng/kg	104		70-156		
1234678-HpCDF	0.145 J	0.00850	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.108 J	0.0127	5.00	ng/kg	103		78-138		
OCDF	0.266 J	0.0247	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11123162401B	Sample number(s): 6268208-6268209					BKG: P268204			
Moisture Content by 160.3						15.0	14.9	1	20
Batch number: 11117001	Sample number(s): 6268208-6268209					UNSPK: P262856			
2378-TCDD	98	96	67-158	3	25				
12378-PeCDD	104	102	70-142	2	25				
123478-HxCDD	105	106	70-164	0	25				
123678-HxCDD	104	104	76-134	1	25				
123789-HxCDD	103	102	64-162	2	25				
1234678-HpCDD	103	102	70-140	2	25				
OCDD	103	105	78-144	0	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243765
Reported: 05/09/11 at 08:43 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	107	109	75-158	1	25				
12378-PeCDF	102	103	80-134	0	25				
23478-PeCDF	104	103	68-160	2	25				
123478-HxCDF	104	104	72-134	1	25				
123678-HxCDF	104	103	84-130	1	25				
123789-HxCDF	103	103	78-130	1	25				
234678-HxCDF	105	105	70-156	1	25				
1234678-HpCDF	104	104	82-122	1	25				
1234789-HpCDF	105	105	78-138	0	25				
OCDF	105	105	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11117001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6268208	60	62	65	68	65	60
6268209	53	58	60	66	62	56
Blank	66	64	69	75	69	63
MS	73	71	71	76	71	66
MSD	80	79	79	85	80	72
OPR	64	66	70	77	73	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6268208	74	55	49	81	66	69
6268209	74	50	42	81	62	66
Blank	83	62	60	88	69	74
MS	85	61	57	84	76	77
MSD	93	67	62	93	84	84
OPR	86	63	59	88	73	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6268208	68	70	65	60	55	63
6268209	68	68	64	57	49	59
Blank	75	74	73	69	59	68
MS	74	77	72	66	66	75
MSD	85	86	79	71	74	83
OPR	78	79	75	70	59	70

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243765
Reported: 05/09/11 at 08:43 AM

Surrogate Quality Control

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1243765 6268208-09

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Pam																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-036-SA8N-SB-4.5	04.25.11	1111	SOIL	NONE	5 Encores ~~Encores~~										X	X	X										
SL-036-SA8N-SB-4.0-5.0	04.25.11	1114	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-036-SA8N-SB-9.0-10.0	04.25.11	1118	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-036-SA8N-SB-9.5	04.25.11	1125	SOIL	NONE	1-Encore												X										
TB-042511	04.25.11	0800	WATER	NONE	4-40 mL vials										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/25/2011 / 1700		Received for Laboratory by: (Signature) Gary Yarlett 4/26/11 850																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No(s) 8695 1441 6472																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/27/2011
Group Number: 1244037
SDG: DX073
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-027-SA8N-SB-4.0-5.0 Soil	6269641
SL-027-SA8N-SB-9.0-10.0 Soil	6269642
SL-028-SA8N-SB-4.0-5.0 Soil	6269643
SL-028-SA8N-SB-9.0-10.0 Soil	6269644

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269641
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7311 SDG#: DX073-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269641
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7311 SDG#: DX073-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0252 JBQ	0.0152	1.15	1
11031	12378-PeCDD	40321-76-4	0.0774 JBQ	0.0151	5.74	1
11031	123478-HxCDD	39227-28-6	0.0454 JB	0.0134	5.74	1
11031	123678-HxCDD	57653-85-7	0.0482 JBQ	0.0141	5.74	1
11031	123789-HxCDD	19408-74-3	0.0734 JBQ	0.0131	5.74	1
11031	1234678-HpCDD	35822-46-9	0.242 JB	0.0178	5.74	1
11031	OCDD	3268-87-9	0.657 JB	0.0256	11.5	1
11031	2378-TCDF	51207-31-9	0.0119 U	0.0119	1.15	1
11031	12378-PeCDF	57117-41-6	0.0788 JB	0.00776	5.74	1
11031	23478-PeCDF	57117-31-4	0.0982 JBQ	0.00765	5.74	1
11031	123478-HxCDF	70648-26-9	0.0712 JB	0.0116	5.74	1
11031	123678-HxCDF	57117-44-9	0.0640 JB	0.0107	5.74	1
11031	123789-HxCDF	72918-21-9	0.132 JBQ	0.0121	5.74	1
11031	234678-HxCDF	60851-34-5	0.0731 JBQ	0.0109	5.74	1
11031	1234678-HpCDF	67562-39-4	0.0976 JB	0.00962	5.74	1
11031	1234789-HpCDF	55673-89-7	0.128 JBQ	0.0146	5.74	1
11031	OCDF	39001-02-0	0.219 JBQ	0.0212	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269641
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7311 SDG#: DX073-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269641
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7311 SDG#: DX073-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 11:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269642
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7312 SDG#: DX073-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269642
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7312 SDG#: DX073-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0149 U	0.0149	1.14	1
11031	12378-PeCDD	40321-76-4	0.0567 JB	0.0145	5.69	1
11031	123478-HxCDD	39227-28-6	0.0324 JBQ	0.0155	5.69	1
11031	123678-HxCDD	57653-85-7	0.0515 JB	0.0155	5.69	1
11031	123789-HxCDD	19408-74-3	0.0566 JB	0.0153	5.69	1
11031	1234678-HpCDD	35822-46-9	1.27 JB	0.0371	5.69	1
11031	OCDD	3268-87-9	16.2 B	0.0257	11.4	1
11031	2378-TCDF	51207-31-9	0.0188 J	0.0122	1.14	1
11031	12378-PeCDF	57117-41-6	0.0589 JB	0.00731	5.69	1
11031	23478-PeCDF	57117-31-4	0.0655 JBQ	0.00766	5.69	1
11031	123478-HxCDF	70648-26-9	0.0563 JBQ	0.00949	5.69	1
11031	123678-HxCDF	57117-44-9	0.0373 JB	0.00800	5.69	1
11031	123789-HxCDF	72918-21-9	0.0479 JB	0.00983	5.69	1
11031	234678-HxCDF	60851-34-5	0.0336 JBQ	0.00857	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0938 JBQ	0.0136	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0526 JBQ	0.0219	5.69	1
11031	OCDF	39001-02-0	0.257 JBQ	0.0360	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269642
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7312 SDG#: DX073-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269642
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7312 SDG#: DX073-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 12:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269643
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7313 SDG#: DX073-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-028-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269643
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7313 SDG#: DX073-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0151 U	0.0151	1.16	1
11031	12378-PeCDD	40321-76-4	0.0693 JB	0.0151	5.80	1
11031	123478-HxCDD	39227-28-6	0.0362 JBQ	0.0124	5.80	1
11031	123678-HxCDD	57653-85-7	0.0524 JB	0.0128	5.80	1
11031	123789-HxCDD	19408-74-3	0.0474 JB	0.0122	5.80	1
11031	1234678-HpCDD	35822-46-9	0.215 JB	0.0169	5.80	1
11031	OCDD	3268-87-9	0.571 JB	0.0275	11.6	1
11031	2378-TCDF	51207-31-9	0.0203 JQ	0.0124	1.16	1
11031	12378-PeCDF	57117-41-6	0.0783 JBQ	0.00694	5.80	1
11031	23478-PeCDF	57117-31-4	0.105 JBQ	0.00694	5.80	1
11031	123478-HxCDF	70648-26-9	0.0471 JB	0.00859	5.80	1
11031	123678-HxCDF	57117-44-9	0.0532 JB	0.00765	5.80	1
11031	123789-HxCDF	72918-21-9	0.0516 JB	0.00894	5.80	1
11031	234678-HxCDF	60851-34-5	0.0549 JB	0.00788	5.80	1
11031	1234678-HpCDF	67562-39-4	0.0681 JB	0.00776	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0545 JBQ	0.0124	5.80	1
11031	OCDF	39001-02-0	0.115 JBQ	0.0279	11.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-028-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269643
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7313 SDG#: DX073-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269643
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7313 SDG#: DX073-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 13:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269644
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7314 SDG#: DX073-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-028-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269644
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7314 SDG#: DX073-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0159 JBQ	0.0152	1.10	1
11031	12378-PeCDD	40321-76-4	0.0485 JBQ	0.0152	5.51	1
11031	123478-HxCDD	39227-28-6	0.0223 JBQ	0.0131	5.51	1
11031	123678-HxCDD	57653-85-7	0.0213 JBQ	0.0135	5.51	1
11031	123789-HxCDD	19408-74-3	0.0428 JB	0.0133	5.51	1
11031	1234678-HpCDD	35822-46-9	0.259 JBQ	0.0195	5.51	1
11031	OCDD	3268-87-9	1.31 JB	0.0310	11.0	1
11031	2378-TCDF	51207-31-9	0.0244 J	0.0154	1.10	1
11031	12378-PeCDF	57117-41-6	0.0599 JBQ	0.00701	5.51	1
11031	23478-PeCDF	57117-31-4	0.0817 JB	0.00723	5.51	1
11031	123478-HxCDF	70648-26-9	0.0435 JBQ	0.00801	5.51	1
11031	123678-HxCDF	57117-44-9	0.0249 JBQ	0.00734	5.51	1
11031	123789-HxCDF	72918-21-9	0.0392 JBQ	0.00823	5.51	1
11031	234678-HxCDF	60851-34-5	0.0327 JB	0.00779	5.51	1
11031	1234678-HpCDF	67562-39-4	0.0533 JBQ	0.00779	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0329 JBQ	0.0113	5.51	1
11031	OCDF	39001-02-0	0.121 JB	0.0189	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-028-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269644
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7314 SDG#: DX073-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269644
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7314 SDG#: DX073-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 14:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244037
Reported: 05/09/11 at 11:24 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11123162401B	Sample number(s): 6269641-6269644								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11122003	Sample number(s): 6269641-6269644								
2378-TCDD	0.0183 J	0.0119	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0512 J	0.0113	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0242 J	0.0124	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0426 J	0.0129	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0398 J	0.0123	5.00	ng/kg	103		64-162		
1234678-HpCDD	0.173 J	0.0178	5.00	ng/kg	101		70-140		
OCDD	0.359 J	0.0192	10.0	ng/kg	102		78-144		
2378-TCDF	0.0143 U	0.0143	1.00	ng/kg	106		75-158		
12378-PeCDF	0.0563 J	0.00680	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0781 J	0.00650	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0612 J	0.00920	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0458 J	0.00780	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0821 J	0.00970	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0520 J	0.00820	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.0881 J	0.00860	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0487 J	0.0126	5.00	ng/kg	103		78-138		
OCDF	0.148 J	0.0212	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11123162401B	Sample number(s): 6269641-6269644 BKG: P268204								
Moisture Content by 160.3						15.0	14.9	1	20
Batch number: 11122003	Sample number(s): 6269641-6269644 UNSPK: P259105								
2378-TCDD	98	98	67-158	1	25				
12378-PeCDD	101	102	70-142	1	25				
123478-HxCDD	103	103	70-164	1	25				
123678-HxCDD	102	102	76-134	1	25				
123789-HxCDD	101	100	64-162	0	25				
1234678-HpCDD	102	100	70-140	1	25				
OCDD	100	97	78-144	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244037
Reported: 05/09/11 at 11:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	104	105	75-158	2	25				
12378-PeCDF	100	101	80-134	1	25				
23478-PeCDF	101	103	68-160	2	25				
123478-HxCDF	102	103	72-134	0	25				
123678-HxCDF	101	100	84-130	1	25				
123789-HxCDF	100	101	78-130	1	25				
234678-HxCDF	103	102	70-156	1	25				
1234678-HpCDF	102	101	82-122	1	25				
1234789-HpCDF	104	102	78-138	2	25				
OCDF	103	101	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11122003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6269641	72	69	71	76	73	74
6269642	76	73	72	80	75	74
6269643	73	69	70	75	74	71
6269644	74	71	74	80	75	78
Blank	81	80	80	87	85	82
MS	73	74	60	68	80	80
MSD	68	70	72	78	76	71
OPR	72	71	68	73	78	78
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6269641	86	67	62	83	74	79
6269642	89	65	60	83	77	82
6269643	83	60	44	83	73	78
6269644	88	69	63	85	73	80
Blank	98	78	75	97	85	93
MS	78	72	71	84	77	85
MSD	85	62	54	81	73	81
OPR	83	69	65	86	74	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6269641	80	80	78	74	68	75
6269642	81	81	78	74	70	80
6269643	78	78	76	69	67	74

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244037
Reported: 05/09/11 at 11:24 PM

Surrogate Quality Control

6269644	81	80	78	73	68	77
Blank	92	92	92	90	74	83
MS	86	85	81	79	70	78
MSD	80	80	77	73	65	74
OPR	82	85	81	75	67	74
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1244037 Sample# 6269641-44

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-027-SA8N-SB-4.5	04.26.11	1050	SOIL	NONE	5-Encores										X	X	X										
SL-027-SA8N-SB-4.0-5.0	04.26.11	1054	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-027-SA8N-SB-9.5	04.26.11	1058	SOIL	NONE	1-Encore												X										
SL-027-SA8N-SB-9.0-10.0	04.26.11	1101	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-028-SA8N-SB-4.5	04.26.11	1215	SOIL	NONE	5-Encores										X	X	X										
SL-028-SA8N-SB-4.0-5.0	04.26.11	1219	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-028-SA8N-SB-9.5	04.26.11	1224	SOIL	NONE	1-Encore												X										
SL-028-SA8N-SB-9.0-10.0	04.26.11	1228	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
TB-042611	04.26.11	0800	WATER	NONE	4-40 mL vials										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/26/2011 / 1700

Received for Laboratory by: (Signature) Kristi Leigh 4-27-11 0915

Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time

Airbill No.(s) 8695 1441 6483 [redacted]

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/28/2011
Group Number: 1244256
SDG: DX073
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-032-SA8N-SB-4.0-5.0 Soil	6270791
SL-032-SA8N-SB-9.0-10.0 Soil	6270792
FB07-SA8N-QC-042711 Water	6270793

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270791
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0324 SDG#: DX073-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270791
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0324 SDG#: DX073-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0213 JBQ	0.0152	1.18	1
11031	12378-PeCDD	40321-76-4	0.110 JB	0.0148	5.91	1
11031	123478-HxCDD	39227-28-6	0.0873 JBQ	0.0214	5.91	1
11031	123678-HxCDD	57653-85-7	0.196 JB	0.0223	5.91	1
11031	123789-HxCDD	19408-74-3	0.114 JBQ	0.0205	5.91	1
11031	1234678-HpCDD	35822-46-9	3.10 JB	0.0399	5.91	1
11031	OCDD	3268-87-9	22.9 B	0.0374	11.8	1
11031	2378-TCDF	51207-31-9	0.0172 JQ	0.0154	1.18	1
11031	12378-PeCDF	57117-41-6	0.101 JB	0.00806	5.91	1
11031	23478-PeCDF	57117-31-4	0.111 JB	0.00841	5.91	1
11031	123478-HxCDF	70648-26-9	0.103 JBQ	0.0200	5.91	1
11031	123678-HxCDF	57117-44-9	0.0877 JBQ	0.0171	5.91	1
11031	123789-HxCDF	72918-21-9	0.112 JB	0.0217	5.91	1
11031	234678-HxCDF	60851-34-5	0.102 JB	0.0188	5.91	1
11031	1234678-HpCDF	67562-39-4	0.539 JB	0.0209	5.91	1
11031	1234789-HpCDF	55673-89-7	0.0983 JB	0.0353	5.91	1
11031	OCDF	39001-02-0	1.21 JB	0.0390	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270791
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0324 SDG#: DX073-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-032-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270791
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0324 SDG#: DX073-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 20:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-032-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270792
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0329 SDG#: DX073-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270792
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0329 SDG#: DX073-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0449	JB	0.0197	1.19	1
11031	12378-PeCDD	40321-76-4	0.217	JBQ	0.0285	5.97	1
11031	123478-HxCDD	39227-28-6	0.149	JB	0.0397	5.97	1
11031	123678-HxCDD	57653-85-7	0.487	JB	0.0418	5.97	1
11031	123789-HxCDD	19408-74-3	0.243	JB	0.0387	5.97	1
11031	1234678-HpCDD	35822-46-9	9.77	B	0.0597	5.97	1
11031	OCDD	3268-87-9	67.8	B	0.0444	11.9	1
11031	2378-TCDF	51207-31-9	0.0386	JQ	0.0199	1.19	1
11031	12378-PeCDF	57117-41-6	0.323	JB	0.0116	5.97	1
11031	23478-PeCDF	57117-31-4	0.265	JB	0.0125	5.97	1
11031	123478-HxCDF	70648-26-9	0.161	JB	0.0384	5.97	1
11031	123678-HxCDF	57117-44-9	0.185	JB	0.0345	5.97	1
11031	123789-HxCDF	72918-21-9	0.142	JB	0.0418	5.97	1
11031	234678-HxCDF	60851-34-5	0.172	JBQ	0.0361	5.97	1
11031	1234678-HpCDF	67562-39-4	1.37	JB	0.0252	5.97	1
11031	1234789-HpCDF	55673-89-7	0.164	JB	0.0357	5.97	1
11031	OCDF	39001-02-0	3.30	JB	0.0353	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-032-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270792
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0329 SDG#: DX073-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-032-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270792
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0329 SDG#: DX073-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 21:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **FB07-SA8N-QC-042711 Water**
SSFL Area IV Collocated Soil Sampling
FB07-SA8N-QC-042711

LLI Sample # WW 6270793
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 13:30

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DFB07 SDG#: DX073-17FB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.198	U	0.198	2.13	1
10915	12378-PeCDD	40321-76-4	0.275	U	0.275	10.6	1
10915	123478-HxCDD	39227-28-6	0.242	U	0.242	10.6	1
10915	123678-HxCDD	57653-85-7	0.251	U	0.251	10.6	1
10915	123789-HxCDD	19408-74-3	0.423	JBQ	0.229	10.6	1
10915	1234678-HpCDD	35822-46-9	1.87	JBQ	0.284	10.6	1
10915	OCDD	3268-87-9	4.47	JB	0.435	21.3	1
10915	2378-TCDF	51207-31-9	0.184	U	0.184	2.13	1
10915	12378-PeCDF	57117-41-6	0.217	JBQ	0.134	10.6	1
10915	23478-PeCDF	57117-31-4	0.456	JB	0.127	10.6	1
10915	123478-HxCDF	70648-26-9	0.401	JBQ	0.158	10.6	1
10915	123678-HxCDF	57117-44-9	0.385	JBQ	0.152	10.6	1
10915	123789-HxCDF	72918-21-9	0.145	U	0.145	10.6	1
10915	234678-HxCDF	60851-34-5	0.515	JB	0.130	10.6	1
10915	1234678-HpCDF	67562-39-4	1.25	JB	0.147	10.6	1
10915	1234789-HpCDF	55673-89-7	0.498	JBQ	0.173	10.6	1
10915	OCDF	39001-02-0	1.29	JB	0.335	21.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **FB07-SA8N-QC-042711 Water**
SSFL Area IV Collocated Soil Sampling
FB07-SA8N-QC-042711

LLI Sample # WW 6270793
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 13:30

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DFB07 SDG#: DX073-17FB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122001	05/04/2011 19:20	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11122001	05/02/2011 08:30	Ginelle L Haines	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244256
Reported: 05/10/11 at 10:17 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11123162401B	Sample number(s): 6270791-6270792									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11122001	Sample number(s): 6270793									
2378-TCDD	0.371	J	0.287	2.00	pg/l	98		67-158		
12378-PeCDD	0.428	J	0.422	10.0	pg/l	102		70-142		
123478-HxCDD	0.811	J	0.480	10.0	pg/l	105		70-164		
123678-HxCDD	0.674	J	0.494	10.0	pg/l	106		76-134		
123789-HxCDD	1.07	J	0.479	10.0	pg/l	102		64-162		
1234678-HpCDD	4.37	J	0.749	10.0	pg/l	105		70-140		
OCDD	7.09	J	0.667	20.0	pg/l	109		78-144		
2378-TCDF	0.244	U	0.244	2.00	pg/l	99		75-158		
12378-PeCDF	0.992	J	0.184	10.0	pg/l	100		80-134		
23478-PeCDF	0.699	J	0.169	10.0	pg/l	100		68-160		
123478-HxCDF	0.812	J	0.228	10.0	pg/l	100		72-134		
123678-HxCDF	0.817	J	0.220	10.0	pg/l	103		84-130		
123789-HxCDF	0.969	J	0.250	10.0	pg/l	101		78-130		
234678-HxCDF	0.470	J	0.201	10.0	pg/l	100		70-156		
1234678-HpCDF	1.81	J	0.299	10.0	pg/l	106		82-122		
1234789-HpCDF	0.983	J	0.384	10.0	pg/l	108		78-138		
OCDF	2.65	J	0.776	20.0	pg/l	110		63-170		
Batch number: 11122003	Sample number(s): 6270791-6270792									
2378-TCDD	0.0183	J	0.0119	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0512	J	0.0113	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0242	J	0.0124	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0426	J	0.0129	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0398	J	0.0123	5.00	ng/kg	103		64-162		
1234678-HpCDD	0.173	J	0.0178	5.00	ng/kg	101		70-140		
OCDD	0.359	J	0.0192	10.0	ng/kg	102		78-144		
2378-TCDF	0.0143	U	0.0143	1.00	ng/kg	106		75-158		
12378-PeCDF	0.0563	J	0.00680	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0781	J	0.00650	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0612	J	0.00920	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0458	J	0.00780	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0821	J	0.00970	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0520	J	0.00820	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.0881	J	0.00860	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0487	J	0.0126	5.00	ng/kg	103		78-138		
OCDF	0.148	J	0.0212	10.0	ng/kg	103		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244256
Reported: 05/10/11 at 10:17 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11123162401B	Sample number(s): 6270791-6270792					BKG: P268204			
Moisture Content by 160.3						15.0	14.9	1	20
Batch number: 11122003	Sample number(s): 6270791-6270792 UNSPK: P259105								
2378-TCDD	98	98	67-158	1	25				
12378-PeCDD	101	102	70-142	1	25				
123478-HxCDD	103	103	70-164	1	25				
123678-HxCDD	102	102	76-134	1	25				
123789-HxCDD	101	100	64-162	0	25				
1234678-HpCDD	102	100	70-140	1	25				
OCDD	100	97	78-144	3	25				
2378-TCDF	104	105	75-158	2	25				
12378-PeCDF	100	101	80-134	1	25				
23478-PeCDF	101	103	68-160	2	25				
123478-HxCDF	102	103	72-134	0	25				
123678-HxCDF	101	100	84-130	1	25				
123789-HxCDF	100	101	78-130	1	25				
234678-HxCDF	103	102	70-156	1	25				
1234678-HpCDF	102	101	82-122	1	25				
1234789-HpCDF	104	102	78-138	2	25				
OCDF	103	101	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11122001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6270793	74	65	64	66	72	76
Blank	71	61	63	65	67	65
OPR	79	67	76	77	75	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6270793	60	59	48	86	63	68
Blank	56	52	40	93	60	64
OPR	65	58	46	88	67	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6270793	67	71	63	53	75	66

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244256
Reported: 05/10/11 at 10:17 PM

Surrogate Quality Control

Blank	64	65	55	42	73	61
OPR	74	75	63	49	79	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11122003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6270791	73	70	70	81	74	71
6270792	71	66	68	74	70	68
Blank	81	80	80	87	85	82
MS	73	74	60	68	80	80
MSD	68	70	72	78	76	71
OPR	72	71	68	73	78	78
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6270791	92	63	58	82	74	81
6270792	82	67	61	77	70	76
Blank	98	78	75	97	85	93
MS	78	72	71	84	77	85
MSD	85	62	54	81	73	81
OPR	83	69	65	86	74	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6270791	79	81	78	74	67	77
6270792	74	77	75	72	66	73
Blank	92	92	92	90	74	83
MS	86	85	81	79	70	78
MSD	80	80	77	73	65	74
OPR	82	85	81	75	67	74
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1244256 6270791-93

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP § Moisture by EPA 160.3 will be performed on one in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8550 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B §	1,4-Dioxane EPA 8260SIM §	TPH-GRO EPA 8015B §	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																								
SL-032-SA8N-SB-4.5	04.27.11	1515	SOIL	NONE	5-Encores												X	X	X										
SL-032-SA8N-SB-4.0-5.0	04.27.11	1519	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X	X						X									
SL-032-SA8N-SB-9.5	04.27.11	1523	SOIL	NONE	1-Encore														X										
SL-032-SA8N-SB-9.0-10.0	04.27.11	1526	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X							X									
FB07-SA8N-QC-042711	04.27.11	1330	WATER	NONE	12-1L amber bottles			X	X	X					X	X				X			X	X		X			Lot#A032-14
FB07-SA8N-QC-042711	04.27.11	1330	WATER	HCl	11-40mL VOA vials												X	X	X									X	
FB07-SA8N-QC-042711	04.27.11	1330	WATER	NONE	1-500mL poly		X				X	X	X																
FB07-SA8N-QC-042711	04.27.11	1330	WATER	HNO3	1-500mL poly	X																							
FB07-SA8N-QC-042711	04.27.11	1330	WATER	NONE	4-40mL Vials																X						X		
FB07-SA8N-QC-042711	04.27.11	1330	WATER	NONE	1-250mL galss																	X							
FB07-SA8N-QC-042711	04.27.11	1330	WATER	NaOH	1-500mL poly																				X				
TB-042711	04.27.11	0800	WATER	NONE	4-40 mL vials												X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/27/2011 / 1700		Received for Laboratory by: (Signature)																										Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 4/28/11 0930		Airbill No.(s) 8695 1441 7571, 7582																										

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 26, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/03/2011
Group Number: 1244822
SDG: DX077
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-012-SA8N-SB-4.0-5.0 Soil	6273949
SL-022-SA8N-SB-4.0-5.0 Soil	6273950
SL-022-SA8N-SB-9.0-10.0 Soil	6273951
SL-050-SA8N-SB-4.0-5.0 Soil	6273952
SL-050-SA8N-SB-9.0-10.0 Soil	6273953
SL-023-SA8N-SB-4.0-5.0 Soil	6273954
SL-023-SA8N-SB-9.0-10.0 Soil	6273955

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-012-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273949
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL012 SDG#: DX077-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273949
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL012 SDG#: DX077-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0191	U	0.0191	1.17	1
11031	12378-PeCDD	40321-76-4	0.0500	JBQ	0.0199	5.85	1
11031	123478-HxCDD	39227-28-6	0.0240	JBQ	0.0193	5.85	1
11031	123678-HxCDD	57653-85-7	0.112	JBQ	0.0199	5.85	1
11031	123789-HxCDD	19408-74-3	0.189	JB	0.0190	5.85	1
11031	1234678-HpCDD	35822-46-9	0.275	JBQ	0.0271	5.85	1
11031	OCDD	3268-87-9	0.670	JBQ	0.0344	11.7	1
11031	2378-TCDF	51207-31-9	0.0161	U	0.0161	1.17	1
11031	12378-PeCDF	57117-41-6	0.0411	JBQ	0.00972	5.85	1
11031	23478-PeCDF	57117-31-4	0.0678	JBQ	0.0104	5.85	1
11031	123478-HxCDF	70648-26-9	0.0416	JBQ	0.0169	5.85	1
11031	123678-HxCDF	57117-44-9	0.0354	JBQ	0.0150	5.85	1
11031	123789-HxCDF	72918-21-9	0.287	JB	0.0201	5.85	1
11031	234678-HxCDF	60851-34-5	0.0594	JBQ	0.0161	5.85	1
11031	1234678-HpCDF	67562-39-4	0.127	JBQ	0.0136	5.85	1
11031	1234789-HpCDF	55673-89-7	0.0449	JB	0.0232	5.85	1
11031	OCDF	39001-02-0	0.141	JB	0.0360	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	60	24 - 185
13C12-23478-PeCDF	52	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	55	28 - 136
13C12-123789-HxCDF	49	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273949
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL012 SDG#: DX077-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273949
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL012 SDG#: DX077-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 13:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401A	05/25/2011 18:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273950
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0224 SDG#: DX077-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273950
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0224 SDG#: DX077-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0142	U	0.0142	1.11	1
11031	12378-PeCDD	40321-76-4	0.0354	JB	0.0133	5.56	1
11031	123478-HxCDD	39227-28-6	0.0138	U	0.0138	5.56	1
11031	123678-HxCDD	57653-85-7	0.0897	JB	0.0144	5.56	1
11031	123789-HxCDD	19408-74-3	0.163	JB	0.0135	5.56	1
11031	1234678-HpCDD	35822-46-9	0.305	JB	0.0167	5.56	1
11031	OCDD	3268-87-9	0.992	JB	0.0257	11.1	1
11031	2378-TCDF	51207-31-9	0.0152	U	0.0152	1.11	1
11031	12378-PeCDF	57117-41-6	0.0788	JBQ	0.00758	5.56	1
11031	23478-PeCDF	57117-31-4	0.0584	JB	0.00840	5.56	1
11031	123478-HxCDF	70648-26-9	0.0453	JB	0.0134	5.56	1
11031	123678-HxCDF	57117-44-9	0.0252	JBQ	0.0103	5.56	1
11031	123789-HxCDF	72918-21-9	0.300	JB	0.0163	5.56	1
11031	234678-HxCDF	60851-34-5	0.0621	JB	0.0119	5.56	1
11031	1234678-HpCDF	67562-39-4	0.125	JBQ	0.00805	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0493	JBQ	0.0187	5.56	1
11031	OCDF	39001-02-0	0.158	JBQ	0.0265	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-022-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273950
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0224 SDG#: DX077-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-022-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273950
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0224 SDG#: DX077-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 14:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401A	05/25/2011 18:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-022-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273951
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:15

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0229 SDG#: DX077-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273951
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:15

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0229 SDG#: DX077-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0162 U	0.0162	1.17	1
11031	12378-PeCDD	40321-76-4	0.0734 JBQ	0.0162	5.85	1
11031	123478-HxCDD	39227-28-6	0.0328 JBQ	0.0155	5.85	1
11031	123678-HxCDD	57653-85-7	0.0652 JBQ	0.0160	5.85	1
11031	123789-HxCDD	19408-74-3	0.0538 JBQ	0.0153	5.85	1
11031	1234678-HpCDD	35822-46-9	0.563 JB	0.0282	5.85	1
11031	OCDD	3268-87-9	3.07 JB	0.0386	11.7	1
11031	2378-TCDF	51207-31-9	0.0203 U	0.0203	1.17	1
11031	12378-PeCDF	57117-41-6	0.124 JBQ	0.00918	5.85	1
11031	23478-PeCDF	57117-31-4	0.113 JB	0.0106	5.85	1
11031	123478-HxCDF	70648-26-9	0.0998 JB	0.0138	5.85	1
11031	123678-HxCDF	57117-44-9	0.0882 JB	0.0108	5.85	1
11031	123789-HxCDF	72918-21-9	0.0576 JBQ	0.0172	5.85	1
11031	234678-HxCDF	60851-34-5	0.0981 JBQ	0.0123	5.85	1
11031	1234678-HpCDF	67562-39-4	0.185 JBQ	0.00942	5.85	1
11031	1234789-HpCDF	55673-89-7	0.0573 JB	0.0193	5.85	1
11031	OCDF	39001-02-0	0.302 JB	0.0340	11.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	53	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	55	28 - 136
13C12-123789-HxCDF	47	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-022-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273951
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:15

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0229 SDG#: DX077-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273951
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:15

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0229 SDG#: DX077-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 15:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401A	05/25/2011 18:59	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-050-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273952
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0504 SDG#: DX077-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273952
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0504 SDG#: DX077-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0367	JBQ	0.0130	1.14	1
11031	12378-PeCDD	40321-76-4	0.148	JB	0.0145	5.72	1
11031	123478-HxCDD	39227-28-6	0.0825	JB	0.0162	5.72	1
11031	123678-HxCDD	57653-85-7	0.192	JB	0.0166	5.72	1
11031	123789-HxCDD	19408-74-3	0.261	JB	0.0162	5.72	1
11031	1234678-HpCDD	35822-46-9	0.303	JB	0.0153	5.72	1
11031	OCDD	3268-87-9	0.991	JB	0.0220	11.4	1
11031	2378-TCDF	51207-31-9	0.0521	J	0.0119	1.14	1
11031	12378-PeCDF	57117-41-6	0.222	JB	0.00809	5.72	1
11031	23478-PeCDF	57117-31-4	0.181	JB	0.00916	5.72	1
11031	123478-HxCDF	70648-26-9	0.144	JB	0.0162	5.72	1
11031	123678-HxCDF	57117-44-9	0.136	JB	0.0133	5.72	1
11031	123789-HxCDF	72918-21-9	0.359	JB	0.0205	5.72	1
11031	234678-HxCDF	60851-34-5	0.134	JB	0.0152	5.72	1
11031	1234678-HpCDF	67562-39-4	0.164	JB	0.00761	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0680	JB	0.0153	5.72	1
11031	OCDF	39001-02-0	0.182	JB	0.0195	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273952
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0504 SDG#: DX077-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273952
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0504 SDG#: DX077-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 16:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273953
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0509 SDG#: DX077-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273953
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0509 SDG#: DX077-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0622 JBQ	0.0143	1.18	1
11031	12378-PeCDD	40321-76-4	0.172 JBQ	0.0140	5.90	1
11031	123478-HxCDD	39227-28-6	0.0727 JBQ	0.0139	5.90	1
11031	123678-HxCDD	57653-85-7	0.0691 JBQ	0.0143	5.90	1
11031	123789-HxCDD	19408-74-3	0.0791 JB	0.0138	5.90	1
11031	1234678-HpCDD	35822-46-9	0.216 JB	0.0153	5.90	1
11031	OCDD	3268-87-9	0.467 JB	0.0190	11.8	1
11031	2378-TCDF	51207-31-9	0.0575 J	0.0120	1.18	1
11031	12378-PeCDF	57117-41-6	0.214 JB	0.00796	5.90	1
11031	23478-PeCDF	57117-31-4	0.221 JB	0.00926	5.90	1
11031	123478-HxCDF	70648-26-9	0.179 JB	0.0150	5.90	1
11031	123678-HxCDF	57117-44-9	0.120 JB	0.0114	5.90	1
11031	123789-HxCDF	72918-21-9	0.139 JB	0.0185	5.90	1
11031	234678-HxCDF	60851-34-5	0.109 JBQ	0.0132	5.90	1
11031	1234678-HpCDF	67562-39-4	0.148 JB	0.00701	5.90	1
11031	1234789-HpCDF	55673-89-7	0.0766 JB	0.0179	5.90	1
11031	OCDF	39001-02-0	0.172 JB	0.0291	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	51	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	48	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273953
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0509 SDG#: DX077-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273953
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0509 SDG#: DX077-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 17:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-023-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273954
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0234 SDG#: DX077-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273954
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0234 SDG#: DX077-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0615 JBQ	0.0142	1.18	1
11031	12378-PeCDD	40321-76-4	0.0938 JBQ	0.0163	5.89	1
11031	123478-HxCDD	39227-28-6	0.0649 JBQ	0.0265	5.89	1
11031	123678-HxCDD	57653-85-7	0.139 JBQ	0.0272	5.89	1
11031	123789-HxCDD	19408-74-3	0.224 JB	0.0253	5.89	1
11031	1234678-HpCDD	35822-46-9	0.462 JB	0.0424	5.89	1
11031	OCDD	3268-87-9	1.66 JB	0.0370	11.8	1
11031	2378-TCDF	51207-31-9	0.0180 J	0.0133	1.18	1
11031	12378-PeCDF	57117-41-6	0.137 JB	0.00781	5.89	1
11031	23478-PeCDF	57117-31-4	0.129 JB	0.00911	5.89	1
11031	123478-HxCDF	70648-26-9	0.0918 JBQ	0.0226	5.89	1
11031	123678-HxCDF	57117-44-9	0.0916 JB	0.0167	5.89	1
11031	123789-HxCDF	72918-21-9	0.324 JB	0.0282	5.89	1
11031	234678-HxCDF	60851-34-5	0.105 JBQ	0.0202	5.89	1
11031	1234678-HpCDF	67562-39-4	0.201 JB	0.0147	5.89	1
11031	1234789-HpCDF	55673-89-7	0.132 JB	0.0414	5.89	1
11031	OCDF	39001-02-0	0.280 JB	0.0540	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	55	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	48	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	40	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-023-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273954
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0234 SDG#: DX077-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-023-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273954
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0234 SDG#: DX077-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 21:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-023-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-9.0-10.0

LLI Sample # SW 6273955
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0239 SDG#: DX077-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-9.0-10.0

LLI Sample # SW 6273955
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0239 SDG#: DX077-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0339	JBQ	0.0157	1.18	1
11031	12378-PeCDD	40321-76-4	0.0649	JB	0.0167	5.90	1
11031	123478-HxCDD	39227-28-6	0.0923	JBQ	0.0285	5.90	1
11031	123678-HxCDD	57653-85-7	0.211	JB	0.0294	5.90	1
11031	123789-HxCDD	19408-74-3	0.140	JB	0.0281	5.90	1
11031	1234678-HpCDD	35822-46-9	3.65	JB	0.0427	5.90	1
11031	OCDD	3268-87-9	29.5	B	0.0383	11.8	1
11031	2378-TCDF	51207-31-9	0.0209	U	0.0209	1.18	1
11031	12378-PeCDF	57117-41-6	0.0565	JBQ	0.00895	5.90	1
11031	23478-PeCDF	57117-31-4	0.0821	JB	0.0104	5.90	1
11031	123478-HxCDF	70648-26-9	0.0814	JBQ	0.0187	5.90	1
11031	123678-HxCDF	57117-44-9	0.0723	JB	0.0151	5.90	1
11031	123789-HxCDF	72918-21-9	0.0996	JB	0.0250	5.90	1
11031	234678-HxCDF	60851-34-5	0.103	JB	0.0174	5.90	1
11031	1234678-HpCDF	67562-39-4	0.471	JB	0.0160	5.90	1
11031	1234789-HpCDF	55673-89-7	0.105	JBQ	0.0407	5.90	1
11031	OCDF	39001-02-0	0.866	JBQ	0.0502	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	47	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-023-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-9.0-10.0

LLI Sample # SW 6273955
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0239 SDG#: DX077-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-023-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-9.0-10.0

LLI Sample # SW 6273955
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0239 SDG#: DX077-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 22:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244822
Reported: 05/26/11 at 08:53 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11133162402A	Sample number(s): 6273952-6273955								
Moisture Content by 160.3					100		80-120		
Batch number: 11145162401A	Sample number(s): 6273949-6273951								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11125001	Sample number(s): 6273949-6273955								
2378-TCDD	0.0302 J	0.0160	1.00	ng/kg	94		67-158		
12378-PeCDD	0.0388 J	0.0140	5.00	ng/kg	98		70-142		
123478-HxCDD	0.0157 J	0.0134	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0351 J	0.0142	5.00	ng/kg	97		76-134		
123789-HxCDD	0.0315 J	0.0135	5.00	ng/kg	94		64-162		
1234678-HpCDD	0.205 J	0.0213	5.00	ng/kg	97		70-140		
OCDD	0.439 J	0.0212	10.0	ng/kg	96		78-144		
2378-TCDF	0.0137 U	0.0137	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0393 J	0.00790	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0837 J	0.00840	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0841 J	0.0151	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0651 J	0.0123	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0834 J	0.0172	5.00	ng/kg	96		78-130		
234678-HxCDF	0.104 J	0.0140	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.236 J	0.00990	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0899 J	0.0209	5.00	ng/kg	98		78-138		
OCDF	0.285 J	0.0397	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11133162402A	Sample number(s): 6273952-6273955					BKG: P275761			
Moisture Content by 160.3						14.7	13.0	13	20
Batch number: 11145162401A	Sample number(s): 6273949-6273951					BKG: P273942			
Moisture Content by 160.3						14.3	13.9	3	20
Batch number: 11125001	Sample number(s): 6273949-6273955					UNSPK: P267488			
2378-TCDD	92	92	67-158	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244822
Reported: 05/26/11 at 08:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	95	96	70-142	1	25				
123478-HxCDD	96	95	70-164	1	25				
123678-HxCDD	97	94	76-134	3	25				
123789-HxCDD	95	94	64-162	1	25				
1234678-HpCDD	94	94	70-140	0	25				
OCDD	95	95	78-144	1	25				
2378-TCDF	99	98	75-158	1	25				
12378-PeCDF	94	92	80-134	3	25				
23478-PeCDF	95	93	68-160	1	25				
123478-HxCDF	96	95	72-134	1	25				
123678-HxCDF	95	94	84-130	1	25				
123789-HxCDF	95	95	78-130	0	25				
234678-HxCDF	97	96	70-156	1	25				
1234678-HpCDF	94	95	82-122	0	25				
1234789-HpCDF	97	95	78-138	2	25				
OCDF	97	97	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11125001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6273949	63	52	54	61	55	49
6273950	76	66	65	81	70	59
6273951	62	53	52	63	55	47
6273952	72	61	61	72	63	53
6273953	65	56	53	69	59	48
6273954	66	55	55	70	59	48
6273955	66	59	58	73	61	47
Blank	66	63	64	77	68	61
MS	67	64	67	75	68	62
MSD	66	61	65	72	67	67
OPR	48	43	45	50	46	43
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6273949	72	46	42	69	61	66
6273950	105	55	51	88	82	92
6273951	77	44	39	72	62	69
6273952	93	52	47	82	73	78
6273953	93	43	37	76	71	76
6273954	93	40	34	77	67	75
6273955	96	46	39	72	72	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244822
Reported: 05/26/11 at 08:53 AM

Surrogate Quality Control

Blank	101	55	49	89	73	81
MS	86	61	58	76	70	77
MSD	85	58	52	75	68	77
OPR	58	42	39	59	47	53
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6273949	66	66	64	60	55	60
6273950	88	90	89	86	61	79
6273951	67	68	66	61	54	64
6273952	76	76	76	74	61	72
6273953	77	77	76	72	51	69
6273954	74	75	74	69	54	67
6273955	77	78	78	74	55	73
Blank	81	81	82	79	57	70
MS	75	75	76	75	63	70
MSD	74	76	74	70	59	68
OPR	51	53	51	50	43	46
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1244822 6273949-55

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV CO-LOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: K Bennett

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-012-SA8N-SB-4.5	05.02.11	0910	SOIL	NONE	5-Encores										X	X	X									
SL-012-SA8N-SB-4.0-5.0	05.02.11	0920	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	
SL-022-SA8N-SB-4.5	05.02.11	1205	SOIL	NONE	5-Encores										X	X	X									
SL-022-SA8N-SB-4.0-5.0	05.02.11	1210	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-022-SA8N-SB-9.5	05.02.11	1220	SOIL	NONE	5-Encores										X	X	X									
SL-022-SA8N-SB-9.0-10.0	05.02.11	1215	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	
SL-050-SA8N-SB-4.5	05.02.11	1040	SOIL	NONE	4-Encores										X	X										
SL-050-SA8N-SB-4.0-5.0	05.02.11	1045	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X												X	
SL-050-SA8N-SB-9.0-10.0	05.02.11	1050	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X												X	
SL-023-SA8N-SB-4.5	05.02.11	1540	SOIL	NONE	4-Encores										X	X										
SL-023-SA8N-SB-4.0-5.0	05.02.11	1545	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-023-SA8N-SB-9.0-10.0	05.02.11	1550	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
TB-050211	05.02.11	0800	SOIL	NONE	4-40 mL vials										X	X	X									

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	05/02/2011 / 1700	[signature] 5/3/11	1035
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1441 7652, 7663	5/3/11

Laboratory:
Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/09/2011
Group Number: 1246089
SDG: DX065
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-222-SA5A-SB-3.5-4.5 Soil	6281729
SL-222-SA5A-SB-3.5-4.5MS Soil	6281730
SL-222-SA5A-SB-3.5-4.5MSD Soil	6281731

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281729
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-222-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281729
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	274	B	0.122	5.32	1
11031	1234678-HpCDF	67562-39-4	109	B	0.0579	5.32	1
11031	1234789-HpCDF	55673-89-7	18.8	B	0.0674	5.32	1
11031	123478-HxCDD	39227-28-6	7.75	B	0.0519	5.32	1
11031	123478-HxCDF	70648-26-9	30.4	B	0.0621	5.32	1
11031	123678-HxCDD	57653-85-7	18.2	B	0.0511	5.32	1
11031	123678-HxCDF	57117-44-9	21.0	B	0.0621	5.32	1
11031	123789-HxCDD	19408-74-3	14.1	B	0.0505	5.32	1
11031	123789-HxCDF	72918-21-9	10.2	B	0.0687	5.32	1
11031	12378-PeCDD	40321-76-4	6.42	B	0.0704	5.32	1
11031	12378-PeCDF	57117-41-6	15.7	B	0.0424	5.32	1
11031	234678-HxCDF	60851-34-5	25.5	B	0.0622	5.32	1
11031	23478-PeCDF	57117-31-4	17.5	B	0.0392	5.32	1
11031	2378-TCDD	1746-01-6	1.35	B	0.0903	1.06	1
11031	2378-TCDF	51207-31-9	9.92		0.130	1.06	1
11031	OCDD	3268-87-9	1,020	B	0.0778	10.6	1
11031	OCDF	39001-02-0	112	B	0.0468	10.6	1
11650	2378-TCDF-Conf	51207-31-9	10.9	B	0.0489	1.06	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-2378-TCDF-Conf	84	24 - 169
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281729
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281729
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21BKG

General Sample Comments

State of California Lab Certification No. 2501
This sample was originally submitted to the laboratory on 3/31/11 at 09:15. We received authorization for further testing on 5/09/11.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/19/2011 20:20	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11137001	05/25/2011 00:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281730
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281730
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	358	B	0.128	5.24	1
11031	1234678-HpCDF	67562-39-4	189	B	0.0797	5.24	1
11031	1234789-HpCDF	55673-89-7	114	B	0.0986	5.24	1
11031	123478-HxCDD	39227-28-6	105	B	0.0807	5.24	1
11031	123478-HxCDF	70648-26-9	125	B	0.0806	5.24	1
11031	123678-HxCDD	57653-85-7	113	B	0.0818	5.24	1
11031	123678-HxCDF	57117-44-9	118	B	0.0789	5.24	1
11031	123789-HxCDD	19408-74-3	110	B	0.0788	5.24	1
11031	123789-HxCDF	72918-21-9	110	B	0.0893	5.24	1
11031	12378-PeCDD	40321-76-4	108	B	0.113	5.24	1
11031	12378-PeCDF	57117-41-6	110	B	0.0524	5.24	1
11031	234678-HxCDF	60851-34-5	123	B	0.0785	5.24	1
11031	23478-PeCDF	57117-31-4	111	B	0.0489	5.24	1
11031	2378-TCDD	1746-01-6	20.8	B	0.118	1.05	1
11031	2378-TCDF	51207-31-9	28.8		0.156	1.05	1
11031	OCDD	3268-87-9	1,150	B	0.130	10.5	1
11031	OCDF	39001-02-0	290	B	0.0972	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281730
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281730
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MS

General Sample Comments

State of California Lab Certification No. 2501
This sample was originally submitted to the laboratory on 3/31/11 at 09:15. We received authorization for further testing on 5/09/11.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/19/2011 21:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281731
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MSD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281731
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MSD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	386	B	0.141	5.43	1
11031	1234678-HpCDF	67562-39-4	209	B	0.0829	5.43	1
11031	1234789-HpCDF	55673-89-7	121	B	0.100	5.43	1
11031	123478-HxCDD	39227-28-6	114	B	0.107	5.43	1
11031	123478-HxCDF	70648-26-9	140	B	0.0975	5.43	1
11031	123678-HxCDD	57653-85-7	122	B	0.105	5.43	1
11031	123678-HxCDF	57117-44-9	124	B	0.0901	5.43	1
11031	123789-HxCDD	19408-74-3	116	B	0.101	5.43	1
11031	123789-HxCDF	72918-21-9	114	B	0.115	5.43	1
11031	12378-PeCDD	40321-76-4	114	B	0.106	5.43	1
11031	12378-PeCDF	57117-41-6	119	B	0.0579	5.43	1
11031	234678-HxCDF	60851-34-5	134	B	0.0931	5.43	1
11031	23478-PeCDF	57117-31-4	119	B	0.0548	5.43	1
11031	2378-TCDD	1746-01-6	21.4	B	0.104	1.09	1
11031	2378-TCDF	51207-31-9	31.3		0.150	1.09	1
11031	OCDD	3268-87-9	1,340	B	0.121	10.9	1
11031	OCDF	39001-02-0	312	B	0.0886	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

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Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-222-SA5A-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-222-SA5A-SB-3.5-4.5

LLI Sample # SW 6281731
LLI Group # 1246089
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/30/2011 09:57

Submitted: 05/09/2011 16:30
Reported: 06/01/2011 07:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DR222 SDG#: DX065-21MSD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Chantilly VA 20151

DR222 SDG#: DX065-21MSD*

General Sample Comments

State of California Lab Certification No. 2501
This sample was originally submitted to the laboratory on 3/31/11 at 09:15. We received authorization for further testing on 5/09/11.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/19/2011 22:13	Nelson H Risser	1
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11625	Moisture Content by 160.3	EPA 160.3 modified	1	11102162401A	04/12/2011 17:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246089
Reported: 06/01/11 at 07:08 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11102162401A	Sample number(s): 6281729-6281731								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11137001	Sample number(s): 6281729-6281731								
2378-TCDF-Conf	0.0193 J	0.0182	1.00	ng/kg					
2378-TCDD	0.0449 J	0.0174	1.00	ng/kg	95		67-158		
2378-TCDF	0.0193 U	0.0193	1.00	ng/kg	103		75-158		
12378-PeCDD	0.0632 J	0.0228	5.00	ng/kg	95		70-142		
12378-PeCDF	0.0253 J	0.0128	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0780 J	0.0121	5.00	ng/kg	91		68-160		
123478-HxCDD	0.0292 J	0.0186	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0513 J	0.0190	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0377 J	0.0186	5.00	ng/kg	95		64-162		
123478-HxCDF	0.0716 J	0.0143	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0503 J	0.0125	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0917 J	0.0156	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0914 J	0.0127	5.00	ng/kg	98		70-156		
1234678-HpCDD	0.254 J	0.0262	5.00	ng/kg	96		70-140		
1234678-HpCDF	0.188 J	0.0100	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.106 J	0.0179	5.00	ng/kg	96		78-138		
OCDD	0.399 J	0.0224	10.0	ng/kg	95		78-144		
OCDF	0.292 J	0.0360	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11102162401A	Sample number(s): 6281729-6281731 BKG: P242769								
Moisture Content by 160.3						13.3	13.7	3	20
Batch number: 11137001	Sample number(s): 6281729-6281731 UNSPK: 6281729								
2378-TCDD	93	93	67-158	3	25				
2378-TCDF	90	98	75-158	8	25				
12378-PeCDD	97	99	70-142	5	25				
12378-PeCDF	91	95	80-134	7	25				
23478-PeCDF	89	93	68-160	7	25				
123478-HxCDD	93	98	70-164	8	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246089
Reported: 06/01/11 at 07:08 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
123678-HxCDD	91	96	76-134	8	25				
123789-HxCDD	91	94	64-162	5	25				
123478-HxCDF	91	100	72-134	11	25				
123678-HxCDF	92	95	84-130	5	25				
123789-HxCDF	95	95	78-130	3	25				
234678-HxCDF	93	100	70-156	8	25				
1234678-HpCDD	80	103	70-140	8	25				
1234678-HpCDF	76*	93	82-122	10	25				
1234789-HpCDF	91	94	78-138	6	25				
OCDD	61 (2)	146 (2)	78-144	15	25				
OCDF	85	92	63-170	7	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11137001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6281729	84	85	78	78	84	85
6281730	82	83	80	79	83	84
6281731	81	82	82	82	81	79
Blank	83	89	86	96	90	91
MS	82	83	80	79	83	84
MSD	81	82	82	82	81	79
OPR	72	74	74	82	76	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6281729	78	83	78	94	85	81
6281730	77	79	69	96	82	83
6281731	76	76	68	94	81	81
Blank	113	84	82	107	92	96
MS	77	79	69	96	82	83
MSD	76	76	68	94	81	81
OPR	96	67	65	95	78	81
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6281729	83	85	83	80	85	85
6281730	83	85	81	72	83	82
6281731	80	83	78	70	83	82
Blank	96	96	100	102	80	92

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246089
Reported: 06/01/11 at 07:08 AM

Surrogate Quality Control

MS	83	85	81	72	83	82
MSD	80	83	78	70	83	82
OPR	82	82	82	82	68	79
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6281729	84
6281730	
6281731	
Blank	77
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1239812 6244306-76
1246089 6281729-31

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For low chrome products, lab will reanalyze pH and CrVI § Modified by EPA 1613, using perfluorinated cut in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & Perchlorate EPA 6850	*PCBs/PCTs EPA 8082	*Chlorinated Herbicides EPA 8151A	*Perchlorate EPA 314.0	*Total Cyanide EPA 7196A	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs EPA 8260B §	1,4-Dioxane EPA 8260B §	TPH-GRO EPA 8015B §	*TPH-DRO EPA 8015B Mod.	*Nitrate EPA 300.0	*Perchlorate EPA 6850A	*Hexavalent Chromium EPA 7196A	*Sulfide EPA 9034	*Cyanide EPA 9012B	*Total Organic Carbon EPA 9060A	*Nitrate EPA 353.2		
Sampler's Signature:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
DUP-11-SA5A-QC-033011	03.30.11	1002	SOIL	NONE	5-Encores/4-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
DUP-12-SA5A-QC-033011	03.30.11	1111	SOIL	NONE	4-Encores/2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X											
SL-082-SA5A-SB-4.5	03.30.11	1556	SOIL	NONE	5-Encores										X	X	X										
SL-082-SA5A-SB-4.0-5.0	03.30.11	1603	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X		
SL-083-SA5A-SB-4.5	03.30.11	1503	SOIL	NONE	5-Encores										X	X	X										
SL-083-SA5A-SB-4.0-5.0	03.30.11	1505	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X		
SL-085-SA5A-SB-9.5	03.30.11	1511	SOIL	NONE	5-Encores										X	X	X										
SL-085-SA5A-SB-9.0-10.0	03.30.11	1513	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X		
SL-090-SA5A-SB-4.5	03.30.11	1100	SOIL	NONE	5-Encores										X	X	X										
SL-090-SA5A-SB-4.0-5.0	03.30.11	1105	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X		
SL-093-SA5A-SB-4.0	03.30.11	1215	SOIL	NONE	5-Encores										X	X	X										
SL-093-SA5A-SB-3.5-4.5	03.30.11	1220	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X		
SL-222-SA5A-SB-4.0MS	03.30.11	0952	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-222-SA5A-SB-3.5-4.5MS	03.30.11	0957	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X		MS/MSD
SL-257-SA5A-SB-3.0	03.30.11	0840	SOIL	NONE	5-Encores										X	X	X										
SL-257-SA5A-SB-2.5-3.5	03.30.11	0845	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X		
TB-033011	03.30.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time: 03/30/2011 / 1705	Received for Laboratory by: (Signature): Barry Herlach 3/31/11 915																									Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s): 8695 1432 4176,4156																									

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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